2011 ANNUAL GROUNDWATER MONITORING REPORT

FORMER JIFFY LUBE FACILITY
6317 NORTHEAST FOURTH PLAIN BOULEVARD
VANCOUVER, WA

SAP CODE	174665
INCIDENT NO.	97807256
ECOLOGY F/S NO.	62389552
VCP NO.	SW1069

Prepared by:
Conestoga-Rovers & Associates

20818 44th Avenue West,
Suite 190
Lynnwood, Washington
U.S.A. 98036

Office: 425-563-6500
Fax: 425-563-6599

web: http:\\www.CRAworld.com

NOVEMBER 11, 2011
REF. NO. 060616 (1)
This report is printed on recycled paper.

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Heather Boys
for Jing Song

Brian Richardson

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TABLE OF CONTENTS

LIST OF FIGURES
(Following Text)

LIST OF TABLES
(Following Text)

LIST OF APPENDICES

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (SOPUS). This annual report includes all monitoring data collected in 2011.

1.1 SITE INFORMATION

Site Address	6317 Northeast fourth Plain Boulevard, Vancouver, WA
Site Use	Former Jiffy Lube Facility
Shell Project Manager	Perry Pineda
CRA Project Manager	Brian Richardson
Lead Agency and Contact	Washington State Department of Ecology (Ecology), Eugene Radcliff
Agency Case No.	62389552
Shell SAP Code:	174665
Shell Incident No.	97807256
VCP No.	SW1069

The most recent agency correspondence on record is from May 21, 2010 from City of Vancouver.

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled monitoring well MW-1 according to the established compliance groundwater monitoring program for this site in the first and second quarter 2011. The second quarter monitoring is the final compliance monitoring event based on the Ecology approved Cleanup Action Plan by URS dated January 27, 2010. No additional groundwater monitoring is necessary since all analytes sampled have been below the laboratory reporting limits or Model Toxics Control Act Method A cleanup levels for the past four quarters.

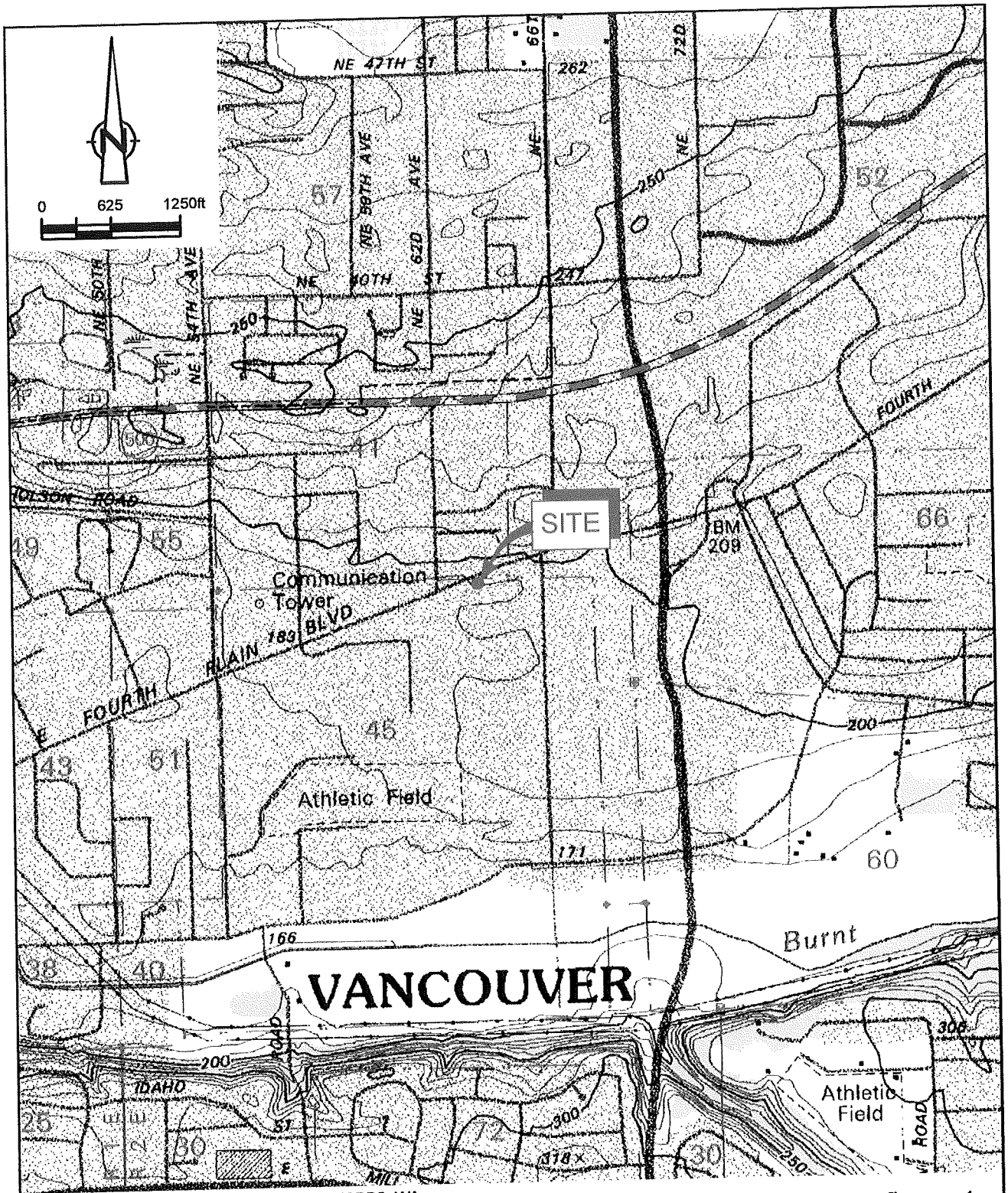
CRA prepared a vicinity map (Figure 1) and depth to groundwater and chemical concentration maps (Figures 2 and 3). CRA prepared Table 1 summarizing groundwater monitoring data and laboratory analytical results. Field forms and the laboratory analytical reports are included as Appendices A and B.

2.2 FINDINGS

Quarter/Date	1st/March 14, 2011
Groundwater Flow Direction	Not contoured
Hydraulic Gradient	N/A
Depth to Water	14.63 feet below top of well casing

Quarter/Date	2nd/June 29, 2011
Groundwater Flow Direction	Not contoured
Hydraulic Gradient	N/A
Depth to Water	16.47 feet below top of well casing

FIGURES



SOURCE: USGS QUADRANGLE MAP: ORCHARDS, WA.

figure 1

VICINITY MAP
FORMER JIFFY LUBE FACILITY
6317 NORTHEAST 4TH PLAIN BOULEVARD
Vancouver, Washington

60616-95(001)GN-WA001 MAR 11/2011

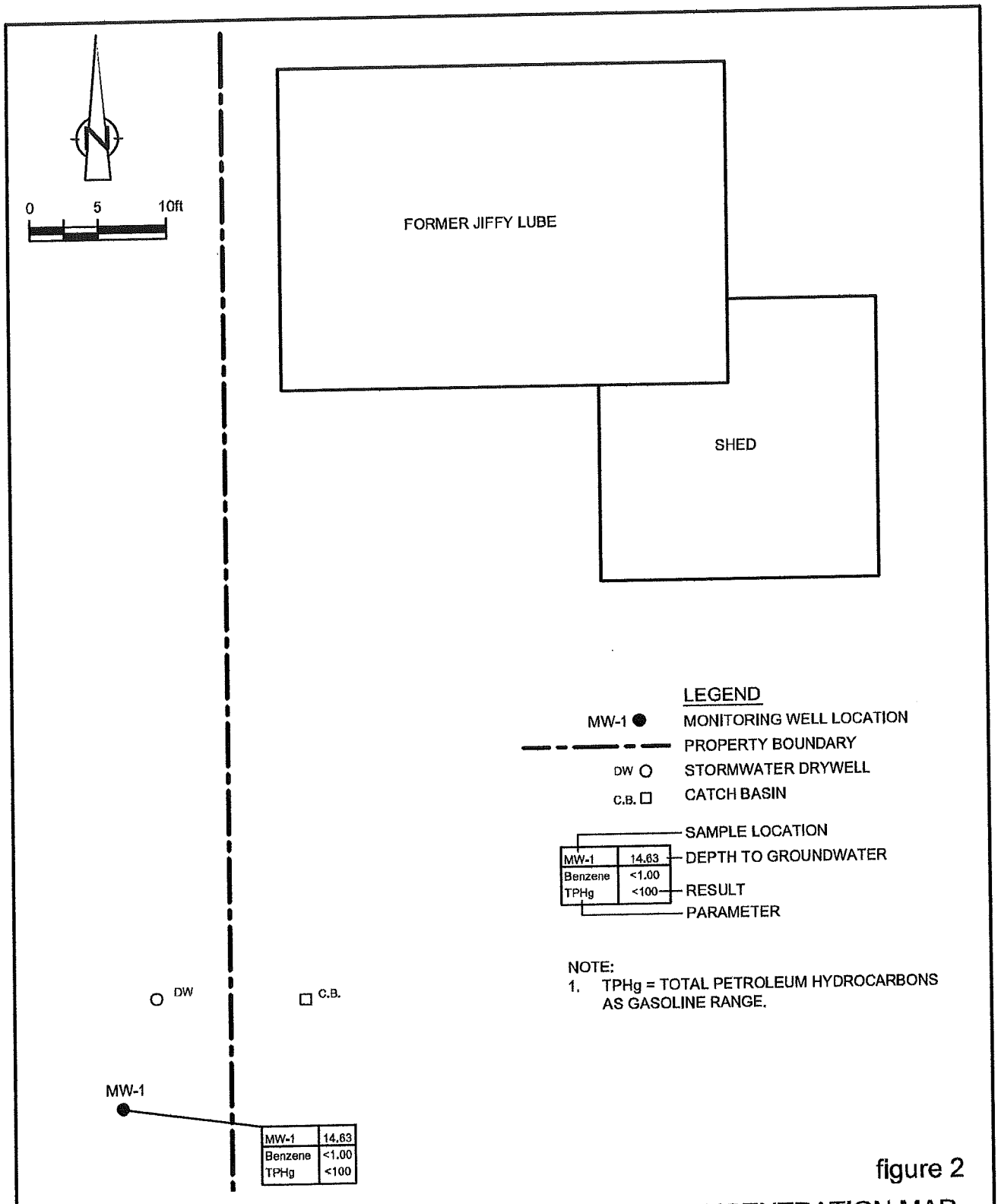


figure 2

DEPTH TO GROUNDWATER AND CHEMCIAL CONCENTRATION MAP - MARCH 14, 2011
FORMER JIFFY LUBE FACILITY
6317 NORTHEAST 4TH PLAIN BOULEVARD
Vancouver, Washington

SOURCE: URS, FIGURE 2, MONITORING WELL LOCATION, DATED DECEMBER 2010.

60616-95(001)GN-WA003 APR 01/2011

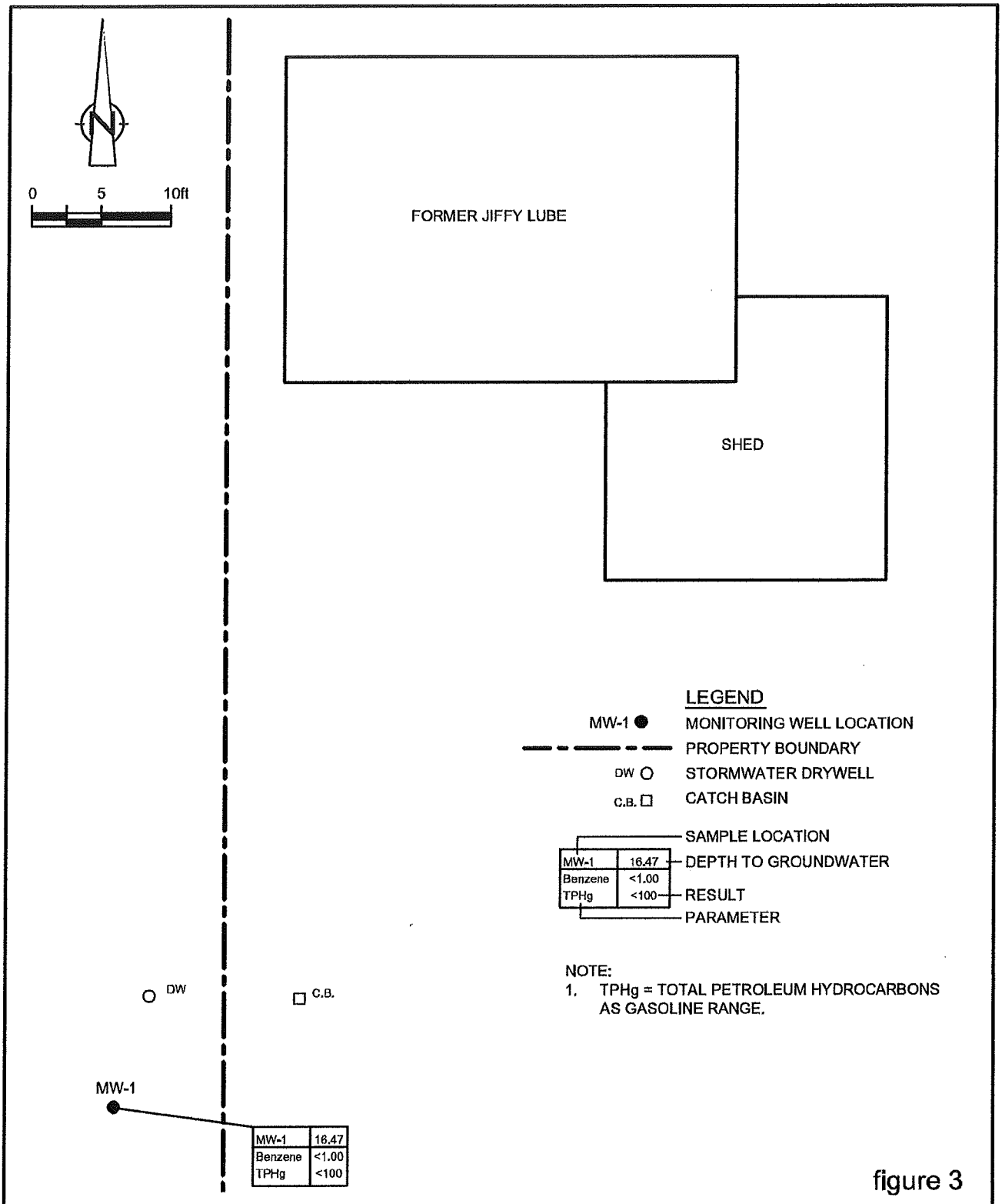


figure 3

DEPTH TO GROUNDWATER AND CHEMICAL CONCENTRATION MAP - JUNE 29, 2011
FORMER JIFFY LUBE FACILITY
6317 NORTHEAST 4TH PLAIN BOULEVARD
Vancouver, Washington

SOURCE: URS, FIGURE 2, MONITORING WELL LOCATION, DATED DECEMBER 2010.

60616-95(001)GN-WA006 NOV 02/2011

TABLES

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA
FORMER JIFFY LUBE FACILITY
6317 NORTHEAST 4TH PLAN BOULEVARD
VANCOUVER, WASHINGTON

Sample ID	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						OXYGENATE	LEAD		Chromium	
					TPHg	TPHd	TPHo	B	T	E	X	EDB	EDC	MTBE	Total	Dissolved	Hexavalent Chromium	Total Chromium
Model Toxics Control Act Method A Cleanup Levels					800/1000	500	500	5	1000	700	1000	0.01	5	20	15	NE		50
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	07/08/10	--	--	--	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<0.01	<0.50	<1.0	3.13	--	--	5.54
MW-1	10/26/10*	--	17.84	--	<80	<95.2	<476	<1.00	<1.00	<1.00	<3.00	<0.01	<1.00	<1.00	<1.00	<1.00	<10	<2
MW-1	03/14/11	--	14.63	--	<100	<96.2	<96.2	<1.00	<1.00	<1.00	<3.00	<0.0051	<1.00	<1.00	<2.00	<2.00	<10.0	<2.00
MW-1	06/29/11	--	16.47	--	<100	<97.1	<243	<1.00	<1.00	<1.00	<3.00	<0.0051	<1.00	<1.00	<2.00	<2.00	<10	<2.00

Notes:

DTW = Depth to Water in feet

GWE = Groundwater Elevation in feet above mean sea level after 3/10/2010; before that, relatvie to arbitrary benchmarks.

GWE = Groundwater Elevation in feet relative to arbitrary benchmarks

TOC = Top of Casing in feet above mean sea level after 3/10/2010; before that, relatvie to arbitrary benchmarks.

MTCA = Model Toxics Control Act

VOCs = Volatile Organic Compounds

Depth to water from top of well casing.

All results are in micrograms per liter (µg/L) unless otherwise indicated.

NE = Not established

TPHg = Total petroleum hydrocarbons as gasoline analyzed by NWTPH-Gx unless otherwised noted. The higher value is based on the assumption that no benzene is present in the groundwater sample. If any detectable amount of benzene is present in the groundwater sample, then the lower TPH-G cleanup level is applicable.

TPHd = Total petroleum hydrocarbons as diesel, analyzed by NWTPH-Dx with Silica Gel Cleanup or WTPH-D unless otherwise noted

TPHo = Total petroleum hydrocarbons as oil, analyzed by NWTPH-Dx with Silica Gel Cleanup or WTPH-D unless otherwise noted

BTEX = Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B unless otherwise noted.

Xylenes = o-xylene + m,p-xylene

EDB = 1,2-Dibromoethane analyzed by EPA Method 8011

EDC = 1,2-Dichloroethane analyzed by EPA Method 8260B

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B

— = Not analyzed

MTCA = Model Toxics Control Act

Concentrations in bold type indicate the analyte was detected above MTCA Method A cleanup levels

* = Indicates the groundwater samples were additionally analyzed for RCRA 8 Metals by EPA Method 6020/7470A, VOCs per EPA Method 8260B, carcinogenic polycyclic aromatic hydrocarbons (cPAHs) analyzed by EPA Method 8270C-SIM; all of the concentrations of these analytes were reported at below the laboratory reporting limits

APPENDIX A

FIELD FORMS

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

- ☐ CALSCIENCE ( )
- ☐ SPL Houston ( )
- ☐ XENCO ( )
- ☑ TEST AMERICA ( )
- ☐ OTHER ( )

Please Check Appropriate Box:

- ☐ ENV. SERVICES
- ☐ MOTIVA SD&CM
- ☐ SHELL PIPELINE
- ☐ MOTIVA RETAIL
- ☑ CONSULTANT
- ☐ OTHER
- ☐ SHELL RETAIL
- ☐ LUBES

Print Bill To Contact Name: Brian Richardson - 060616.2011.01

INCIDENT # (ENV SERVICES): 9 7 8 0 7 2 5 6 ☐ CHECK IF NO INCIDENT # APPLIES

PO #:

SAP #: 1 7 4 6 6 5

DATE: 6/28/11

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE:

ADDRESS: 20735 Belshaw Avenue, Carson, CA 90746

PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King

TELEPHONE: (310) 885-4465 x 108 FAX: (310) 637-5102 EMAIL: lking@blainetech.com

SITE ADDRESS: Street and City: 6317 NE 4th Plain Blvd, Vancouver State: WA GLOBAL ID NO.: NA

EDF DELIVERABLE To (Name, Company, Office Location): CRA, Seattle, WA PHONE NO.: 425-563-6500 EMAIL: Shell-US-LabDataManagement@CRAworld.com CONSULTANT PROJECT NO.: 11062952

SAMPLER NAME(S) (Print): S. Lane

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☒ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

1) Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (http://craiabeddupload.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED

Copy final report to Shell.Lab.Billing@craworld.com, Shell.results@craworld.com, and Shell-US-LabDataManagement@CRAworld.com

Email invoice to Shell.Lab.Billing@craworld.com
See Laboratory PM for WA Dept. of Ecology MTCA Method A cleanup levels for minimum detection limits.

Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)

TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS

	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	NWTPH-Gx	NWTPH-Dx w/Silica Gel Cleanup	BTEX (8260B)	5 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDC (8260B)	EDB (8011)	Total Lead (6020)	PCBs (8082)	PAHs (8070 SIM)	VOCs Full list (8260B)	Pest (8080)	NWTPH-VPH	NWTPH-EPH	Total and Dissolved RCRA 8 Metals (6020/7470A)	Hexavalent Chromium (SM 3500-CrB)	TPH-D	Container PID Readings or Laboratory Notes
GW -	060616	062911	SL	MW-1	0955	WG	X	X		X		15	X	X				X			X	X				X	X	X	

Relinquished by: (Signature) S Lane
Received by: (Signature) Shipped by Fed Ex
Date: 6/30/11 Time: 1700

Relinquished by: (Signature)
Received by: (Signature)
Date: Time:

Relinquished by: (Signature)
Received by: (Signature)
Date: Time:

WELLHEAD INSPECTION FORM

Client: CPA Site: Shell 9780 7256 Date 6/29/11

Job #: 110629-GL2 Technician: GL Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check Indicates deficiency: Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty.)	Tabs stripped (list qty.)	Tabs broken (list qty.)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade	Other (explain in notes)	Well Not Inspected (explain in notes)	Notes (list if cap or lock replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)
MW-1	X														standpipe

Notes:

2 gal Sample

SHELL BILL OF LADING

SOURCE RECORD **BILL OF LADING**
FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT SHELL FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS, IS MADE UP INTO LOADS OF APPROPRIATE SIZE TO BE TRANSPORTED & PROCESSED BY A SHELL APPROVED WASTE HAULER.

The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72ND Ave South, Suite D – 102, Kent, WA 98032. Blaine Tech Services, Inc. is authorized by SHELL OIL COMPANY (SHELL) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the SHELL facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Shell facility to BTS; from one Shell facility to BTS via another Shell facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of SHELL.

This **Source Record BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the SHELL facility described below:

9780 7256 — INCIDENT #
Carol Campagna — Shell Engineer
6317 — street number
4th Plain Blvd — street name
Vancouver — city
— state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	0.5		

added equip. rinse water 1.5
any other adjustments

TOTAL GALS. RECOVERED 2

loaded onto BTS vehicle # 86

BTS event # 110629-SL2 time 1000 date 6/29/11

signature SLR

****

RECEIVED AT BTS Kent — time — date

unloaded by signature

Job Clearance Form

CONTRACTOR INSTRUCTIONS PRIOR TO START OF WORK: 1. Review form, check appropriate boxes, read and sign at the bottom of this form. 2. Inform dealer, manager or site representative of the job to be performed and potential safety concerns and obtain signature.

Station #	Station Address: 6317 4th PlainBlvd, Vancouver		Work Order Number: 110629-SLZ		Date: 6/29/11	
Contractor Company Name: BTS S.Lane	Contractor person in charge (print name): S.Lane	Number of Workers: 1	JSA Reference Number: (if required)	Start Time: 0900	End Time: 1045	Labor: / Travel Time: / Travel Distance:
Problem/Work Description: Sample 1 well						Return Call: yes / no Damage Claim: yes / no

PPE REQUIRED (CHECK AND/OR FILL BLANK SPACE)

- [x] SAFETY VEST
- [ ] PROTECTIVE CLOTHING
- [x] HARD HAT
- [x] GLOVES
- [x] SHOES & BOOTS
- [x] SAFETY GLASSES/GOGGLES
- [ ] HEARING PROTECTION
- [ ] WELDING PPE
- [ ] RESPIRATOR
- [ ] OTHER ____________

Contractor to complete this section below if circumstances on site or specific to this job, may generate additional hazards that are not described in the JSA.

TASK STEP	Hazards not covered by JSA	How to reduce or eliminate risk - include PPE to be Worn

Work documentation requirements — Lower Risk - no JSA required — Medium Risk / Higher Risk tasks - JSA required — Higher Risk - JSA required & appropriate check list completed (see below)

Examples of Higher / Medium tasks:

- [ ] Works at heights: in all cases on open sites - enclosed sites if no JSA present
- [ ] Trenching or excavation related to underground tank / product lines
- [ ] Heavy lifting
- [ ] Work in confined spaces (e.g. tank, interceptor or deep manhole entry)
- [ ] Hot work with risk of product or vapor ignition
- [ ] LPG system degassing, installation or maintenance

This form must be completed for each job and updated and re-signed if circumstances change or additional hazards identified.

SIGN IN

Operating sites: to be signed by the Site Representative

Non-operating sites: to be signed by Contractor Representative only

Contractor representative name	Signature
S.Lane	S.Lane

GENERAL SAFETY CHECKS

- Have all site personnel been informed?
- Has fuel delivery service been informed?
- Is a fuel delivery due?
- Have isolation procedures been agreed - lock out/tag out?
- Are work areas cordoned off to protect workers, site staff & public?
- Other

Site representative name	Signature
I have discussed job clearance form with contractor	
—	—

SIGN OUT

GENERAL SAFETY CHECKS

- Has the work area been left tidy and safe?
- Are site personnel aware of status of work including remaining isolation?
- Are changes to equipment documented and communicated?
- All incidents, near incidents, unsafe situations reported?
- Other

Contractor signature
S.Lane

Site representative name	Signature
I have discussed job clearance form with contractor	
—	—

PARTS - Ordered, Replaced and/or Disposed Of (include model and serial #s as appropriate)

The contractor through its authorized representative shall sign, issue and be solely responsible for all job clearance forms and the obligations arising there under applicable to the work.

This form covers important reminders and is not intended to relieve the contractor from safely performing the work in compliance with all applicable laws and regulations.
The Site Representative may require the contractor to stop work if it appears that the contractor or any of its workers are failing to comply with the requirements in the applicable items of this form or other applicable safety requirements.

WELL GAUGING DATA

Project # 110629-SL2 Date 6/29/11 Client CRA

Site Shell 6317 4th Plain Blvd, Vancouver

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	Notes
MW-1	0926	2					16.47	22.40	↓	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 110629-SL2	Client: CRA Shell 97807256
Sampler: SL	Gauging Date: 6/29/11
Well I.D.: MW-1	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 22.40	Depth to Water (ft.): 16.47
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump
Sampling Method: ~~Dedicated Tubing~~ New Tubing Other ___

Start Purge Time: 0933 Flow Rate: 100 ml/min Pump Depth: 20'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water (ft.)
0936	15.20	6.34	164	19	4.10	44.9	600	16.60
0939	14.85	6.31	164	24	2.38	50.2	900	16.65
0942	14.69	6.31	166	21	2.12	46.5	1200	16.72
0945	14.47	6.30	173	18	2.23	47.3	1500	16.80
0948	14.42	6.28	178	20	2.56	49.0	1800	16.91
0951	14.40	6.27	181	20	2.71	47.7	2100	17.02
0954	14.40	6.27	184	21	2.86	50.2	2400	17.19

Did well dewater? Yes (No) Amount actually evacuated: 2.4 L

Sampling Time: 0955 Sampling Date: 6/29/11

Sample I.D.: GW-060616-062911-SL-MW-1 Laboratory: ~~Kiff~~ (STL) TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

WELL GAUGING DATA

Project # 110314-GL1 Date 3/14/11 Client CRA

Site Shell 6317 NE 4th Plain Blvd, Vancouver

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	1015	2					14.63	22.50	↓	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 110314-SL1	Client: CRA Shell 97807256
Sampler: SL	Gauging Date: 3/14/11
Well I.D.: MW-1	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 22.50	Depth to Water (ft.): 14.67
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump
Sampling Method: Dedicated Tubing ~~New Tubing~~ Other ___

Start Purge Time: 1025 Flow Rate: 300mL/min Pump Depth: 18'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1028	9.89	7.79	157	15	8.23	156.1	900	14.67
1031	9.96	7.41	127	13	8.32	151.7	1800	14.67
1034	9.83	7.11	103	8	8.33	144.1	2700	14.67
1037	9.79	7.07	92	7	8.36	142.4	3600	14.67
1040	9.84	6.98	85	7	8.55	137.6	4500	14.67
1043	9.84	6.87	83	5	8.38	135.1	5400	14.67
1046	9.87	6.86	83	5	8.70	130.4	6300	14.67
1049	9.86	6.86	87	6	8.72	128.2	7200	14.67

Did well dewater? Yes (No) Amount actually evacuated: 7.2L

Sampling Time: 1050 Sampling Date: 3/14/11

Sample I.D.: GW-060616-031411-SL-MW-1 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL Houston (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CH
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER

Print Bill To Contact Name: Brian Richardson - 060616.2011.01

INCIDENT # (ENV SERVICES): 9 7 8 0 7 2 5 6 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 3/14/11

PAGE: 1 of 1

PO #:

SAP #: 1 7 4 6 6 5

SAMPLING COMPANY: Blaine Tech Services

LOG CODE:

SITE ADDRESS: Street and City: 6317 NE 4th Plain Blvd, Vancouver

State: WA

GLOBAL ID NO.: NA

ADDRESS: 2055 Bolshaw Avenue, Carson, CA 90746

EDF DELIVERABLE TO (Name, Company, Office Location): CRA, Seattle, WA

PHONE NO.: 425-563-6500

E-MAIL: Shell-US-LabDataManagement@CRAworld.com

CONSULTANT PROJECT NO.: 110314-GL1

PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King

TELEPHONE: (310) 886-4455 x 108

FAX: (310) 837-5602

E-MAIL: lking@blainetech.com

SAMPLER NAME(S) (Print): G. Lane

CAR USE ONLY:

TURNAROUND TIME (CALENDAR DAYS):
- ☒ STANDARD (14 DAY)
- ☐ 5 DAYS
- ☐ 3 DAYS
- ☐ 2 DAYS
- ☐ 24 HOURS
- ☐ RESULTS NEEDED ON WEEKEND
- ☐ LA - RWQCB REPORT FORMAT
- ☐ LIST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

1) Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (http://cralabedduplload.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

Copy final report to Shell.Lab.Billing@craworld.com, Shell.results@craworld.com, and Shell-US-LabDataManagement@CRAworld.com

Email invoice to Shell.Lab.Billing@craworld.com

See Laboratory PM for WA Dept. of Ecology MTCA Method A cleanup levels for minimum detection limits.

- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED

Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID: PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	PRESERVATIVE: HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	NWTPH-Gx	NWTPH-Dx w/Silica Gel Cleanup	BTEX (8260B)	5 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDC (8260B)	EDB (8011)	Total Lead (6020)	PCBs (8082)	PAHs (8070 SIM)	VOCs Full list (8260B)	Pest (8080)	NWTPH-VPH	NWTPH-EPH	n-Hexane (8071B)	Total and Dissolved RCRA 8 Metals (6020/7470A)	Hexavalent Chromium (SM 3500-Cr B)	TPH-D			TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
GW	060616	031411	GL	MW-1	1050	WG	X	X		X		15	X	X				X			X	X					X	X	X				

Relinquished by: (Signature): G. Lane

Received by: (Signature): shipped by Fed Ex

Date: 3/14/11 Time: 1700

Relinquished by: (Signature)

Received by: (Signature)

Date: Time:

Relinquished by: (Signature)

Received by: (Signature)

Date: Time:

WELLHEAD INSPECTION FORM

Client: CRA Site: Shell 97807256 Date 3/14/11

Job #: 110314-SL1 Technician: SL Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check Indicates deficiency: Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty.)	Tabs stripped (list qty.)	Tabs broken (list qty.)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade	Other (explain in notes)	Well Not Inspected (explain in notes)	Notes (list if cap or lock replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)
MW-1	X														New lock, standpipe

Notes:

SHELL BILL OF LADING

SOURCE RECORD **BILL OF LADING**

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT SHELL FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS, IS MADE UP INTO LOADS OF APPROPRIATE SIZE TO BE TRANSPORTED & PROCESSED BY A SHELL APPROVED WASTE HAULER.

The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72ND Ave South, Suite D – 102, Kent, WA 98032. Blaine Tech Services, Inc. is authorized by SHELL OIL COMPANY (SHELL) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the SHELL facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Shell facility to BTS; from one Shell facility to BTS via another Shell facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of SHELL.

This **Source Record BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the SHELL facility described below:

97807256 — INCIDENT #

Carol Campagna — Shell Engineer

6317 NE 4th Plain Blvd, Vancouver
street number / street name / city / state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	2		

added equip. rinse water 3

any other adjustments

TOTAL GALS. RECOVERED 5

loaded onto BTS vehicle # 86

BTS event # 110314-SL1 time 1115 date 3/14/11

signature SLM

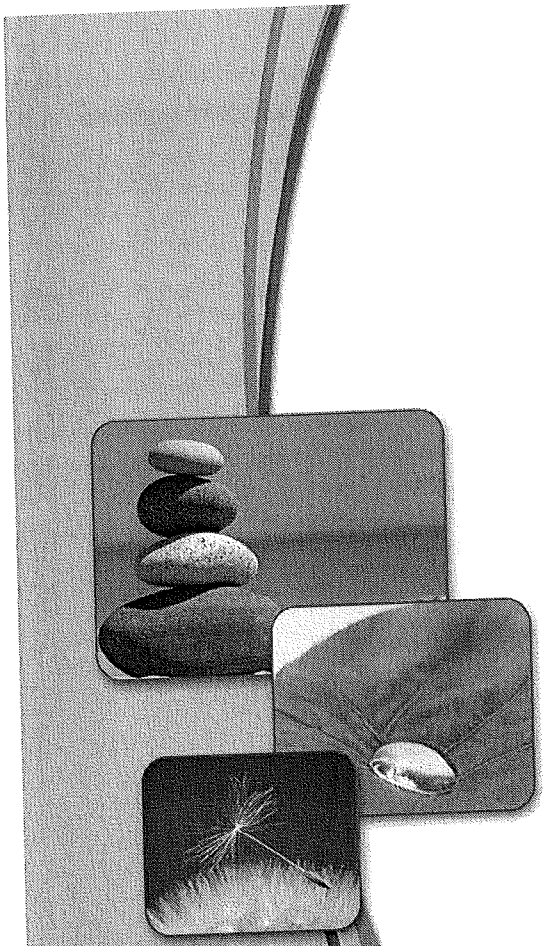
****

RECEIVED AT BTS Kent time date

unloaded by signature

APPENDIX B

LABORATORY ANALYTICAL REPORTS



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUC2276
Client Project/Site: SAP 174665
Client Project Description:
6317 NE 4th Plain Blvd, Vancouver, WA

For:
Conestoga-Rovers & Asso. (Everett)/ Shell
20818 44th Avenue West, Suite 190
Lynnwood, WA 98036

Attn: Brian Richardson

Authorized for release by:
03/29/2011 05:32:24 PM

Ryan Fitzwater
Project Manager
Ryan.Fitzwater@testamericainc.com

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.

Table of Contents

Sample Summary

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

TestAmerica Job ID: NUC2276

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUC2276-01	GW-060616-MW-1	Ground Water	03/14/11 10:50	03/15/11 08:30

Qualifier Definition/Glossary

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

TestAmerica Job ID: NUC2276

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).

GCMS Semivolatiles

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

GC Semivolatiles

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

Pesticides

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

Metals

Qualifier	Qualifier Description
M4	The MS/MSD required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS).
P7	Sample filtered in lab.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

Client Sample ID: GW-060616-MW-1
Date Collected: 03/14/11 10:50
Date Received: 03/15/11 08:30
Sampler Name: S. Lane

Lab Sample ID: NUC2276-01
Matrix: Ground Water

Sampler Phone Number: (425) 563-6511

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Benzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Bromobenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Bromochloromethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Bromodichloromethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Bromoform	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Bromomethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
2-Butanone	ND		50.0		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
sec-Butylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
n-Butylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
tert-Butylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Carbon disulfide	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Carbon Tetrachloride	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Chlorobenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Chlorodibromomethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Chloroethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Chloroform	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Chloromethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
2-Chlorotoluene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
4-Chlorotoluene	ND		5.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,2-Dibromo-3-chloropropane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Dibromomethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,1-Dichloroethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,2-Dichloroethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,1-Dichloroethene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,3-Dichloropropane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,2-Dichloropropane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
2,2-Dichloropropane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,1-Dichloropropene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Ethylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Hexachlorobutadiene	ND		50.0		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
2-Hexanone	ND	L	1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Isopropylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
p-Isopropyltoluene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Methyl tert-Butyl Ether	ND		5.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Methylene Chloride	ND		10.0		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
4-Methyl-2-pentanone	ND		5.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Naphthalene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
n-Propylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Styrene									

Client Sample ID: GW-060616-MW-1
Date Collected: 03/14/11 10:50
Date Received: 03/15/11 08:30
Sampler Name: S. Lane

Lab Sample ID: NUC2276-01
Matrix: Ground Water
Sampler Phone Number: (425) 563-6511

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Tetrachloroethene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Toluene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Trichloroethene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Trichlorofluoromethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Vinyl chloride	ND		1.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00
Xylenes, total	ND		3.00		ug/L		03/18/11 01:28	03/18/11 11:23	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*88*		*63 - 140*	*03/18/11 01:28*	*03/18/11 11:23*	*1.00*
Dibromofluoromethane	*94*		*73 - 131*	*03/18/11 01:28*	*03/18/11 11:23*	*1.00*
Toluene-d8	*105*		*80 - 120*	*03/18/11 01:28*	*03/18/11 11:23*	*1.00*
4-Bromofluorobenzene	*98*		*79 - 125*	*03/18/11 01:28*	*03/18/11 11:23*	*1.00*

Method: SW846 8270CSIM - Polyaromatic Hydrocarbons by EPA 8270C SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo (a) anthracene	ND		0.0980		ug/L		03/18/11 08:00	03/18/11 12:56	1.00
Benzo (a) pyrene	ND		0.0980		ug/L		03/18/11 08:00	03/18/11 12:56	1.00
Benzo (b) fluoranthene	ND		0.0980		ug/L		03/18/11 08:00	03/18/11 12:56	1.00
Benzo (k) fluoranthene	ND		0.0980		ug/L		03/18/11 08:00	03/18/11 12:56	1.00
Chrysene	ND		0.0980		ug/L		03/18/11 08:00	03/18/11 12:56	1.00
Dibenz (a,h) anthracene	ND		0.0980		ug/L		03/18/11 08:00	03/18/11 12:56	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0980		ug/L		03/18/11 08:00	03/18/11 12:56	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*80*		*27 - 120*	*03/18/11 08:00*	*03/18/11 12:56*	*1.00*
2-Fluorobiphenyl	*72*		*29 - 120*	*03/18/11 08:00*	*03/18/11 12:56*	*1.00*
Terphenyl-d14	*84*		*13 - 120*	*03/18/11 08:00*	*03/18/11 12:56*	*1.00*

Method: NWTPH-Gx - Purgeable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12) NW	ND		100		ug/L		03/14/11 10:50	03/24/11 20:01	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*113*		*50 - 150*	*03/14/11 10:50*	*03/24/11 20:01*	*1.00*

Method: NWTPH-Dx - Extractable Petroleum Hydrocarbons with Silica Gel Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		96.2		ug/L		03/17/11 13:20	03/19/11 10:31	1.00
Motor Oil	ND		96.2		ug/L		03/17/11 13:20	03/19/11 10:31	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*03/17/11 13:20*	*03/19/11 10:31*	*1.00*

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

Client Sample ID: GW-060616-MW-1
Date Collected: 03/14/11 10:50
Date Received: 03/15/11 08:30
Sampler Name: S. Lane

Lab Sample ID: NUC2276-01
Matrix: Ground Water
Sampler Phone Number: (425) 563-6511

Method: SW846 8011 - EDB by EPA Method 8011

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.02006	0.005014	ug/L		03/17/11 09:48	03/17/11 15:36	1.000

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,3-Dichlorobenzene	*91*		*47 - 150*	*03/17/11 09:48*	*03/17/11 15:36*	*1.000*

Method: SW846 6020 - Dissolved Metals by Method 6020 - dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	P7	2.00		ug/L		03/18/11 06:00	03/18/11 11:57	1.00
Barium	4.74	P7	2.00		ug/L		03/18/11 06:00	03/21/11 14:11	1.00
Cadmium	ND	P7	1.00		ug/L		03/18/11 06:00	03/18/11 11:57	1.00
Chromium	ND	P7	2.00		ug/L		03/18/11 06:00	03/18/11 11:57	1.00
Lead	ND	P7	2.00		ug/L		03/18/11 06:00	03/18/11 11:57	1.00
Selenium	ND	P7	2.00		ug/L		03/18/11 06:00	03/18/11 11:57	1.00
Silver	ND	P7	2.00		ug/L		03/18/11 06:00	03/18/11 11:57	1.00

Method: SW846 6020 - Total Metals by Method 6020

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.00		ug/L		03/21/11 06:16	03/23/11 19:44	1.00
Barium	5.22		2.00		ug/L		03/21/11 06:16	03/23/11 19:44	1.00
Cadmium	ND		1.00		ug/L		03/21/11 06:16	03/23/11 19:44	1.00
Chromium	ND		2.00		ug/L		03/21/11 06:16	03/23/11 19:44	1.00
Lead	ND		2.00		ug/L		03/21/11 06:16	03/23/11 19:44	1.00
Selenium	ND		2.00		ug/L		03/21/11 06:16	03/23/11 19:44	1.00
Silver	ND		2.00		ug/L		03/21/11 06:16	03/23/11 19:44	1.00

Method: SW846 7470A - Dissolved Mercury by EPA Methods 7470A/7471A - dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	P7	0.000200		mg/L		03/18/11 08:00	03/18/11 13:07	1.00

Method: SW846 7470A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		03/18/11 07:40	03/18/11 14:12	1.00

Method: SM3500-Cr B/D - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (VI)	ND		10.0		ug/L		03/15/11 11:31	03/15/11 11:31	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11C4722-BLK1
Matrix: Water
Analysis Batch: U004469

Client Sample ID: 11C4722-BLK1
Prep Type: total
Prep Batch: 11C4722_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Benzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Bromobenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Bromochloromethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Bromodichloromethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Bromoform	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Bromomethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
2-Butanone	ND		50.0		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
sec-Butylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
n-Butylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
tert-Butylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Carbon disulfide	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Carbon Tetrachloride	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Chlorobenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Chlorodibromomethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Chloroethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Chloroform	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Chloromethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
2-Chlorotoluene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
4-Chlorotoluene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Dibromomethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,1-Dichloroethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,2-Dichloroethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,1-Dichloroethene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,3-Dichloropropane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,2-Dichloropropane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
2,2-Dichloropropane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,1-Dichloropropene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Ethylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Hexachlorobutadiene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
2-Hexanone	ND		50.0		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Isopropylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
p-Isopropyltoluene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Methylene Chloride	ND		5.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Naphthalene	ND		5.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
n-Propylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Styrene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11C4722-BLK1
Matrix: Water
Analysis Batch: U004469

Client Sample ID: 11C4722-BLK1
Prep Type: total
Prep Batch: 11C4722_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Tetrachloroethene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Toluene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Trichloroethene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Trichlorofluoromethane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Vinyl chloride	ND		3.00		ug/L		03/18/11 01:28	03/18/11 04:15	1.00
Xylenes, total									

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*87*		*63 - 140*	*03/18/11 01:28*	*03/18/11 04:15*	*1.00*
Dibromofluoromethane	*94*		*73 - 131*	*03/18/11 01:28*	*03/18/11 04:15*	*1.00*
Toluene-d8	*106*		*80 - 120*	*03/18/11 01:28*	*03/18/11 04:15*	*1.00*
4-Bromofluorobenzene	*98*		*79 - 125*	*03/18/11 01:28*	*03/18/11 04:15*	*1.00*

Lab Sample ID: 11C4722-BS1
Matrix: Water
Analysis Batch: U004469

Client Sample ID: 11C4722-BS1
Prep Type: total
Prep Batch: 11C4722_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	278		ug/L		111	56 - 150
Benzene	50.0	52.3		ug/L		105	80 - 121
Bromobenzene	50.0	51.4		ug/L		103	72 - 130
Bromochloromethane	50.0	43.6		ug/L		87	73 - 137
Bromodichloromethane	50.0	51.9		ug/L		104	75 - 131
Bromoform	50.0	45.8		ug/L		92	65 - 140
Bromomethane	50.0	49.0		ug/L		98	50 - 150
2-Butanone	250	262		ug/L		105	70 - 144
sec-Butylbenzene	50.0	56.9		ug/L		114	72 - 140
n-Butylbenzene	50.0	56.7		ug/L		113	68 - 140
tert-Butylbenzene	50.0	55.3		ug/L		111	76 - 135
Carbon disulfide	50.0	42.3		ug/L		85	74 - 137
Carbon Tetrachloride	50.0	49.5		ug/L		99	71 - 137
Chlorobenzene	50.0	52.7		ug/L		105	80 - 121
Chlorodibromomethane	50.0	51.4		ug/L		103	68 - 137
Chloroethane	50.0	42.1		ug/L		84	50 - 146
Chloroform	50.0	49.5		ug/L		99	73 - 131
Chloromethane	50.0	36.1		ug/L		72	30 - 132
2-Chlorotoluene	50.0	52.9		ug/L		106	74 - 135
4-Chlorotoluene	50.0	54.8		ug/L		110	74 - 132
1,2-Dibromo-3-chloropropane	50.0	48.4		ug/L		97	56 - 145
1,2-Dibromoethane (EDB)	50.0	53.1		ug/L		106	80 - 135

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11C4722-BS1
Matrix: Water
Analysis Batch: U004469

Client Sample ID: 11C4722-BS1
Prep Type: total
Prep Batch: 11C4722_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	50.0	47.0		ug/L		94	78 - 133
1,4-Dichlorobenzene	50.0	53.8		ug/L		108	80 - 120
1,3-Dichlorobenzene	50.0	54.0		ug/L		108	80 - 128
1,2-Dichlorobenzene	50.0	54.2		ug/L		108	80 - 125
Dichlorodifluoromethane	50.0	33.6		ug/L		67	30 - 132
1,1-Dichloroethane	50.0	47.7		ug/L		95	75 - 125
1,2-Dichloroethane	50.0	42.9		ug/L		86	70 - 134
cis-1,2-Dichloroethene	50.0	46.9		ug/L		94	71 - 132
1,1-Dichloroethene	50.0	40.2		ug/L		80	73 - 125
trans-1,2-Dichloroethene	50.0	49.3		ug/L		99	77 - 125
1,3-Dichloropropane	50.0	52.0		ug/L		104	76 - 125
1,2-Dichloropropane	50.0	47.3		ug/L		95	72 - 120
2,2-Dichloropropane	50.0	41.7		ug/L		83	50 - 150
cis-1,3-Dichloropropene	50.0	56.5		ug/L		113	70 - 140
trans-1,3-Dichloropropene	50.0	51.8		ug/L		104	62 - 139
1,1-Dichloropropene	50.0	49.4		ug/L		99	78 - 126
Ethylbenzene	50.0	54.2		ug/L		108	78 - 133
Hexachlorobutadiene	50.0	45.1		ug/L		90	70 - 150
2-Hexanone	250	264		ug/L		105	60 - 150
Isopropylbenzene	50.0	60.3	L1	ug/L		121	69 - 120
p-Isopropyltoluene	50.0	55.1		ug/L		110	72 - 134
Methyl tert-Butyl Ether	50.0	46.6		ug/L		93	76 - 120
Methylene Chloride	50.0	43.8		ug/L		88	80 - 133
4-Methyl-2-pentanone	250	246		ug/L		98	62 - 146
Naphthalene	50.0	53.2		ug/L		106	71 - 139
n-Propylbenzene	50.0	55.0		ug/L		110	70 - 143
Styrene	50.0	56.2		ug/L		112	80 - 136
1,1,1,2-Tetrachloroethane	50.0	56.0		ug/L		112	80 - 130
1,1,2,2-Tetrachloroethane	50.0	51.4		ug/L		103	73 - 131
Tetrachloroethene	50.0	50.5		ug/L		101	77 - 131
Toluene	50.0	54.9		ug/L		110	78 - 125
1,2,3-Trichlorobenzene	50.0	52.3		ug/L		105	71 - 138
1,2,4-Trichlorobenzene	50.0	54.0		ug/L		108	74 - 136
1,1,2-Trichloroethane	50.0	53.2		ug/L		106	80 - 123
1,1,1-Trichloroethane	50.0	48.0		ug/L		96	75 - 137
Trichloroethene	50.0	51.2		ug/L		102	74 - 139
Trichlorofluoromethane	50.0	39.6		ug/L		79	60 - 133
1,2,3-Trichloropropane	50.0	50.5		ug/L		101	64 - 127
1,3,5-Trimethylbenzene	50.0	55.1		ug/L		110	75 - 134
1,2,4-Trimethylbenzene	50.0	54.7		ug/L		109	77 - 134
Vinyl chloride	50.0	44.3		ug/L		89	60 - 122
Xylenes, total	150	162		ug/L		108	78 - 134

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*86*		*63 - 140*
Dibromofluoromethane	*99*		*73 - 131*
Toluene-d8	*106*		*80 - 120*
4-Bromofluorobenzene	*96*		*79 - 125*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11C4722-BSD1
Matrix: Water
Analysis Batch: U004469

Client Sample ID: 11C4722-BSD1
Prep Type: total
Prep Batch: 11C4722_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	250	264		ug/L		106	56 - 150	5	31
Benzene	50.0	51.5		ug/L		103	80 - 121	1	12
Bromobenzene	50.0	50.5		ug/L		101	72 - 130	2	23
Bromochloromethane	50.0	42.3		ug/L		85	73 - 137	3	32
Bromodichloromethane	50.0	51.4		ug/L		103	75 - 131	1	13
Bromoform	50.0	46.3		ug/L		93	65 - 140	1	18
Bromomethane	50.0	48.3		ug/L		97	50 - 150	1	50
2-Butanone	250	257		ug/L		103	70 - 144	2	37
sec-Butylbenzene	50.0	56.4		ug/L		113	72 - 140	1	21
n-Butylbenzene	50.0	56.2		ug/L		112	68 - 140	1	11
tert-Butylbenzene	50.0	54.6		ug/L		109	76 - 135	1	20
Carbon disulfide	50.0	42.0		ug/L		84	74 - 137	0.8	28
Carbon Tetrachloride	50.0	48.9		ug/L		98	71 - 137	1	26
Chlorobenzene	50.0	52.6		ug/L		105	80 - 121	0.3	11
Chlorodibromomethane	50.0	50.6		ug/L		101	68 - 137	1	16
Chloroethane	50.0	40.7		ug/L		81	50 - 146	4	35
Chloroform	50.0	48.6		ug/L		97	73 - 131	2	32
Chloromethane	50.0	34.4		ug/L		69	30 - 132	5	34
2-Chlorotoluene	50.0	52.0		ug/L		104	74 - 135	2	22
4-Chlorotoluene	50.0	54.0		ug/L		108	74 - 132	2	22
1,2-Dibromo-3-chloropropane	50.0	47.9		ug/L		96	56 - 145	1	21
1,2-Dibromoethane (EDB)	50.0	53.3		ug/L		107	80 - 135	0.2	10
Dibromomethane	50.0	47.0		ug/L		94	78 - 133	0.04	11
1,4-Dichlorobenzene	50.0	53.0		ug/L		106	80 - 120	1	10
1,3-Dichlorobenzene	50.0	53.3		ug/L		107	80 - 128	1	18
1,2-Dichlorobenzene	50.0	53.4		ug/L		107	80 - 125	1	11
Dichlorodifluoromethane	50.0	32.8		ug/L		66	30 - 132	2	32
1,1-Dichloroethane	50.0	47.2		ug/L		94	75 - 125	1	34
1,2-Dichloroethane	50.0	42.2		ug/L		84	70 - 134	2	25
cis-1,2-Dichloroethene	50.0	46.2		ug/L		92	71 - 132	1	32
1,1-Dichloroethene	50.0	40.1		ug/L		80	73 - 125	0.2	31
trans-1,2-Dichloroethene	50.0	48.6		ug/L		97	77 - 125	2	32
1,3-Dichloropropane	50.0	51.6		ug/L		103	76 - 125	0.7	20
1,2-Dichloropropane	50.0	46.7		ug/L		93	72 - 120	1	11
2,2-Dichloropropane	50.0	40.6		ug/L		81	50 - 150	3	11
cis-1,3-Dichloropropene	50.0	56.1		ug/L		112	70 - 140	0.7	35
trans-1,3-Dichloropropene	50.0	51.4		ug/L		103	62 - 139	0.9	26
1,1-Dichloropropene	50.0	48.6		ug/L		97	78 - 126	2	18
Ethylbenzene	50.0	54.2		ug/L		108	78 - 133	0.04	12
Hexachlorobutadiene	50.0	45.3		ug/L		91	70 - 150	0.4	21
2-Hexanone	250	258		ug/L		103	60 - 150	2	20
Isopropylbenzene	50.0	60.1		ug/L		120	69 - 120	0.3	15
p-Isopropyltoluene	50.0	54.2		ug/L		108	72 - 134	2	18
Methyl tert-Butyl Ether	50.0	46.5		ug/L		93	76 - 120	0.2	32
Methylene Chloride	50.0	43.6		ug/L		87	80 - 133	0.5	36
4-Methyl-2-pentanone	250	247		ug/L		99	62 - 146	0.4	35
Naphthalene	50.0	53.4		ug/L		107	71 - 139	0.4	30
n-Propylbenzene	50.0	54.3		ug/L		109	70 - 143	1	23
Styrene	50.0	55.9		ug/L		112	80 - 136	0.4	29

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11C4722-BSD1
Matrix: Water
Analysis Batch: U004469

Client Sample ID: 11C4722-BSD1
Prep Type: total
Prep Batch: 11C4722_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	56.1		ug/L		112	80 - 130	0.07	11
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/L		104	73 - 131	1	28
Tetrachloroethene	50.0	50.4		ug/L		101	77 - 131	0.1	16
Toluene	50.0	54.6		ug/L		109	78 - 125	0.4	35
1,2,3-Trichlorobenzene	50.0	52.4		ug/L		105	71 - 138	0.1	28
1,2,4-Trichlorobenzene	50.0	53.7		ug/L		107	74 - 136	0.4	23
1,1,2-Trichloroethane	50.0	52.6		ug/L		105	80 - 123	1	21
1,1,1-Trichloroethane	50.0	47.2		ug/L		94	75 - 137	2	29
Trichloroethene	50.0	49.8		ug/L		100	74 - 139	3	11
Trichlorofluoromethane	50.0	38.4		ug/L		77	60 - 133	3	33
1,2,3-Trichloropropane	50.0	49.3		ug/L		99	64 - 127	2	25
1,3,5-Trimethylbenzene	50.0	54.3		ug/L		109	75 - 134	1	21
1,2,4-Trimethylbenzene	50.0	54.2		ug/L		108	77 - 134	0.9	20
Vinyl chloride	50.0	43.1		ug/L		86	60 - 122	3	32
Xylenes, total	150	161		ug/L		107	78 - 134	0.4	18

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*85*		*63 - 140*
Dibromofluoromethane	*98*		*73 - 131*
Toluene-d8	*106*		*80 - 120*
4-Bromofluorobenzene	*95*		*79 - 125*

Lab Sample ID: 11C4722-MS1
Matrix: Water
Analysis Batch: U004469

Client Sample ID: NUC2253-01RE1
Prep Type: total
Prep Batch: 11C4722_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	ND		2500	2530		ug/L		101	56 - 150
Benzene	529		500	1050		ug/L		105	65 - 151
Bromobenzene	ND		500	523		ug/L		105	69 - 142
Bromochloromethane	ND		500	483		ug/L		97	64 - 154
Bromodichloromethane	ND		500	569		ug/L		114	75 - 138
Bromoform	ND		500	516		ug/L		103	55 - 153
Bromomethane	ND		500	492		ug/L		98	13 - 176
2-Butanone	ND		2500	2650		ug/L		106	45 - 164
sec-Butylbenzene	17.3		500	590		ug/L		115	68 - 159
n-Butylbenzene	48.3		500	663		ug/L		123	67 - 151
tert-Butylbenzene	5.50		500	554		ug/L		110	73 - 153
Carbon disulfide	ND		500	478		ug/L		96	33 - 187
Carbon Tetrachloride	ND		500	532		ug/L		106	64 - 157
Chlorobenzene	ND		500	551		ug/L		110	78 - 136
Chlorodibromomethane	ND		500	548		ug/L		110	64 - 145
Chloroethane	ND		500	418		ug/L		84	48 - 159
Chloroform	ND		500	529		ug/L		106	72 - 145
Chloromethane	ND		500	394		ug/L		79	10 - 194
2-Chlorotoluene	ND		500	535		ug/L		107	66 - 155
4-Chlorotoluene	ND		500	550		ug/L		110	69 - 149
1,2-Dibromo-3-chloropropane	ND		500	568		ug/L		114	49 - 162
1,2-Dibromoethane (EDB)	ND		500	583		ug/L		117	70 - 152

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Client Sample ID: NUC2253-01RE1
Prep Type: total
Prep Batch: 11C4722_P

Lab Sample ID: 11C4722-MS1
Matrix: Water
Analysis Batch: U004469

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	ND		500	502		ug/L		100	75 - 141
1,4-Dichlorobenzene	ND		500	548		ug/L		110	75 - 135
1,3-Dichlorobenzene	ND		500	550		ug/L		110	72 - 146
1,2-Dichlorobenzene	ND		500	563		ug/L		113	80 - 136
Dichlorodifluoromethane	ND		500	374		ug/L		75	23 - 159
1,1-Dichloroethane	ND		500	496		ug/L		99	64 - 154
1,2-Dichloroethane	ND		500	458		ug/L		92	72 - 137
cis-1,2-Dichloroethene	ND		500	498		ug/L		100	57 - 154
1,1-Dichloroethene	ND		500	505		ug/L		101	34 - 151
trans-1,2-Dichloroethene	ND		500	486		ug/L		97	57 - 157
1,3-Dichloropropane	ND		500	563		ug/L		113	71 - 137
1,2-Dichloropropane	ND		500	504		ug/L		101	71 - 139
2,2-Dichloropropane	ND		500	488		ug/L		98	10 - 198
cis-1,3-Dichloropropene	ND		500	600		ug/L		120	56 - 156
trans-1,3-Dichloropropene	ND		500	562		ug/L		112	47 - 157
1,1-Dichloropropene	ND		500	537		ug/L		107	70 - 155
Ethylbenzene	12.6		500	579		ug/L		113	68 - 157
Hexachlorobutadiene	ND		500	538		ug/L		108	47 - 173
2-Hexanone	ND		2500	2880		ug/L		115	57 - 154
Isopropylbenzene	36.5		500	672		ug/L		127	69 - 139
p-Isopropyltoluene	6.80		500	561		ug/L		111	69 - 151
Methyl tert-Butyl Ether	ND		500	470		ug/L		94	56 - 152
Methylene Chloride	ND		500	479		ug/L		96	71 - 136
4-Methyl-2-pentanone	ND		2500	2730		ug/L		109	62 - 159
Naphthalene	7.10		500	640		ug/L		127	56 - 161
n-Propylbenzene	87.3		500	631		ug/L		109	61 - 167
Styrene	ND		500	597		ug/L		119	69 - 150
1,1,1,2-Tetrachloroethane	ND		500	592		ug/L		118	80 - 140
1,1,2,2-Tetrachloroethane	ND		500	611		ug/L		122	76 - 141
Tetrachloroethene	ND		500	515		ug/L		103	63 - 155
Toluene	5.80		500	562		ug/L		111	61 - 153
1,2,3-Trichlorobenzene	ND		500	586		ug/L		117	57 - 155
1,2,4-Trichlorobenzene	ND		500	604		ug/L		121	64 - 147
1,1,2-Trichloroethane	ND		500	713	M7	ug/L		143	74 - 138
1,1,1-Trichloroethane	ND		500	511		ug/L		102	78 - 153
Trichloroethene	ND		500	534		ug/L		107	74 - 139
Trichlorofluoromethane	ND		500	453		ug/L		91	53 - 149
1,2,3-Trichloropropane	6.20		500	549		ug/L		110	49 - 148
1,3,5-Trimethylbenzene	4.40		500	552		ug/L		109	67 - 151
1,2,4-Trimethylbenzene	ND		500	548		ug/L		109	69 - 150
Vinyl chloride	14.8		1500	453		ug/L		91	53 - 137
Xylenes, total				1710		ug/L		113	68 - 158

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*85*		*63 - 140*
Dibromofluoromethane	*99*		*73 - 131*
Toluene-d8	*105*		*80 - 120*
4-Bromofluorobenzene	*95*		*79 - 125*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11C4722-MSD1
Matrix: Water
Analysis Batch: U004469

Client Sample ID: NUC2253-01RE1
Prep Type: total
Prep Batch: 11C4722_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	ND		2500	2530		ug/L		101	56 - 150	0.1	31
Benzene	529		500	1020		ug/L		99	65 - 151	3	12
Bromobenzene	ND		500	529		ug/L		106	69 - 142	1	23
Bromochloromethane	ND		500	487		ug/L		97	64 - 154	0.7	32
Bromodichloromethane	ND		500	563		ug/L		113	75 - 138	1	13
Bromoform	ND		500	490		ug/L		98	55 - 153	5	18
Bromomethane	ND		500	481		ug/L		96	13 - 176	2	50
2-Butanone	ND		2500	2780		ug/L		111	45 - 164	5	37
sec-Butylbenzene	17.3		500	579		ug/L		112	68 - 159	2	21
n-Butylbenzene	48.3		500	645		ug/L		119	67 - 151	3	11
tert-Butylbenzene	5.50		500	544		ug/L		108	73 - 153	2	20
Carbon disulfide	ND		500	464		ug/L		93	33 - 187	3	28
Carbon Tetrachloride	ND		500	507		ug/L		101	64 - 157	5	26
Chlorobenzene	ND		500	537		ug/L		107	78 - 136	2	11
Chlorodibromomethane	ND		500	532		ug/L		106	64 - 145	3	16
Chloroethane	ND		500	403		ug/L		81	48 - 159	4	35
Chloroform	ND		500	514		ug/L		103	72 - 145	3	32
Chloromethane	ND		500	374		ug/L		75	10 - 194	5	34
2-Chlorotoluene	ND		500	533		ug/L		107	66 - 155	0.4	22
4-Chlorotoluene	ND		500	548		ug/L		110	69 - 149	0.4	22
1,2-Dibromo-3-chloropropane	ND		500	567		ug/L		113	49 - 162	0.2	21
1,2-Dibromoethane (EDB)	ND		500	567		ug/L		113	70 - 152	3	10
Dibromomethane	ND		500	498		ug/L		100	75 - 141	0.6	11
1,4-Dichlorobenzene	ND		500	542		ug/L		108	75 - 135	1	10
1,3-Dichlorobenzene	ND		500	544		ug/L		109	72 - 146	1	18
1,2-Dichlorobenzene	ND		500	554		ug/L		111	80 - 136	2	11
Dichlorodifluoromethane	ND		500	362		ug/L		72	23 - 159	3	32
1,1-Dichloroethane	ND		500	479		ug/L		96	64 - 154	3	34
1,2-Dichloroethane	ND		500	458		ug/L		92	72 - 137	0.1	25
cis-1,2-Dichloroethene	ND		500	484		ug/L		97	57 - 154	3	32
1,1-Dichloroethene	ND		500	483		ug/L		97	34 - 151	5	31
trans-1,2-Dichloroethene	ND		500	465		ug/L		93	57 - 157	5	32
1,3-Dichloropropane	ND		500	546		ug/L		109	71 - 137	3	20
1,2-Dichloropropane	ND		500	498		ug/L		100	71 - 139	1	11
2,2-Dichloropropane	ND		500	471		ug/L		94	10 - 198	4	11
cis-1,3-Dichloropropene	ND		500	584		ug/L		117	56 - 156	3	35
trans-1,3-Dichloropropene	ND		500	546		ug/L		109	47 - 157	3	26
1,1-Dichloropropene	ND		500	518		ug/L		104	70 - 155	4	18
Ethylbenzene	12.6		500	561		ug/L		110	68 - 157	3	12
Hexachlorobutadiene	ND		500	498		ug/L		100	47 - 173	8	21
2-Hexanone	ND		2500	2940		ug/L		118	57 - 154	2	20
Isopropylbenzene	36.5		500	633		ug/L		119	69 - 139	6	15
p-Isopropyltoluene	6.80		500	548		ug/L		108	69 - 151	2	18
Methyl tert-Butyl Ether	ND		500	499		ug/L		100	56 - 152	6	32
Methylene Chloride	ND		500	475		ug/L		95	71 - 136	0.8	36
4-Methyl-2-pentanone	ND		2500	2840		ug/L		114	62 - 159	4	35
Naphthalene	7.10		500	634		ug/L		125	56 - 161	0.9	30
n-Propylbenzene	87.3		500	628		ug/L		108	61 - 167	0.5	23
Styrene	ND		500	571		ug/L		114	69 - 150	4	29

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Client Sample ID: NUC2253-01RE1
Prep Type: total
Prep Batch: 11C4722_P

Lab Sample ID: 11C4722-MSD1
Matrix: Water
Analysis Batch: U004469

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		500	569		ug/L		114	80 - 140	4	11
1,1,2,2-Tetrachloroethane	ND		500	613		ug/L		123	76 - 141	0.3	28
Tetrachloroethene	ND		500	504		ug/L		101	63 - 155	2	16
Toluene	5.80		500	558		ug/L		111	61 - 153	0.6	35
1,2,3-Trichlorobenzene	ND		500	576		ug/L		115	57 - 155	2	28
1,2,4-Trichlorobenzene	ND		500	596		ug/L		119	64 - 147	1	23
1,1,2-Trichloroethane	ND		500	702	M7	ug/L		140	74 - 138	1	21
1,1,1-Trichloroethane	ND		500	494		ug/L		99	78 - 153	3	29
Trichloroethene	ND		500	515		ug/L		103	74 - 139	3	11
Trichlorofluoromethane	ND		500	417		ug/L		83	53 - 149	8	33
1,2,3-Trichloropropane	ND		500	562		ug/L		112	49 - 148	2	25
1,3,5-Trimethylbenzene	6.20		500	547		ug/L		108	67 - 151	1	21
1,2,4-Trimethylbenzene	4.40		500	542		ug/L		108	69 - 150	1	20
Vinyl chloride	ND		500	432		ug/L		86	53 - 137	5	32
Xylenes, total	14.8		1500	1650		ug/L		109	68 - 158	4	18

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*86*		*63 - 140*
Dibromofluoromethane	*98*		*73 - 131*
Toluene-d8	*105*		*80 - 120*
4-Bromofluorobenzene	*97*		*79 - 125*

Method: SW846 8270CSIM - Polyaromatic Hydrocarbons by EPA 8270C SIM

Client Sample ID: 11C3980-BLK1
Prep Type: total
Prep Batch: 11C3980_P

Lab Sample ID: 11C3980-BLK1
Matrix: Water
Analysis Batch: 11C3980

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Acenaphthylene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Anthracene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Benzo (a) anthracene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Benzo (a) pyrene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Benzo (b) fluoranthene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Benzo (g,h,i) perylene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Benzo (k) fluoranthene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Chrysene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Dibenz (a,h) anthracene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Fluoranthene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Fluorene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Indeno (1,2,3-cd) pyrene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
1-Methylnaphthalene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
2-Methylnaphthalene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Naphthalene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Phenanthrene	ND		0.100		ug/L		03/18/11 08:00	03/18/11 11:09	1.00
Pyrene									

Method: SW846 8270CSIM - Polyaromatic Hydrocarbons by EPA 8270C SIM (Continued)

Lab Sample ID: 11C3980-BLK1
Matrix: Water
Analysis Batch: 11C3980

Client Sample ID: 11C3980-BLK1
Prep Type: total
Prep Batch: 11C3980_P

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*73*		*27 - 120*	*03/18/11 08:00*	*03/18/11 11:09*	*1.00*
2-Fluorobiphenyl	*67*		*29 - 120*	*03/18/11 08:00*	*03/18/11 11:09*	*1.00*
Terphenyl-d14	*84*		*13 - 120*	*03/18/11 08:00*	*03/18/11 11:09*	*1.00*

Lab Sample ID: 11C3980-BS1
Matrix: Water
Analysis Batch: 11C3980

Client Sample ID: 11C3980-BS1
Prep Type: total
Prep Batch: 11C3980_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.00	0.710	MNR1	ug/L		71	43 - 122
Acenaphthylene	1.00	0.660	MNR1	ug/L		66	43 - 129
Anthracene	1.00	0.740	MNR1	ug/L		74	50 - 138
Benzo (a) anthracene	1.00	0.730	MNR1	ug/L		73	50 - 135
Benzo (a) pyrene	1.00	0.730	MNR1	ug/L		73	46 - 136
Benzo (b) fluoranthene	1.00	0.720	MNR1	ug/L		72	37 - 147
Benzo (g,h,i) perylene	1.00	0.780	MNR1	ug/L		78	30 - 145
Benzo (k) fluoranthene	1.00	0.850	MNR1	ug/L		85	47 - 135
Chrysene	1.00	0.840	MNR1	ug/L		84	47 - 138
Dibenz (a,h) anthracene	1.00	0.690	MNR1	ug/L		69	36 - 144
Fluoranthene	1.00	0.730	MNR1	ug/L		73	51 - 139
Fluorene	1.00	0.700	MNR1	ug/L		70	47 - 128
Indeno (1,2,3-cd) pyrene	1.00	0.690	MNR1	ug/L		69	32 - 142
1-Methylnaphthalene	1.00	0.680	MNR1	ug/L		68	37 - 126
2-Methylnaphthalene	1.00	0.710	MNR1	ug/L		71	41 - 121
Naphthalene	1.00	0.720	MNR1	ug/L		72	38 - 120
Phenanthrene	1.00	0.850	MNR1	ug/L		85	45 - 133
Pyrene	1.00	0.850	MNR1	ug/L		85	50 - 146

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*73*		*27 - 120*
2-Fluorobiphenyl	*69*		*29 - 120*
Terphenyl-d14	*78*		*13 - 120*

Method: NWTPH-Gx - Purgeable Petroleum Hydrocarbons

Lab Sample ID: 11C6108-BLK1
Matrix: Water
Analysis Batch: U004906

Client Sample ID: 11C6108-BLK1
Prep Type: total
Prep Batch: 11C6108_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12) NW	ND		100		ug/L		03/24/11 00:00	03/24/11 19:01	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*114*		*50 - 150*	*03/24/11 00:00*	*03/24/11 19:01*	*1.00*

Method: NWTPH-Gx - Purgeable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 11C6108-BS1
Matrix: Water
Analysis Batch: U004906

Client Sample ID: 11C6108-BS1
Prep Type: total
Prep Batch: 11C6108_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
GRO (C4-C12) NW	1000	913		ug/L		91	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*117*		*50 - 150*

Lab Sample ID: 11C6108-BSD1
Matrix: Water
Analysis Batch: U004906

Client Sample ID: 11C6108-BSD1
Prep Type: total
Prep Batch: 11C6108_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
GRO (C4-C12) NW	1000	925		ug/L		93	70 - 130	1	37

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*124*		*50 - 150*

Lab Sample ID: 11C6108-MS1
Matrix: Water
Analysis Batch: U004906

Client Sample ID: NUC2704-01
Prep Type: total
Prep Batch: 11C6108_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
GRO (C4-C12) NW	ND		1000	1170		ug/L		117	58 - 139

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*118*		*50 - 150*

Lab Sample ID: 11C6108-MSD1
Matrix: Water
Analysis Batch: U004906

Client Sample ID: NUC2704-01
Prep Type: total
Prep Batch: 11C6108_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
GRO (C4-C12) NW	ND		1000	1030		ug/L		103	58 - 139	12	37

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*118*		*50 - 150*

Lab Sample ID: 11C6108-DUP1
Matrix: Water
Analysis Batch: U004906

Client Sample ID: GW-060616-MW-1
Prep Type: total
Prep Batch: 11C6108_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
GRO (C4-C12) NW	ND			ND		ug/L					37

Surrogate	*Duplicate % Recovery*	*Duplicate Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*101*		*50 - 150*

Method: NWTPH-Dx - Extractable Petroleum Hydrocarbons with Silica Gel Treatment

Lab Sample ID: 11C3929-BLK1
Matrix: Water
Analysis Batch: U004538

Client Sample ID: 11C3929-BLK1
Prep Type: total
Prep Batch: 11C3929_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		100		ug/L		03/17/11 13:20	03/19/11 09:54	1.00
Motor Oil	ND		100		ug/L		03/17/11 13:20	03/19/11 09:54	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*03/17/11 13:20*	*03/19/11 09:54*	*1.00*

Lab Sample ID: 11C3929-BS1
Matrix: Water
Analysis Batch: U004538

Client Sample ID: 11C3929-BS1
Prep Type: total
Prep Batch: 11C3929_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel	1000	932	MNR1	ug/L		93	57 - 132

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*84*		*50 - 150*

Method: SW846 8011 - EDB by EPA Method 8011

Lab Sample ID: 11C3996-BLK1
Matrix: Water
Analysis Batch: U004340

Client Sample ID: 11C3996-BLK1
Prep Type: total
Prep Batch: 11C3996_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.02000	0.005000	ug/L		03/17/11 09:48	03/17/11 14:25	1.000

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,3-Dichlorobenzene	*119*		*47 - 150*	*03/17/11 09:48*	*03/17/11 14:25*	*1.000*

Lab Sample ID: 11C3996-BS1
Matrix: Water
Analysis Batch: U004340

Client Sample ID: 11C3996-BS1
Prep Type: total
Prep Batch: 11C3996_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,2-Dibromoethane (EDB)	0.286	0.2857	MNR1	ug/L		100	56 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,3-Dichlorobenzene	*115*		*47 - 150*

Method: SW846 6020 - Total Metals by Method 6020

Lab Sample ID: 11C3983-BLK1
Matrix: Water
Analysis Batch: 11C3983

Client Sample ID: 11C3983-BLK1
Prep Type: total
Prep Batch: 11C3983_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.00		ug/L		03/21/11 06:16	03/23/11 19:41	1.00
Barium	ND		2.00		ug/L		03/21/11 06:16	03/23/11 19:41	1.00
Cadmium	ND		1.00		ug/L		03/21/11 06:16	03/23/11 19:41	1.00

Method: SW846 6020 - Total Metals by Method 6020 (Continued)

Lab Sample ID: 11C3983-BLK1
Matrix: Water
Analysis Batch: 11C3983

Client Sample ID: 11C3983-BLK1
Prep Type: total
Prep Batch: 11C3983_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		2.00		ug/L		03/21/11 06:16	03/23/11 19:41	1.00
Lead	ND		2.00		ug/L		03/21/11 06:16	03/23/11 19:41	1.00
Selenium	ND		2.00		ug/L		03/21/11 06:16	03/23/11 19:41	1.00
Silver	ND		2.00		ug/L		03/21/11 06:16	03/23/11 19:41	1.00

Lab Sample ID: 11C3983-BS1
Matrix: Water
Analysis Batch: 11C3983

Client Sample ID: 11C3983-BS1
Prep Type: total
Prep Batch: 11C3983_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	100	90.5		ug/L		91	80 - 120
Barium	100	103		ug/L		103	80 - 120
Cadmium	100	94.1		ug/L		94	80 - 120
Chromium	100	94.5		ug/L		95	80 - 120
Lead	100	97.8		ug/L		98	80 - 120
Selenium	100	93.2		ug/L		93	80 - 120
Silver	100	94.7		ug/L		95	80 - 120

Lab Sample ID: 11C3983-BSD1
Matrix: Water
Analysis Batch: 11C3983

Client Sample ID: 11C3983-BSD1
Prep Type: total
Prep Batch: 11C3983_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	100	93.2		ug/L		93	80 - 120	3	20
Barium	100	98.9		ug/L		99	80 - 120	4	20
Cadmium	100	94.5		ug/L		94	80 - 120	0.4	20
Chromium	100	94.9		ug/L		95	80 - 120	0.4	20
Lead	100	98.0		ug/L		98	80 - 120	0.2	20
Selenium	100	88.6		ug/L		89	80 - 120	5	20
Silver	100	104		ug/L		104	80 - 120	10	20

Lab Sample ID: 11C3983-MS1
Matrix: Water
Analysis Batch: 11C3983

Client Sample ID: NUC2717-03
Prep Type: total
Prep Batch: 11C3983_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	0.470		100	92.3		ug/L		92	75 - 125
Barium	12.0		100	120		ug/L		108	75 - 125
Cadmium	0.0500		100	88.2		ug/L		88	75 - 125
Chromium	0.820		100	89.4		ug/L		89	75 - 125
Lead	0.160		100	100		ug/L		100	75 - 125
Selenium	0.150		100	94.1		ug/L		94	75 - 125
Silver	ND		100	83.9		ug/L		84	75 - 125

Lab Sample ID: 11C3983-MS2
Matrix: Water
Analysis Batch: 11C3983

Client Sample ID: NUC2846-01
Prep Type: total
Prep Batch: 11C3983_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	ND		100	110		ug/L		110	75 - 125
Barium	1770		100	1930	M4	ug/L		160	75 - 125

Method: SW846 6020 - Total Metals by Method 6020 (Continued)

Lab Sample ID: 11C3983-MS2
Matrix: Water
Analysis Batch: 11C3983

Client Sample ID: NUC2846-01
Prep Type: total
Prep Batch: 11C3983_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Cadmium	ND		100	80.0		ug/L		80	75 - 125
Chromium	ND		100	ND	M4	ug/L			75 - 125
Lead	ND		100	100		ug/L		100	75 - 125
Selenium	ND		100	90.0		ug/L		90	75 - 125
Silver	ND		100	ND	M4	ug/L			75 - 125

Lab Sample ID: 11C3983-MSD1
Matrix: Water
Analysis Batch: 11C3983

Client Sample ID: NUC2717-03
Prep Type: total
Prep Batch: 11C3983_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	0.470		100	95.7		ug/L		95	75 - 125	4	20
Barium	12.0		100	121		ug/L		109	75 - 125	0.7	20
Cadmium	0.0500		100	89.7		ug/L		90	75 - 125	2	20
Chromium	0.820		100	90.8		ug/L		90	75 - 125	2	20
Lead	0.160		100	100		ug/L		100	75 - 125	0.2	20
Selenium	0.150		100	94.8		ug/L		95	75 - 125	0.8	20
Silver	ND		100	85.5		ug/L		86	75 - 125	2	20

Lab Sample ID: 11C3983-MSD2
Matrix: Water
Analysis Batch: 11C3983

Client Sample ID: NUC2846-01
Prep Type: total
Prep Batch: 11C3983_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	ND		100	80.0	M4	ug/L		80	75 - 125	32	20
Barium	1770		100	1700	M4	ug/L		-70	75 - 125	13	20
Cadmium	ND		100	90.0		ug/L		90	75 - 125	12	20
Chromium	ND		100	ND	M4	ug/L			75 - 125		20
Lead	ND		100	100		ug/L		100	75 - 125	0	20
Selenium	ND		100	100		ug/L		100	75 - 125	11	20
Silver	ND		100	ND	M4	ug/L			75 - 125		20

Lab Sample ID: 11C3976-BLK1
Matrix: Water
Analysis Batch: 11C3976

Client Sample ID: 11C3976-BLK1
Prep Type: dissolved
Prep Batch: 11C3976_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.00		ug/L		03/18/11 06:00	03/18/11 11:54	1.00
Barium	ND		2.00		ug/L		03/18/11 06:00	03/18/11 11:54	1.00
Cadmium	ND		1.00		ug/L		03/18/11 06:00	03/18/11 11:54	1.00
Chromium	ND		2.00		ug/L		03/18/11 06:00	03/18/11 11:54	1.00
Lead	ND		2.00		ug/L		03/18/11 06:00	03/18/11 11:54	1.00
Selenium	ND		2.00		ug/L		03/18/11 06:00	03/18/11 11:54	1.00
Silver	ND		2.00		ug/L		03/18/11 06:00	03/18/11 11:54	1.00

Lab Sample ID: 11C3976-BS1
Matrix: Water
Analysis Batch: 11C3976

Client Sample ID: 11C3976-BS1
Prep Type: dissolved
Prep Batch: 11C3976_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	100	89.0		ug/L		89	80 - 120

Method: SW846 6020 - Dissolved Metals by Method 6020 (Continued)

Lab Sample ID: 11C3976-BS1
Matrix: Water
Analysis Batch: 11C3976

Client Sample ID: 11C3976-BS1
Prep Type: dissolved
Prep Batch: 11C3976_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Barium	100	103		ug/L		103	80 - 120
Cadmium	100	91.7		ug/L		92	80 - 120
Chromium	100	92.0		ug/L		92	80 - 120
Lead	100	97.8		ug/L		98	80 - 120
Selenium	100	93.1		ug/L		93	80 - 120
Silver	100	92.5		ug/L		92	80 - 120

Lab Sample ID: 11C3976-BSD1
Matrix: Water
Analysis Batch: 11C3976

Client Sample ID: 11C3976-BSD1
Prep Type: dissolved
Prep Batch: 11C3976_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	100	89.6		ug/L		90	80 - 120	0.7	20
Barium	100	101		ug/L		101	80 - 120	2	20
Cadmium	100	93.6		ug/L		94	80 - 120	2	20
Chromium	100	95.1		ug/L		95	80 - 120	3	20
Lead	100	96.2		ug/L		96	80 - 120	2	20
Selenium	100	93.9		ug/L		94	80 - 120	0.9	20
Silver	100	94.8		ug/L		95	80 - 120	2	20

Lab Sample ID: 11C3976-MS1
Matrix: Water
Analysis Batch: 11C3976

Client Sample ID: NUC2490-05
Prep Type: dissolved
Prep Batch: 11C3976_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	0.920		100	95.2		ug/L		94	75 - 125
Barium	112		100	222		ug/L		110	75 - 125
Cadmium	0.190		100	86.0		ug/L		86	75 - 125
Chromium	ND		100	91.1		ug/L		91	75 - 125
Lead	ND		100	100		ug/L		100	75 - 125
Selenium	0.940		100	93.2		ug/L		92	75 - 125
Silver	0.340		100	84.1		ug/L		84	75 - 125

Lab Sample ID: 11C3976-MSD1
Matrix: Water
Analysis Batch: 11C3976

Client Sample ID: NUC2490-05
Prep Type: dissolved
Prep Batch: 11C3976_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	0.920		100	94.0		ug/L		93	75 - 125	1	20
Barium	112		100	208		ug/L		95	75 - 125	7	20
Cadmium	0.190		100	84.4		ug/L		84	75 - 125	2	20
Chromium	ND		100	91.0		ug/L		91	75 - 125	0.03	20
Lead	ND		100	93.4		ug/L		93	75 - 125	7	20
Selenium	0.940		100	90.4		ug/L		89	75 - 125	3	20
Silver	0.340		100	82.9		ug/L		83	75 - 125	1	20

Method: SW846 7470A - Mercury by EPA Methods 7470A/7471A

Lab Sample ID: 11C3942-BLK1
Matrix: Water
Analysis Batch: 11C3942

Client Sample ID: 11C3942-BLK1
Prep Type: total
Prep Batch: 11C3942_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		03/18/11 07:40	03/18/11 13:59	1.00

Lab Sample ID: 11C3942-BS1
Matrix: Water
Analysis Batch: 11C3942

Client Sample ID: 11C3942-BS1
Prep Type: total
Prep Batch: 11C3942_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.00100	0.000993		mg/L		99	80 - 120

Lab Sample ID: 11C3942-BSD1
Matrix: Water
Analysis Batch: 11C3942

Client Sample ID: 11C3942-BSD1
Prep Type: total
Prep Batch: 11C3942_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.00100	0.00102		mg/L		102	80 - 120	3	20

Lab Sample ID: 11C3942-MS1
Matrix: Water
Analysis Batch: 11C3942

Client Sample ID: NUC2717-03
Prep Type: total
Prep Batch: 11C3942_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	ND		0.00100	0.00107		mg/L		107	75 - 125

Lab Sample ID: 11C3942-MSD1
Matrix: Water
Analysis Batch: 11C3942

Client Sample ID: NUC2717-03
Prep Type: total
Prep Batch: 11C3942_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.00102		mg/L		102	75 - 125	5	20

Lab Sample ID: 11C3804-BLK1
Matrix: Water
Analysis Batch: 11C3804

Client Sample ID: 11C3804-BLK1
Prep Type: dissolved
Prep Batch: 11C3804_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		03/18/11 08:00	03/18/11 13:01	1.00

Lab Sample ID: 11C3804-BS1
Matrix: Water
Analysis Batch: 11C3804

Client Sample ID: 11C3804-BS1
Prep Type: dissolved
Prep Batch: 11C3804_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.00100	0.000955		mg/L		96	80 - 120

Lab Sample ID: 11C3804-BSD1
Matrix: Water
Analysis Batch: 11C3804

Client Sample ID: 11C3804-BSD1
Prep Type: dissolved
Prep Batch: 11C3804_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.00100	0.000992		mg/L		99	80 - 120	4	20

Method: SW846 7470A - Dissolved Mercury by EPA Methods 7470A/7471A (Continued)

Lab Sample ID: 11C3804-MS1
Matrix: Water
Analysis Batch: 11C3804

Client Sample ID: NUC2479-01
Prep Type: dissolved
Prep Batch: 11C3804_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	ND		0.00100	0.00100		mg/L		100	75 - 125

Lab Sample ID: 11C3804-MSD1
Matrix: Water
Analysis Batch: 11C3804

Client Sample ID: NUC2479-01
Prep Type: dissolved
Prep Batch: 11C3804_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.000984		mg/L		98	75 - 125	2	20

Method: SM3500-Cr B/D - General Chemistry Parameters

Lab Sample ID: 11C3383-BLK1
Matrix: Water
Analysis Batch: 11C3383

Client Sample ID: 11C3383-BLK1
Prep Type: total
Prep Batch: 11C3383_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (VI)	ND		10.0		ug/L		03/15/11 11:31	03/15/11 11:31	1.00

Lab Sample ID: 11C3383-BS1
Matrix: Water
Analysis Batch: 11C3383

Client Sample ID: 11C3383-BS1
Prep Type: total
Prep Batch: 11C3383_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium (VI)	100	91.6		ug/L		92	85 - 115

Lab Sample ID: 11C3383-MS1
Matrix: Water
Analysis Batch: 11C3383

Client Sample ID: GW-060616-MW-1
Prep Type: total
Prep Batch: 11C3383_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium (VI)	ND		100	121		ug/L		121	70 - 130

Lab Sample ID: 11C3383-MSD1
Matrix: Water
Analysis Batch: 11C3383

Client Sample ID: GW-060616-MW-1
Prep Type: total
Prep Batch: 11C3383_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chromium (VI)	ND		100	123		ug/L		123	70 - 130	1	10

Lab Sample ID: 11C3383-DUP1
Matrix: Water
Analysis Batch: 11C3383

Client Sample ID: GW-060616-MW-1
Prep Type: total
Prep Batch: 11C3383_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Chromium (VI)	ND		ND		ug/L			10

QC Association Summary

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

TestAmerica Job ID: NUC2276

GCMS Volatiles

Prep Batch: 11C4722_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C4722-BS1	11C4722-BS1	total	Water	EPA 5030B	
11C4722-BSD1	11C4722-BSD1	total	Water	EPA 5030B	
11C4722-BLK1	11C4722-BLK1	total	Water	EPA 5030B	
NUC2276-01	GW-060616-MW-1	total	Ground Water	EPA 5030B	
11C4722-MS1	NUC2253-01RE1	total	Water	EPA 5030B	
11C4722-MSD1	NUC2253-01RE1	total	Water	EPA 5030B	

Analysis Batch: U004469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C4722-BS1	11C4722-BS1	total	Water	SW846 8260B	11C4722_P
11C4722-BSD1	11C4722-BSD1	total	Water	SW846 8260B	11C4722_P
11C4722-BLK1	11C4722-BLK1	total	Water	SW846 8260B	11C4722_P
NUC2276-01	GW-060616-MW-1	total	Ground Water	SW846 8260B	11C4722_P
11C4722-MS1	NUC2253-01RE1	total	Water	SW846 8260B	11C4722_P
11C4722-MSD1	NUC2253-01RE1	total	Water	SW846 8260B	11C4722_P

GCMS Semivolatiles

Analysis Batch: 11C3980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3980-BLK1	11C3980-BLK1	total	Water	SW846 8270CSIM	11C3980_P
11C3980-BS1	11C3980-BS1	total	Water	SW846 8270CSIM	11C3980_P
NUC2276-01	GW-060616-MW-1	total	Ground Water	SW846 8270CSIM	11C3980_P

Prep Batch: 11C3980_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3980-BLK1	11C3980-BLK1	total	Water	EPA 3510C	
11C3980-BS1	11C3980-BS1	total	Water	EPA 3510C	
NUC2276-01	GW-060616-MW-1	total	Ground Water	EPA 3510C	

GC Volatiles

Prep Batch: 11C6108_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C6108-BLK1	11C6108-BLK1	total	Water	EPA 5030B (GC)	
NUC2276-01	GW-060616-MW-1	total	Ground Water	EPA 5030B (GC)	
11C6108-BS1	11C6108-BS1	total	Water	EPA 5030B (GC)	
11C6108-BSD1	11C6108-BSD1	total	Water	EPA 5030B (GC)	
11C6108-MS1	NUC2704-01	total	Water	EPA 5030B (GC)	
11C6108-MSD1	NUC2704-01	total	Water	EPA 5030B (GC)	
11C6108-DUP1	GW-060616-MW-1	total	Water	EPA 5030B (GC)	

Analysis Batch: U004906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C6108-BLK1	11C6108-BLK1	total	Water	NWTPH-Gx	11C6108_P
NUC2276-01	GW-060616-MW-1	total	Ground Water	NWTPH-Gx	11C6108_P

GC Volatiles (Continued)

Analysis Batch: U004906 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C6108-BS1	11C6108-BS1	total	Water	NWTPH-Gx	11C6108_P
11C6108-BSD1	11C6108-BSD1	total	Water	NWTPH-Gx	11C6108_P
11C6108-MS1	NUC2704-01	total	Water	NWTPH-Gx	11C6108_P
11C6108-MSD1	NUC2704-01	total	Water	NWTPH-Gx	11C6108_P
11C6108-DUP1	GW-060616-MW-1	total	Water	NWTPH-Gx	11C6108_P

GC Semivolatiles

Prep Batch: 11C3929_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3929-BLK1	11C3929-BLK1	total	Water	EPA 3510C	
11C3929-BS1	11C3929-BS1	total	Water	EPA 3510C	
NUC2276-01	GW-060616-MW-1	total	Ground Water	EPA 3510C	

Analysis Batch: U004538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3929-BLK1	11C3929-BLK1	total	Water	NWTPH-Dx	11C3929_P
11C3929-BS1	11C3929-BS1	total	Water	NWTPH-Dx	11C3929_P
NUC2276-01	GW-060616-MW-1	total	Ground Water	NWTPH-Dx	11C3929_P

Pesticides

Prep Batch: 11C3996_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3996-BLK1	11C3996-BLK1	total	Water	EPA 8011	
11C3996-BS1	11C3996-BS1	total	Water	EPA 8011	
NUC2276-01	GW-060616-MW-1	total	Ground Water	EPA 8011	

Analysis Batch: U004340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3996-BLK1	11C3996-BLK1	total	Water	SW846 8011	11C3996_P
11C3996-BS1	11C3996-BS1	total	Water	SW846 8011	11C3996_P
NUC2276-01	GW-060616-MW-1	total	Ground Water	SW846 8011	11C3996_P

Metals

Analysis Batch: 11C3804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3804-BLK1	11C3804-BLK1	Dissolved	Water	SW846 7470A	11C3804_P
11C3804-BS1	11C3804-BS1	Dissolved	Water	SW846 7470A	11C3804_P
11C3804-BSD1	11C3804-BSD1	Dissolved	Water	SW846 7470A	11C3804_P
NUC2276-01	GW-060616-MW-1	Dissolved	Ground Water	SW846 7470A	11C3804_P
11C3804-MS1	NUC2479-01	Dissolved	Water	SW846 7470A	11C3804_P
11C3804-MSD1	NUC2479-01	Dissolved	Water	SW846 7470A	11C3804_P

Prep Batch: 11C3804_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3804-BLK1	11C3804-BLK1	Dissolved	Water	EPA 7470	
11C3804-BS1	11C3804-BS1	Dissolved	Water	EPA 7470	
11C3804-BSD1	11C3804-BSD1	Dissolved	Water	EPA 7470	
NUC2276-01	GW-060616-MW-1	Dissolved	Ground Water	EPA 7470	
11C3804-MS1	NUC2479-01	Dissolved	Water	EPA 7470	

Metals (Continued)

Prep Batch: 11C3804_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3804-MSD1	NUC2479-01	Dissolved	Water	EPA 7470	

Analysis Batch: 11C3942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3942-BLK1	11C3942-BLK1	total	Water	SW846 7470A	11C3942_P
11C3942-BS1	11C3942-BS1	total	Water	SW846 7470A	11C3942_P
11C3942-BSD1	11C3942-BSD1	total	Water	SW846 7470A	11C3942_P
NUC2276-01	GW-060616-MW-1	total	Ground Water	SW846 7470A	11C3942_P
11C3942-MS1	NUC2717-03	total	Water	SW846 7470A	11C3942_P
11C3942-MSD1	NUC2717-03	total	Water	SW846 7470A	11C3942_P

Prep Batch: 11C3942_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3942-BLK1	11C3942-BLK1	total	Water	EPA 7470	
11C3942-BS1	11C3942-BS1	total	Water	EPA 7470	
11C3942-BSD1	11C3942-BSD1	total	Water	EPA 7470	
NUC2276-01	GW-060616-MW-1	total	Ground Water	EPA 7470	
11C3942-MS1	NUC2717-03	total	Water	EPA 7470	
11C3942-MSD1	NUC2717-03	total	Water	EPA 7470	

Analysis Batch: 11C3976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3976-BS1	11C3976-BS1	Dissolved	Water	SW846 6020	11C3976_P
11C3976-BSD1	11C3976-BSD1	Dissolved	Water	SW846 6020	11C3976_P
11C3976-BLK1	11C3976-BLK1	Dissolved	Water	SW846 6020	11C3976_P
NUC2276-01	GW-060616-MW-1	Dissolved	Ground Water	SW846 6020	11C3976_P
11C3976-MS1	NUC2490-05	Dissolved	Water	SW846 6020	11C3976_P
11C3976-MSD1	NUC2490-05	Dissolved	Water	SW846 6020	11C3976_P
NUC2276-01	GW-060616-MW-1	Dissolved	Ground Water	SW846 6020	11C3976_P

Prep Batch: 11C3976_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3976-BS1	11C3976-BS1	Dissolved	Water	EPA 3010A / 6020 Dissolved	
11C3976-BSD1	11C3976-BSD1	Dissolved	Water	EPA 3010A / 6020 Dissolved	
11C3976-BLK1	11C3976-BLK1	Dissolved	Water	EPA 3010A / 6020 Dissolved	
NUC2276-01	GW-060616-MW-1	Dissolved	Ground Water	EPA 3010A / 6020 Dissolved	
11C3976-MS1	NUC2490-05	Dissolved	Water	EPA 3010A / 6020 Dissolved	
11C3976-MSD1	NUC2490-05	Dissolved	Water	EPA 3010A / 6020 Dissolved	
NUC2276-01	GW-060616-MW-1	Dissolved	Ground Water	EPA 3010A / 6020 Dissolved	

Analysis Batch: 11C3983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3983-BS1	11C3983-BS1	total	Water	SW846 6020	11C3983_P
11C3983-BLK1	11C3983-BLK1	total	Water	SW846 6020	11C3983_P
NUC2276-01	GW-060616-MW-1	total	Ground Water	SW846 6020	11C3983_P
11C3983-MS1	NUC2717-03	total	Water	SW846 6020	11C3983_P
11C3983-MSD1	NUC2717-03	total	Water	SW846 6020	11C3983_P
11C3983-MS2	NUC2846-01	total	Water	SW846 6020	11C3983_P

QC Association Summary

TestAmerica Job ID: NUC2276

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

Metals (Continued)

Analysis Batch: 11C3983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3983-MSD2	NUC2846-01	total	Water	SW846 6020	11C3983_P
11C3983-BSD1	11C3983-BSD1	total	Water	SW846 6020	11C3983_P

Prep Batch: 11C3983_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3983-BS1	11C3983-BS1	total	Water	EPA 3010A / 6020	
11C3983-BLK1	11C3983-BLK1	total	Water	EPA 3010A / 6020	
NUC2276-01	GW-060616-MW-1	total	Ground Water	EPA 3010A / 6020	
11C3983-MS1	NUC2717-03	total	Water	EPA 3010A / 6020	
11C3983-MSD1	NUC2717-03	total	Water	EPA 3010A / 6020	
11C3983-MS2	NUC2846-01	total	Water	EPA 3010A / 6020	
11C3983-MSD2	NUC2846-01	total	Water	EPA 3010A / 6020	
11C3983-BSD1	11C3983-BSD1	total	Water	EPA 3010A / 6020	

WetChem

Analysis Batch: 11C3383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3383-BLK1	11C3383-BLK1	total	Water	SM3500-Cr B/D	11C3383_P
11C3383-BS1	11C3383-BS1	total	Water	SM3500-Cr B/D	11C3383_P
11C3383-DUP1	GW-060616-MW-1	total	Water	SM3500-Cr B/D	11C3383_P
11C3383-MS1	GW-060616-MW-1	total	Water	SM3500-Cr B/D	11C3383_P
11C3383-MSD1	GW-060616-MW-1	total	Water	SM3500-Cr B/D	11C3383_P
NUC2276-01	GW-060616-MW-1	total	Ground Water	SM3500-Cr B/D	11C3383_P

Prep Batch: 11C3383_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11C3383-BLK1	11C3383-BLK1	total	Water	NO PREP	
11C3383-BS1	11C3383-BS1	total	Water	NO PREP	
11C3383-DUP1	GW-060616-MW-1	total	Water	NO PREP	
11C3383-MS1	GW-060616-MW-1	total	Water	NO PREP	
11C3383-MSD1	GW-060616-MW-1	total	Water	NO PREP	
NUC2276-01	GW-060616-MW-1	total	Ground Water	NO PREP	

Lab Chronicle

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

TestAmerica Job ID: NUC2276

Client Sample ID: GW-060616-MW-1
Date Collected: 03/14/11 10:50
Date Received: 03/15/11 08:30

Lab Sample ID: NUC2276-01
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 5030B		1.00	11C4722_P	03/18/11 01:28	EML	TestAmerica Nashville
total	Analysis	SW846 8260B		1.00	U004469	03/18/11 11:23	EML	TestAmerica Nashville
total	Prep	EPA 3510C		0.980	11C3980_P	03/18/11 08:00	RCH2	TestAmerica Nashville
total	Analysis	SW846 8270CSIM		1.00	11C3980	03/18/11 12:56	BES	TestAmerica Nashville
total	Prep	EPA 5030B (GC)		1.00	11C6108_P	03/14/11 10:50	DxO	TestAmerica Nashville
total	Analysis	NWTPH-Gx		1.00	U004906	03/24/11 20:01	GWM	TestAmerica Nashville
total	Prep	EPA 3510C		0.962	11C3929_P	03/17/11 13:20	MAH	TestAmerica Nashville
total	Analysis	NWTPH-Dx		1.00	U004538	03/19/11 10:31	gmh	TestAmerica Nashville
total	Prep	EPA 8011		1.003	11C3996_P	03/17/11 09:48	rmc	TestAmerica Nashville
total	Analysis	SW846 8011		1.000	U004340	03/17/11 15:36	rmc	TestAmerica Nashville
Dissolved	Prep	EPA 3010A / 6020 Dissolved		1.00	11C3976_P	03/18/11 06:00	MET	TestAmerica Nashville
Dissolved	Analysis	SW846 6020		1.00	11C3976	03/18/11 11:57	MET	TestAmerica Nashville
total	Prep	EPA 3010A / 6020		1.00	11C3983_P	03/21/11 06:16	MET	TestAmerica Nashville
total	Analysis	SW846 6020		1.00	11C3983	03/23/11 19:44	MET	TestAmerica Nashville
Dissolved	Analysis	SW846 6020		1.00	11C3976	03/21/11 14:11	MET	TestAmerica Nashville
Dissolved	Prep	EPA 7470		1.00	11C3804_P	03/18/11 08:00	DEB	TestAmerica Nashville
Dissolved	Analysis	SW846 7470A		1.00	11C3804	03/18/11 13:07	DEB	TestAmerica Nashville
total	Prep	EPA 7470		1.00	11C3942_P	03/18/11 07:40	DEB	TestAmerica Nashville
total	Analysis	SW846 7470A		1.00	11C3942	03/18/11 14:12	DEB	TestAmerica Nashville
total	Analysis	SM3500-Cr B/D		1.00	11C3383	03/15/11 11:31	KJA	TestAmerica Nashville
total	Prep	NO PREP		1.00	11C3383_P	03/15/11 11:31	KJA	TestAmerica Nashville

Method Summary

TestAmerica Job ID: NUC2276

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

Method	Method Description	Protocol	Laboratory
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8270CSIM	Polyaromatic Hydrocarbons by EPA 8270C SIM		TAL NSH
NWTPH-Gx	Purgeable Petroleum Hydrocarbons		TAL NSH
NWTPH-Dx	Extractable Petroleum Hydrocarbons with Silica Gel Treatment		TAL NSH
SW846 8011	EDB by EPA Method 8011		TAL NSH
SW846 6020	Dissolved Metals by Method 6020		TAL NSH
SW846 6020	Total Metals by Method 6020		TAL NSH
SW846 7470A	Dissolved Mercury by EPA Methods 7470A/7471A		TAL NSH
SW846 7470A	Mercury by EPA Methods 7470A/7471A		TAL NSH
SM3500-Cr B/D	General Chemistry Parameters		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

TestAmerica Job ID: NUC2276

Laboratory	Authority	Program	EPA Region	Certification ID	* Expiration Date
TestAmerica Nashville		AIHA		100790	09/01/11
TestAmerica Nashville		USDA		S-48469	11/02/13
TestAmerica Nashville	A2LA	A2LA	0	0453.07	12/31/11
TestAmerica Nashville	A2LA	WY UST	0	453.07	12/31/11
TestAmerica Nashville	Alabama	State Program	4	41150	03/19/11
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087	07/24/11
TestAmerica Nashville	Arizona	State Program	9	AZ0473	05/05/11
TestAmerica Nashville	Arkansas	State Program	6	88-0737	04/25/11
TestAmerica Nashville	CALA	CALA	0	3744	03/08/14
TestAmerica Nashville	California	NELAC	9	1168CA	10/31/11
TestAmerica Nashville	Colorado	State Program	8	N/A	02/28/12
TestAmerica Nashville	Connecticut	State Program	1	PH-0220	12/31/11
TestAmerica Nashville	Florida	NELAC	4	E87358	06/30/11
TestAmerica Nashville	Illinois	NELAC	5	200010	12/09/11
TestAmerica Nashville	Iowa	State Program	7	131	05/01/12
TestAmerica Nashville	Kansas	NELAC	7	E-10229	10/31/11
TestAmerica Nashville	Kentucky	Kentucky UST	4	19	07/13/12
TestAmerica Nashville	Kentucky	State Program	4	90038	12/31/11
TestAmerica Nashville	Louisiana	NELAC	6	LA100011	12/31/11
TestAmerica Nashville	Louisiana	NELAC	6	30613	06/30/11
TestAmerica Nashville	Maryland	State Program	3	316	03/31/11
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032	06/30/11
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345	12/31/11
TestAmerica Nashville	Mississippi	State Program	4	N/A	06/30/11
TestAmerica Nashville	Montana	MT DEQ UST	8	NA	01/01/15
TestAmerica Nashville	Nevada	State Program	9	TN00032	07/31/11
TestAmerica Nashville	New Hampshire	NELAC	1	2963	10/09/11
TestAmerica Nashville	New Jersey	NELAC	2	TN965	06/30/11
TestAmerica Nashville	New York	NELAC	2	11342	04/01/11
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387	12/31/11
TestAmerica Nashville	North Dakota	State Program	8	R-146	06/30/11
TestAmerica Nashville	Ohio	OVAP	5	CL0033	04/01/12
TestAmerica Nashville	Oklahoma	State Program	6	9412	08/31/11
TestAmerica Nashville	Oregon	NELAC	10	TN200001	04/30/11
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585	06/30/11
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268	12/30/11
TestAmerica Nashville	South Carolina	State Program	4	84009	03/19/11
TestAmerica Nashville	South Carolina	State Program	4	84009	04/30/11
TestAmerica Nashville	Tennessee	State Program	4	2008	03/19/11
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX	08/31/11
TestAmerica Nashville	Utah	NELAC	8	TAN	06/30/11
TestAmerica Nashville	Virginia	State Program	3	00323	06/30/11
TestAmerica Nashville	Washington	State Program	10	C789	07/19/11
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219	04/30/11
TestAmerica Nashville	Wisconsin	State Program	5	998020430	08/31/11

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.
* Any expired certifications in this list are currently pending renewal and are considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER

NUC2276

Cooler Received/Opened On 3/15/2011@ 8:30

1. Tracking # 5365 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID Raynger

2. Temperature of rep. sample or temp blank when opened: 1.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES) ..NO...NA

If yes, how many and where: 1 Back

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) JH

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES..(NO)..NA

14. Was there a Trip Blank in this cooler? YES..(NO)..NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) JH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES..(NO)...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) JH

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) JH

I certify that I attached a label with the unique LIMS number to each container (intial) JH

21. Were there Non-Conformance issues at login? YES..(NO) Was a PIPE generated? YES..(NO)..#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL Houston (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER

Print Bill To Contact Name: Brian Richardson - 060616.2011.01

PO #:

INCIDENT # (ENV SERVICES): 9 7 8 0 7 2 5 6

SAP #: 1 7 4 6 6 5

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 3/14/11

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE:

ADDRESS: 20735 Belshaw Avenue, Carson, CA 90746

PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King

TELEPHONE: (310) 885-4455 x 108

FAX: (310) 637-5802

E-MAIL: lking@blainetech.com

SITE ADDRESS: Street and City: 6317 NE 4th Plain Blvd, Vancouver

State: WA

GLOBAL ID NO.: NA

EDF DELIVERABLE TO (Name, Company, Office Location): CRA, Seattle, WA

PHONE NO.: 425-563-6500

E-MAIL: Shell-US-LabDataManagement@CRAworld.com

CONSULTANT PROJECT NO.: 110314-GL1

SAMPLER NAME(S) (Print): S. Lane

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS)
- ☒ STANDARD (14 DAY)
- ☐ 5 DAYS
- ☐ 3 DAYS
- ☐ 2 DAYS
- ☐ 24 HOURS
- ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

1) Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (http://cralabeddupload.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

Copy final report to Shell.Lab.Billing@craworld.com, Shell.results@craworld.com, and Shell-US-LabDataManagement@CRAworld.com

Email invoice to Shell.Lab.Billing@craworld.com
See Laboratory PM for WA Dept. of Ecology MTCA Method A cleanup levels for minimum detection limits.

- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED

Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	PRESERVATIVE: HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	NWTPH-Gx	NWTPH-Dx w/Silica Gel Cleanup	BTEX (8260B)	5 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDC (8260B)	EDB (8011)	Total Lead (6020)	PCBs (8082)	PAHs (8070 SIM)	VOCs Full list (8260B)	Peat (8080)	NWTPH-VPH	NWTPH-EPH	n-Hexane (9071B)	Total and Dissolved RCRA 8 Metals (6020/7470A)	Hexavalent Chromium (SM 3500-CrB)	TPH-D	TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
	GW	060616	031411	SL	MW-1	1050	WG	X	X		X		15	X	X				X			X	X					X	X	X		

NUC2276
03/29/11 23:59

Relinquished by: (Signature) S. Lane

Received by: (Signature) shipped by Fed Ex

Date: 3/14/11 Time: 1700

Relinquished by: (Signature)

Received by: (Signature)

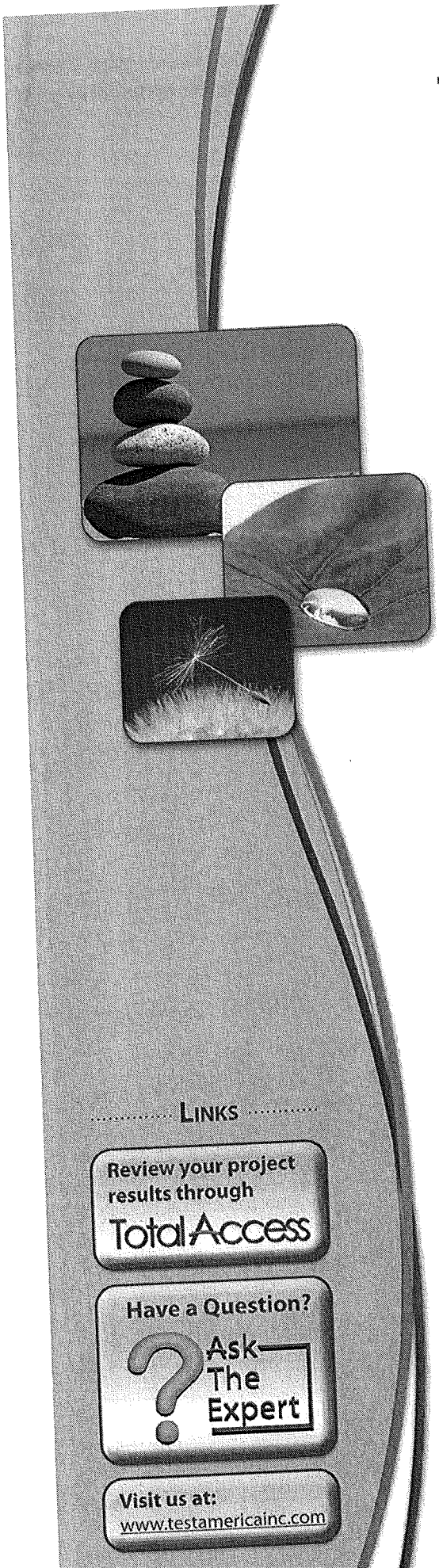
Date: 3/15/11 Time: 08:30

Relinquished by: (Signature)

Received by: (Signature)

Date: Time:

03/29/2011



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUG0179
Client Project/Site: SAP 174665
Client Project Description:
6317 NE 4th Plain Blvd, Vancouver, WA

For:
Conestoga-Rovers & Asso. (Everett)/ Shell
20818 44th Avenue West, Suite 190
Lynnwood, WA 98036

Attn: Brian Richardson

Authorized for release by:
07/18/2011 08:13:34 PM

Ryan Fitzwater
Project Manager
Ryan.Fitzwater@testamericainc.com

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.

Table of Contents

Sample Summary

TestAmerica Job ID: NUG0179

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUG0179-01	GW-060616-SL-MW-1	Ground Water	06/29/11 09:55	07/01/11 08:30

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.

GCMS Semivolatiles

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.
Z2	Surrogate recovery was above the acceptance limits. Data not impacted.

GC Semivolatiles

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

Pesticides

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

WetChem

Qualifier	Qualifier Description
H3	Sample was received and analyzed past holding time.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

Client Sample ID: GW-060616-SL-MW-1
Date Collected: 06/29/11 09:55
Date Received: 07/01/11 08:30

Lab Sample ID: NUG0179-01
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Benzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Bromobenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Bromochloromethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Bromodichloromethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Bromoform	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Bromomethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
2-Butanone	ND		50.0		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
sec-Butylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
n-Butylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
tert-Butylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Carbon disulfide	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Carbon Tetrachloride	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Chlorobenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Chlorodibromomethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Chloroethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Chloroform	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Chloromethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
2-Chlorotoluene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
4-Chlorotoluene	ND		5.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,2-Dibromo-3-chloropropane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Dibromomethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,1-Dichloroethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,2-Dichloroethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,1-Dichloroethene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,3-Dichloropropane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,2-Dichloropropane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
2,2-Dichloropropane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,1-Dichloropropene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Ethylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Hexachlorobutadiene	ND		50.0		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
2-Hexanone	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Isopropylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
p-Isopropyltoluene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Methyl tert-Butyl Ether	ND		5.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Methylene Chloride	ND		10.0		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
4-Methyl-2-pentanone	ND		5.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Naphthalene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
n-Propylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Styrene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,1,1,2-Tetrachloroethane									

Client Sample ID: GW-060616-SL-MW-1
Date Collected: 06/29/11 09:55
Date Received: 07/01/11 08:30

Lab Sample ID: NUG0179-01
Matrix: Ground Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Tetrachloroethene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Toluene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Trichloroethene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Trichlorofluoromethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Vinyl chloride	ND		1.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00
Xylenes, total	ND		3.00		ug/L		07/02/11 17:00	07/02/11 23:42	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*100*		*63 - 140*	*07/02/11 17:00*	*07/02/11 23:42*	*1.00*
Dibromofluoromethane	*109*		*73 - 131*	*07/02/11 17:00*	*07/02/11 23:42*	*1.00*
Toluene-d8	*94*		*80 - 120*	*07/02/11 17:00*	*07/02/11 23:42*	*1.00*
4-Bromofluorobenzene	*100*		*79 - 125*	*07/02/11 17:00*	*07/02/11 23:42*	*1.00*

Method: SW846 8270CSIM - Polyaromatic Hydrocarbons by EPA 8270C SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo (a) anthracene	ND		0.103		ug/L		07/02/11 11:55	07/05/11 09:17	1.00
Benzo (a) pyrene	ND		0.103		ug/L		07/02/11 11:55	07/05/11 09:17	1.00
Benzo (b) fluoranthene	ND		0.103		ug/L		07/02/11 11:55	07/05/11 09:17	1.00
Benzo (k) fluoranthene	ND		0.103		ug/L		07/02/11 11:55	07/05/11 09:17	1.00
Chrysene	ND		0.103		ug/L		07/02/11 11:55	07/05/11 09:17	1.00
Dibenz (a,h) anthracene	ND		0.103		ug/L		07/02/11 11:55	07/05/11 09:17	1.00
Indeno (1,2,3-cd) pyrene	ND		0.103		ug/L		07/02/11 11:55	07/05/11 09:17	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*81*		*27 - 120*	*07/02/11 11:55*	*07/05/11 09:17*	*1.00*
2-Fluorobiphenyl	*79*		*29 - 120*	*07/02/11 11:55*	*07/05/11 09:17*	*1.00*
Terphenyl-d14	*117*		*13 - 120*	*07/02/11 11:55*	*07/05/11 09:17*	*1.00*

Method: NWTPH-Gx - Purgeable Petroleum Hydrocarbons - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12) NW	ND		100		ug/L		06/30/11 09:55	07/13/11 16:31	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*113*		*50 - 150*	*06/30/11 09:55*	*07/13/11 16:31*	*1.00*

Method: NWTPH-Dx - Extractable Petroleum Hydrocarbons with Silica Gel Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		97.1		ug/L		07/06/11 07:30	07/08/11 07:23	1.00
Motor Oil	ND		243		ug/L		07/06/11 07:30	07/08/11 07:23	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*108*		*50 - 150*	*07/06/11 07:30*	*07/08/11 07:23*	*1.00*

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

Client Sample ID: GW-060616-SL-MW-1
Date Collected: 06/29/11 09:55
Date Received: 07/01/11 08:30

Lab Sample ID: NUG0179-01
Matrix: Ground Water

Method: SW846 8011 - EDB by EPA Method 8011

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.02006	0.005014	ug/L		07/05/11 11:18	07/07/11 23:19	1.000

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,3-Dichlorobenzene	*96*		*47 - 150*	*07/05/11 11:18*	*07/07/11 23:19*	*1.000*

Method: SW846 6020 - Dissolved Metals by Method 6020 - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.00		ug/L		07/11/11 19:54	07/13/11 21:39	1.00
Barium	10.2		2.00		ug/L		07/11/11 19:54	07/13/11 21:39	1.00
Cadmium	ND		1.00		ug/L		07/11/11 19:54	07/13/11 21:39	1.00
Chromium	ND		2.00		ug/L		07/11/11 19:54	07/13/11 21:39	1.00
Lead	ND		2.00		ug/L		07/11/11 19:54	07/13/11 21:39	1.00
Selenium	ND		2.00		ug/L		07/11/11 19:54	07/13/11 21:39	1.00
Silver	ND		2.00		ug/L		07/11/11 19:54	07/13/11 21:39	1.00

Method: SW846 6020 - Total Metals by Method 6020

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.00		ug/L		07/11/11 19:54	07/13/11 20:24	1.00
Barium	15.7		2.00		ug/L		07/11/11 19:54	07/13/11 20:24	1.00
Cadmium	ND		1.00		ug/L		07/11/11 19:54	07/13/11 20:24	1.00
Chromium	ND		2.00		ug/L		07/11/11 19:54	07/13/11 20:24	1.00
Lead	ND		2.00		ug/L		07/11/11 19:54	07/13/11 20:24	1.00
Selenium	ND		2.00		ug/L		07/11/11 19:54	07/13/11 20:24	1.00
Silver	ND		2.00		ug/L		07/11/11 19:54	07/13/11 20:24	1.00

Method: SW846 7470A - Dissolved Mercury by EPA Methods 7470A/7471A - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		07/11/11 09:55	07/12/11 10:55	1.00

Method: SW846 7470A - Mercury by EPA Methods 7470A/7471A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		07/07/11 11:00	07/08/11 11:49	1.00

Method: SM3500-Cr B/D - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (VI)	ND	H3	0.0100		mg/L		07/02/11 10:00	07/02/11 10:00	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11G0800-BLK1
Matrix: Water
Analysis Batch: U011935

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11G0800_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Benzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Bromobenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Bromochloromethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Bromodichloromethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Bromoform	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Bromomethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
2-Butanone	ND		50.0		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
sec-Butylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
n-Butylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
tert-Butylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Carbon disulfide	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Carbon Tetrachloride	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Chlorobenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Chlorodibromomethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Chloroethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Chloroform	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Chloromethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
2-Chlorotoluene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
4-Chlorotoluene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Dibromomethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,1-Dichloroethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,2-Dichloroethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,1-Dichloroethene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,3-Dichloropropane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,2-Dichloropropane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
2,2-Dichloropropane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,1-Dichloropropene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Ethylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Hexachlorobutadiene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
2-Hexanone	ND		50.0		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Isopropylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
p-Isopropyltoluene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Methylene Chloride	ND		5.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Naphthalene	ND		5.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
n-Propylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Styrene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11G0800_P

Lab Sample ID: 11G0800-BLK1
Matrix: Water
Analysis Batch: U011935

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Tetrachloroethene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Toluene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Trichloroethene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Trichlorofluoromethane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Vinyl chloride	ND		3.00		ug/L		07/02/11 17:00	07/02/11 19:24	1.00
Xylenes, total									

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*96*		*63 - 140*	*07/02/11 17:00*	*07/02/11 19:24*	*1.00*
Dibromofluoromethane	*102*		*73 - 131*	*07/02/11 17:00*	*07/02/11 19:24*	*1.00*
Toluene-d8	*95*		*80 - 120*	*07/02/11 17:00*	*07/02/11 19:24*	*1.00*
4-Bromofluorobenzene	*97*		*79 - 125*	*07/02/11 17:00*	*07/02/11 19:24*	*1.00*

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11G0800_P

Lab Sample ID: 11G0800-BS1
Matrix: Water
Analysis Batch: U011935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	310		ug/L		124	56 - 150
Benzene	50.0	52.8		ug/L		106	80 - 121
Bromobenzene	50.0	46.5		ug/L		93	72 - 130
Bromochloromethane	50.0	54.7		ug/L		109	73 - 137
Bromodichloromethane	50.0	45.4		ug/L		91	75 - 131
Bromoform	50.0	49.7		ug/L		99	65 - 140
Bromomethane	50.0	53.8		ug/L		108	50 - 150
2-Butanone	250	287		ug/L		115	70 - 144
sec-Butylbenzene	50.0	43.8		ug/L		88	72 - 140
n-Butylbenzene	50.0	46.4		ug/L		93	68 - 140
tert-Butylbenzene	50.0	44.4		ug/L		89	76 - 135
Carbon disulfide	50.0	47.2		ug/L		94	74 - 137
Carbon Tetrachloride	50.0	44.4		ug/L		89	71 - 137
Chlorobenzene	50.0	46.4		ug/L		93	80 - 121
Chlorodibromomethane	50.0	48.7		ug/L		97	68 - 137
Chloroethane	50.0	49.6		ug/L		99	50 - 146
Chloroform	50.0	46.6		ug/L		93	73 - 131
Chloromethane	50.0	39.6		ug/L		79	30 - 132
2-Chlorotoluene	50.0	42.2		ug/L		84	74 - 135
4-Chlorotoluene	50.0	43.6		ug/L		87	74 - 132
1,2-Dibromo-3-chloropropane	50.0	54.6		ug/L		109	56 - 145
1,2-Dibromoethane (EDB)	50.0	46.7		ug/L		93	80 - 135

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11G0800-BS1
Matrix: Water
Analysis Batch: U011935

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11G0800_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	50.0	49.5		ug/L		99	78 - 133
1,4-Dichlorobenzene	50.0	47.3		ug/L		95	80 - 120
1,3-Dichlorobenzene	50.0	46.7		ug/L		93	80 - 128
1,2-Dichlorobenzene	50.0	50.5		ug/L		101	80 - 125
Dichlorodifluoromethane	50.0	48.3		ug/L		97	30 - 132
1,1-Dichloroethane	50.0	46.2		ug/L		92	75 - 125
1,2-Dichloroethane	50.0	46.8		ug/L		94	70 - 134
cis-1,2-Dichloroethene	50.0	47.6		ug/L		95	71 - 132
1,1-Dichloroethene	50.0	47.2		ug/L		94	73 - 125
trans-1,2-Dichloroethene	50.0	47.8		ug/L		96	77 - 125
1,3-Dichloropropane	50.0	46.4		ug/L		93	76 - 125
1,2-Dichloropropane	50.0	43.8		ug/L		88	72 - 120
2,2-Dichloropropane	50.0	43.9		ug/L		88	50 - 150
cis-1,3-Dichloropropene	50.0	44.1		ug/L		88	70 - 140
trans-1,3-Dichloropropene	50.0	42.0		ug/L		84	62 - 139
1,1-Dichloropropene	50.0	46.2		ug/L		92	78 - 126
Ethylbenzene	50.0	44.8		ug/L		90	78 - 133
Hexachlorobutadiene	50.0	45.5		ug/L		91	70 - 150
2-Hexanone	250	250		ug/L		100	60 - 150
Isopropylbenzene	50.0	49.3		ug/L		99	69 - 120
p-Isopropyltoluene	50.0	44.2		ug/L		88	72 - 134
Methyl tert-Butyl Ether	50.0	49.8		ug/L		100	76 - 120
Methylene Chloride	50.0	56.4		ug/L		113	80 - 133
4-Methyl-2-pentanone	250	260		ug/L		104	62 - 146
Naphthalene	50.0	46.6		ug/L		93	71 - 139
n-Propylbenzene	50.0	44.3		ug/L		89	70 - 143
Styrene	50.0	46.7		ug/L		93	80 - 136
1,1,1,2-Tetrachloroethane	50.0	46.9		ug/L		94	80 - 130
1,1,2,2-Tetrachloroethane	50.0	44.7		ug/L		89	73 - 131
Tetrachloroethene	50.0	49.0		ug/L		98	77 - 131
Toluene	50.0	45.2		ug/L		90	78 - 125
1,2,3-Trichlorobenzene	50.0	48.3		ug/L		97	71 - 138
1,2,4-Trichlorobenzene	50.0	49.8		ug/L		100	74 - 136
1,1,2-Trichloroethane	50.0	48.1		ug/L		96	80 - 123
1,1,1-Trichloroethane	50.0	44.6		ug/L		89	75 - 137
Trichloroethene	50.0	52.8		ug/L		106	74 - 139
Trichlorofluoromethane	50.0	40.6		ug/L		81	60 - 133
1,2,3-Trichloropropane	50.0	48.9		ug/L		98	64 - 127
1,3,5-Trimethylbenzene	50.0	46.2		ug/L		92	75 - 134
1,2,4-Trimethylbenzene	50.0	45.7		ug/L		91	77 - 134
Vinyl chloride	50.0	45.3		ug/L		91	60 - 122
Xylenes, total	150	138		ug/L		92	78 - 134

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*102*		*63 - 140*
Dibromofluoromethane	*102*		*73 - 131*
Toluene-d8	*97*		*80 - 120*
4-Bromofluorobenzene	*96*		*79 - 125*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11G0800_P

Lab Sample ID: 11G0800-BSD1
Matrix: Water
Analysis Batch: U011935

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	250	370		ug/L		148	56 - 150	18	31
Benzene	50.0	56.5		ug/L		113	80 - 121	7	12
Bromobenzene	50.0	48.1		ug/L		96	72 - 130	3	23
Bromochloromethane	50.0	57.5		ug/L		115	73 - 137	5	32
Bromodichloromethane	50.0	47.4		ug/L		95	75 - 131	4	13
Bromoform	50.0	51.8		ug/L		104	65 - 140	4	18
Bromomethane	250	55.7		ug/L		111	50 - 150	3	50
2-Butanone	50.0	325		ug/L		130	70 - 144	12	37
sec-Butylbenzene	50.0	46.0		ug/L		92	72 - 140	5	21
n-Butylbenzene	50.0	48.8		ug/L		98	68 - 140	5	11
tert-Butylbenzene	50.0	45.2		ug/L		90	76 - 135	2	20
Carbon disulfide	50.0	50.1		ug/L		100	74 - 137	6	28
Carbon Tetrachloride	50.0	47.4		ug/L		95	71 - 137	7	26
Chlorobenzene	50.0	48.5		ug/L		97	80 - 121	4	11
Chlorodibromomethane	50.0	51.8		ug/L		104	68 - 137	6	16
Chloroethane	50.0	53.5		ug/L		107	50 - 146	7	35
Chloroform	50.0	49.7		ug/L		99	73 - 131	6	32
Chloromethane	50.0	41.7		ug/L		83	30 - 132	5	34
2-Chlorotoluene	50.0	43.6		ug/L		87	74 - 135	3	22
4-Chlorotoluene	50.0	45.2		ug/L		90	74 - 132	4	22
1,2-Dibromo-3-chloropropane	50.0	48.5		ug/L		97	56 - 145	12	21
1,2-Dibromoethane (EDB)	50.0	48.6		ug/L		97	80 - 135	4	10
Dibromomethane	50.0	54.0		ug/L		108	78 - 133	9	11
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120	4	10
1,3-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 128	5	18
1,2-Dichlorobenzene	50.0	52.9		ug/L		106	80 - 125	5	11
Dichlorodifluoromethane	50.0	51.9		ug/L		104	30 - 132	7	32
1,1-Dichloroethane	50.0	48.4		ug/L		97	75 - 125	5	34
1,2-Dichloroethane	50.0	49.0		ug/L		98	70 - 134	5	25
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	71 - 132	5	32
1,1-Dichloroethene	50.0	50.0		ug/L		100	73 - 125	6	31
trans-1,2-Dichloroethene	50.0	50.8		ug/L		102	77 - 125	6	32
1,3-Dichloropropane	50.0	48.4		ug/L		97	76 - 125	4	20
1,2-Dichloropropane	50.0	45.9		ug/L		92	72 - 120	5	11
2,2-Dichloropropane	50.0	46.6		ug/L		93	50 - 150	6	11
cis-1,3-Dichloropropene	50.0	46.0		ug/L		92	70 - 140	4	35
trans-1,3-Dichloropropene	50.0	44.4		ug/L		89	62 - 139	6	26
1,1-Dichloropropene	50.0	48.4		ug/L		97	78 - 126	5	18
Ethylbenzene	50.0	46.5		ug/L		93	78 - 133	4	12
Hexachlorobutadiene	50.0	46.8		ug/L		94	70 - 150	3	21
2-Hexanone	250	272		ug/L		109	60 - 150	9	20
Isopropylbenzene	50.0	51.8		ug/L		104	69 - 120	5	15
p-Isopropyltoluene	50.0	46.4		ug/L		93	72 - 134	5	18
Methyl tert-Butyl Ether	50.0	52.9		ug/L		106	76 - 120	6	32
Methylene Chloride	50.0	60.0		ug/L		120	80 - 133	6	36
4-Methyl-2-pentanone	250	275		ug/L		110	62 - 146	6	35
Naphthalene	50.0	47.3		ug/L		95	71 - 139	1	30
n-Propylbenzene	50.0	46.0		ug/L		92	70 - 143	4	23
Styrene		49.2		ug/L		98	80 - 136	5	29

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11G0800-BSD1
Matrix: Water
Analysis Batch: U011935

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11G0800_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	49.1		ug/L		98	80 - 130	5	11
1,1,2,2-Tetrachloroethane	50.0	47.0		ug/L		94	73 - 131	5	28
Tetrachloroethene	50.0	51.4		ug/L		103	77 - 131	5	16
Toluene	50.0	47.9		ug/L		96	78 - 125	6	35
1,2,3-Trichlorobenzene	50.0	48.7		ug/L		97	71 - 138	0.9	28
1,2,4-Trichlorobenzene	50.0	47.9		ug/L		96	74 - 136	4	23
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	80 - 123	4	21
1,1,1-Trichloroethane	50.0	47.4		ug/L		95	75 - 137	6	29
Trichloroethene	50.0	55.7		ug/L		111	74 - 139	5	11
Trichlorofluoromethane	50.0	44.2		ug/L		88	60 - 133	8	33
1,2,3-Trichloropropane	50.0	52.4		ug/L		105	64 - 127	7	25
1,3,5-Trimethylbenzene	50.0	48.2		ug/L		96	75 - 134	4	21
1,2,4-Trimethylbenzene	50.0	47.0		ug/L		94	77 - 134	3	20
Vinyl chloride	50.0	48.6		ug/L		97	60 - 122	7	32
Xylenes, total	150	143		ug/L		96	78 - 134	4	18

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*101*		*63 - 140*
Dibromofluoromethane	*102*		*73 - 131*
Toluene-d8	*98*		*80 - 120*
4-Bromofluorobenzene	*93*		*79 - 125*

Lab Sample ID: 11G0800-MS1
Matrix: Water
Analysis Batch: U011935

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11G0800_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	ND		1250	1810		ug/L		145	56 - 150
Benzene	ND		250	379		ug/L		151	65 - 151
Bromobenzene	ND		250	265		ug/L		106	69 - 142
Bromochloromethane	ND		250	316		ug/L		127	64 - 154
Bromodichloromethane	ND		250	262		ug/L		105	75 - 138
Bromoform	ND		250	284		ug/L		114	55 - 153
Bromomethane	ND		250	177		ug/L		71	13 - 176
2-Butanone	ND		1250	1730		ug/L		138	45 - 164
sec-Butylbenzene	ND		250	269		ug/L		108	68 - 159
n-Butylbenzene	13.9		250	300		ug/L		115	67 - 151
tert-Butylbenzene	ND		250	264		ug/L		105	73 - 153
Carbon disulfide	ND		250	209		ug/L		83	33 - 187
Carbon Tetrachloride	ND		250	261		ug/L		104	64 - 157
Chlorobenzene	ND		250	269		ug/L		108	78 - 136
Chlorodibromomethane	ND		250	276		ug/L		110	64 - 145
Chloroethane	ND		250	337		ug/L		135	48 - 159
Chloroform	ND		250	279		ug/L		112	72 - 145
Chloromethane	ND		250	202		ug/L		81	10 - 194
2-Chlorotoluene	ND		250	278		ug/L		111	66 - 155
4-Chlorotoluene	ND		250	255		ug/L		102	69 - 149
1,2-Dibromo-3-chloropropane	ND		250	321		ug/L		128	49 - 162
1,2-Dibromoethane (EDB)	ND		250	270		ug/L		108	70 - 152

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11G0800-MS1
Matrix: Water
Analysis Batch: U011935

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11G0800_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Dibromomethane	ND		250	292		ug/L		117	75 - 141
1,4-Dichlorobenzene	ND		250	277		ug/L		111	75 - 135
1,3-Dichlorobenzene	ND		250	279		ug/L		112	72 - 146
1,2-Dichlorobenzene	ND		250	303		ug/L		121	80 - 136
Dichlorodifluoromethane	ND		250	228		ug/L		91	23 - 159
1,1-Dichloroethane	ND		250	272		ug/L		109	64 - 154
1,2-Dichloroethane	ND		250	273		ug/L		109	72 - 137
cis-1,2-Dichloroethene	ND		250	276		ug/L		110	57 - 154
1,1-Dichloroethene	ND		250	268		ug/L		107	34 - 151
trans-1,2-Dichloroethene	ND		250	256		ug/L		103	57 - 157
1,3-Dichloropropane	ND		250	272		ug/L		109	71 - 137
1,2-Dichloropropane	ND		250	256		ug/L		102	71 - 139
2,2-Dichloropropane	ND		250	277		ug/L		111	10 - 198
cis-1,3-Dichloropropene	ND		250	247		ug/L		99	56 - 156
trans-1,3-Dichloropropene	ND		250	239		ug/L		96	47 - 157
1,1-Dichloropropene	ND		250	264		ug/L		105	70 - 155
Ethylbenzene	9.75		250	329		ug/L		128	68 - 157
Hexachlorobutadiene	ND		250	285		ug/L		114	47 - 173
2-Hexanone	ND		1250	1510		ug/L		121	57 - 154
Isopropylbenzene	3.20		250	306		ug/L		121	69 - 139
p-Isopropyltoluene	ND		250	265		ug/L		106	69 - 151
Methyl tert-Butyl Ether	ND		250	289		ug/L		116	56 - 152
Methylene Chloride	ND		250	328		ug/L		131	71 - 136
4-Methyl-2-pentanone	ND		1250	1590		ug/L		127	62 - 159
Naphthalene	8.65		250	294		ug/L		114	56 - 161
n-Propylbenzene	9.65		250	269		ug/L		104	61 - 167
Styrene	ND		250	289		ug/L		116	69 - 150
1,1,1,2-Tetrachloroethane	ND		250	280		ug/L		112	80 - 140
1,1,2,2-Tetrachloroethane	ND		250	283		ug/L		113	76 - 141
Tetrachloroethene	ND		250	278		ug/L		111	63 - 155
Toluene	5.00		250	265		ug/L		104	61 - 153
1,2,3-Trichlorobenzene	ND		250	278		ug/L		111	57 - 155
1,2,4-Trichlorobenzene	ND		250	298		ug/L		119	64 - 147
1,1,2-Trichloroethane	ND		250	284		ug/L		114	74 - 138
1,1,1-Trichloroethane	ND		250	269		ug/L		107	78 - 153
Trichloroethene	ND		250	286		ug/L		114	74 - 139
Trichlorofluoromethane	ND		250	250		ug/L		100	53 - 149
1,2,3-Trichloropropane	ND		250	301		ug/L		121	49 - 148
1,3,5-Trimethylbenzene	87.6		250	353		ug/L		106	67 - 151
1,2,4-Trimethylbenzene	234		250	473		ug/L		95	69 - 150
Vinyl chloride	ND		250	230		ug/L		92	53 - 137
Xylenes, total	171		750	1470	M7	ug/L		173	68 - 158

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*96*		*63 - 140*
Dibromofluoromethane	*104*		*73 - 131*
Toluene-d8	*96*		*80 - 120*
4-Bromofluorobenzene	*94*		*79 - 125*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11G0800-MSD1
Matrix: Water
Analysis Batch: U011935

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11G0800_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	ND		1250	1980	M7	ug/L		158	56 - 150	9	31
Benzene	ND		250	328	R2	ug/L		131	65 - 151	14	12
Bromobenzene	ND		250	279		ug/L		112	69 - 142	5	23
Bromochloromethane	ND		250	340		ug/L		136	64 - 154	7	32
Bromodichloromethane	ND		250	283		ug/L		113	75 - 138	8	13
Bromoform	ND		250	309		ug/L		124	55 - 153	8	18
Bromomethane	ND		250	229		ug/L		92	13 - 176	25	50
2-Butanone	ND		1250	1890		ug/L		151	45 - 164	9	37
sec-Butylbenzene	ND		250	276		ug/L		110	68 - 159	3	21
n-Butylbenzene	13.9		250	306		ug/L		117	67 - 151	2	11
tert-Butylbenzene	ND		250	274		ug/L		110	73 - 153	4	20
Carbon disulfide	ND		250	216		ug/L		86	33 - 187	3	28
Carbon Tetrachloride	ND		250	275		ug/L		110	64 - 157	5	26
Chlorobenzene	ND		250	284		ug/L		113	78 - 136	5	11
Chlorodibromomethane	ND		250	303		ug/L		121	64 - 145	9	16
Chloroethane	ND		250	331		ug/L		132	48 - 159	2	35
Chloroform	ND		250	292		ug/L		117	72 - 145	5	32
Chloromethane	ND		250	199		ug/L		79	10 - 194	2	34
2-Chlorotoluene	ND		250	287		ug/L		115	66 - 155	3	22
4-Chlorotoluene	ND		250	267		ug/L		107	69 - 149	5	22
1,2-Dibromo-3-chloropropane	ND		250	347		ug/L		139	49 - 162	8	21
1,2-Dibromoethane (EDB)	ND		250	294		ug/L		117	70 - 152	8	10
Dibromomethane	ND		250	316		ug/L		126	75 - 141	8	11
1,4-Dichlorobenzene	ND		250	293		ug/L		117	75 - 135	6	10
1,3-Dichlorobenzene	ND		250	295		ug/L		118	72 - 146	6	18
1,2-Dichlorobenzene	ND		250	320		ug/L		128	80 - 136	6	11
Dichlorodifluoromethane	ND		250	229		ug/L		92	23 - 159	0.2	32
1,1-Dichloroethane	ND		250	284		ug/L		114	64 - 154	4	34
1,2-Dichloroethane	ND		250	290		ug/L		116	72 - 137	6	25
cis-1,2-Dichloroethene	ND		250	291		ug/L		116	57 - 154	5	32
1,1-Dichloroethene	ND		250	270		ug/L		108	34 - 151	0.5	31
trans-1,2-Dichloroethene	ND		250	269		ug/L		107	57 - 157	5	32
1,3-Dichloropropane	ND		250	285		ug/L		114	71 - 137	5	20
1,2-Dichloropropane	ND		250	269		ug/L		107	71 - 139	5	11
2,2-Dichloropropane	ND		250	282		ug/L		113	10 - 198	2	11
cis-1,3-Dichloropropene	ND		250	263		ug/L		105	56 - 156	6	35
trans-1,3-Dichloropropene	ND		250	254		ug/L		101	47 - 157	6	26
1,1-Dichloropropene	ND		250	273		ug/L		109	70 - 155	3	18
Ethylbenzene	9.75		250	296		ug/L		114	68 - 157	10	12
Hexachlorobutadiene	ND		250	294		ug/L		118	47 - 173	3	21
2-Hexanone	ND		1250	1610		ug/L		129	57 - 154	7	20
Isopropylbenzene	3.20		250	311		ug/L		123	69 - 139	2	15
p-Isopropyltoluene	ND		250	271		ug/L		109	69 - 151	3	18
Methyl tert-Butyl Ether	ND		250	311		ug/L		125	56 - 152	7	32
Methylene Chloride	ND		250	341		ug/L		136	71 - 136	4	36
4-Methyl-2-pentanone	ND		1250	1700		ug/L		136	62 - 159	7	35
Naphthalene	8.65		250	315		ug/L		122	56 - 161	7	30
n-Propylbenzene	9.65		250	276		ug/L		107	61 - 167	3	23
Styrene	ND		250	294		ug/L		118	69 - 150	2	29

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11G0800_P

Lab Sample ID: 11G0800-MSD1
Matrix: Water
Analysis Batch: U011935

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		250	296		ug/L		118	80 - 140	6	11
1,1,2,2-Tetrachloroethane	ND		250	300		ug/L		120	76 - 141	6	28
Tetrachloroethene	ND		250	285		ug/L		114	63 - 155	2	16
Toluene	5.00		250	274		ug/L		108	61 - 153	4	35
1,2,3-Trichlorobenzene	ND		250	295		ug/L		118	57 - 155	6	28
1,2,4-Trichlorobenzene	ND		250	316		ug/L		126	64 - 147	6	23
1,1,2-Trichloroethane	ND		250	309		ug/L		124	74 - 138	8	21
1,1,1-Trichloroethane	ND		250	274		ug/L		110	78 - 153	2	29
Trichloroethene	ND		250	302		ug/L		121	74 - 139	5	11
Trichlorofluoromethane	ND		250	256		ug/L		103	53 - 149	2	33
1,2,3-Trichloropropane	ND		250	325		ug/L		130	49 - 148	8	25
1,3,5-Trimethylbenzene	87.6		250	366		ug/L		111	67 - 151	3	21
1,2,4-Trimethylbenzene	234		250	498		ug/L		105	69 - 150	5	20
Vinyl chloride	ND		250	232		ug/L		93	53 - 137	0.6	32
Xylenes, total	171		750	1150	R2	ug/L		130	68 - 158	25	18

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*109*		*63 - 140*
Dibromofluoromethane	*105*		*73 - 131*
Toluene-d8	*97*		*80 - 120*
4-Bromofluorobenzene	*92*		*79 - 125*

Method: SW846 8270CSIM - Polyaromatic Hydrocarbons by EPA 8270C SIM

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11G0343_P

Lab Sample ID: 11G0343-BLK1
Matrix: Water
Analysis Batch: 11G0343

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Acenaphthylene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Anthracene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Benzo (a) anthracene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Benzo (a) pyrene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Benzo (b) fluoranthene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Benzo (g,h,i) perylene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Benzo (k) fluoranthene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Chrysene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Dibenz (a,h) anthracene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Fluoranthene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Fluorene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Indeno (1,2,3-cd) pyrene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
1-Methylnaphthalene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
2-Methylnaphthalene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Naphthalene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Phenanthrene	ND		0.100		ug/L		07/02/11 11:55	07/05/11 06:48	1.00
Pyrene									

Method: SW846 8270CSIM - Polyaromatic Hydrocarbons by EPA 8270C SIM (Continued)

Lab Sample ID: 11G0343-BLK1
Matrix: Water
Analysis Batch: 11G0343

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11G0343_P

Surrogate	Blank % Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	77		27 - 120	07/02/11 11:55	07/05/11 06:48	1.00
2-Fluorobiphenyl	79		29 - 120	07/02/11 11:55	07/05/11 06:48	1.00
Terphenyl-d14	125	Z2	13 - 120	07/02/11 11:55	07/05/11 06:48	1.00

Lab Sample ID: 11G0343-BS1
Matrix: Water
Analysis Batch: 11G0343

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11G0343_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.00	0.820	MNR1	ug/L		82	43 - 122
Acenaphthylene	1.00	0.850	MNR1	ug/L		85	43 - 129
Anthracene	1.00	0.810	MNR1	ug/L		81	50 - 138
Benzo (a) anthracene	1.00	0.890	MNR1	ug/L		89	50 - 135
Benzo (a) pyrene	1.00	0.940	MNR1	ug/L		94	46 - 136
Benzo (b) fluoranthene	1.00	0.820	MNR1	ug/L		82	37 - 147
Benzo (g,h,i) perylene	1.00	0.730	MNR1	ug/L		73	30 - 145
Benzo (k) fluoranthene	1.00	0.850	MNR1	ug/L		85	47 - 135
Chrysene	1.00	0.870	MNR1	ug/L		87	47 - 138
Dibenz (a,h) anthracene	1.00	0.850	MNR1	ug/L		85	36 - 144
Fluoranthene	1.00	0.790	MNR1	ug/L		79	51 - 139
Fluorene	1.00	0.830	MNR1	ug/L		83	47 - 128
Indeno (1,2,3-cd) pyrene	1.00	0.860	MNR1	ug/L		86	32 - 142
1-Methylnaphthalene	1.00	0.660	MNR1	ug/L		66	37 - 126
2-Methylnaphthalene	1.00	0.780	MNR1	ug/L		78	41 - 121
Naphthalene	1.00	0.890	MNR1	ug/L		89	38 - 120
Phenanthrene	1.00	0.920	MNR1	ug/L		92	45 - 133
Pyrene	1.00	0.930	MNR1	ug/L		93	50 - 146

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	73		27 - 120
2-Fluorobiphenyl	76		29 - 120
Terphenyl-d14	113		13 - 120

Lab Sample ID: 11G0343-BSD1
Matrix: Water
Analysis Batch: 11G0343

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11G0343_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	1.00	0.820		ug/L		82	43 - 122	0	35
Acenaphthylene	1.00	0.870		ug/L		87	43 - 129	2	31
Anthracene	1.00	0.820		ug/L		82	50 - 138	1	38
Benzo (a) anthracene	1.00	0.870		ug/L		87	50 - 135	2	50
Benzo (a) pyrene	1.00	0.940		ug/L		94	46 - 136	0	50
Benzo (b) fluoranthene	1.00	0.800		ug/L		80	37 - 147	2	50
Benzo (g,h,i) perylene	1.00	0.710		ug/L		71	30 - 145	3	50
Benzo (k) fluoranthene	1.00	0.870		ug/L		87	47 - 135	2	50
Chrysene	1.00	0.880		ug/L		88	47 - 138	1	50
Dibenz (a,h) anthracene	1.00	0.830		ug/L		83	36 - 144	2	50
Fluoranthene	1.00	0.770		ug/L		77	51 - 139	3	40

Method: SW846 8270CSIM - Polyaromatic Hydrocarbons by EPA 8270C SIM (Continued)

Lab Sample ID: 11G0343-BSD1
Matrix: Water
Analysis Batch: 11G0343

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11G0343_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Fluorene	1.00	0.850		ug/L		85	47 - 128	2	39
Indeno (1,2,3-cd) pyrene	1.00	0.840		ug/L		84	32 - 142	2	50
1-Methylnaphthalene	1.00	0.660		ug/L		66	37 - 126	0	27
2-Methylnaphthalene	1.00	0.780		ug/L		78	41 - 121	0	29
Naphthalene	1.00	0.880		ug/L		88	38 - 120	1	32
Phenanthrene	1.00	0.940		ug/L		94	45 - 133	2	47
Pyrene	1.00	0.950		ug/L		95	50 - 146	2	37

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
Nitrobenzene-d5	*73*		*27 - 120*
2-Fluorobiphenyl	*76*		*29 - 120*
Terphenyl-d14	*116*		*13 - 120*

Method: NWTPH-Gx - Purgeable Petroleum Hydrocarbons

Lab Sample ID: 11G2708-BLK1
Matrix: Water
Analysis Batch: U012455

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11G2708_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12) NW	ND		100		ug/L		07/13/11 00:00	07/13/11 14:36	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*119*		*50 - 150*	*07/13/11 00:00*	*07/13/11 14:36*	*1.00*

Lab Sample ID: 11G2708-BS1
Matrix: Water
Analysis Batch: U012455

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11G2708_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
GRO (C4-C12) NW	1000	1080		ug/L		108	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*110*		*50 - 150*

Method: NWTPH-Dx - Extractable Petroleum Hydrocarbons with Silica Gel Treatment

Lab Sample ID: 11G0629-BLK1
Matrix: Water
Analysis Batch: U012145

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11G0629_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	ND		100		ug/L		07/06/11 07:30	07/08/11 05:46	1.00
Motor Oil	ND		250		ug/L		07/06/11 07:30	07/08/11 05:46	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*141*		*50 - 150*	*07/06/11 07:30*	*07/08/11 05:46*	*1.00*

Method: NWTPH-Dx - Extractable Petroleum Hydrocarbons with Silica Gel Treatment (Continued)

Lab Sample ID: 11G0629-BS1
Matrix: Water
Analysis Batch: U012145

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11G0629_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel	1000	919	MNR1	ug/L		92	57 - 132

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*98*		*50 - 150*

Method: SW846 8011 - EDB by EPA Method 8011

Lab Sample ID: 11G0664-BLK1
Matrix: Water
Analysis Batch: U012055

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11G0664_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.02000	0.005000	ug/L		07/05/11 11:18	07/07/11 17:50	1.000

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,3-Dichlorobenzene	*82*		*47 - 150*	*07/05/11 11:18*	*07/07/11 17:50*	*1.000*

Lab Sample ID: 11G0664-BS1
Matrix: Water
Analysis Batch: U012055

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11G0664_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,2-Dibromoethane (EDB)	0.571	0.6286	MNR1	ug/L		110	56 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,3-Dichlorobenzene	*108*		*47 - 150*

Method: SW846 6020 - Total Metals by Method 6020

Lab Sample ID: 11G2312-BLK1
Matrix: Water
Analysis Batch: 11G2312

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11G2312_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.00		ug/L		07/11/11 19:54	07/13/11 20:21	1.00
Barium	ND		2.00		ug/L		07/11/11 19:54	07/13/11 20:21	1.00
Cadmium	ND		1.00		ug/L		07/11/11 19:54	07/13/11 20:21	1.00
Chromium	ND		2.00		ug/L		07/11/11 19:54	07/13/11 20:21	1.00
Lead	ND		2.00		ug/L		07/11/11 19:54	07/13/11 20:21	1.00
Selenium	ND		2.00		ug/L		07/11/11 19:54	07/13/11 20:21	1.00
Silver	ND		2.00		ug/L		07/11/11 19:54	07/13/11 20:21	1.00

Lab Sample ID: 11G2312-BS1
Matrix: Water
Analysis Batch: 11G2312

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11G2312_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	100	89.3		ug/L		89	80 - 120

Method: SW846 6020 - Total Metals by Method 6020 (Continued)

Lab Sample ID: 11G2312-BS1
Matrix: Water
Analysis Batch: 11G2312

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11G2312_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Barium	100	90.3		ug/L		90	80 - 120
Cadmium	100	92.4		ug/L		92	80 - 120
Chromium	100	99.4		ug/L		99	80 - 120
Lead	100	93.0		ug/L		93	80 - 120
Selenium	100	87.6		ug/L		88	80 - 120
Silver	100	108		ug/L		108	80 - 120

Lab Sample ID: 11G2312-MS1
Matrix: Water
Analysis Batch: 11G2312

Client Sample ID: GW-060616-SL-MW-1
Prep Type: Total
Prep Batch: 11G2312_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	0.510		100	89.3		ug/L		89	75 - 125
Barium	15.7		100	112		ug/L		97	75 - 125
Cadmium	ND		100	93.6		ug/L		94	75 - 125
Chromium	1.12		100	99.3		ug/L		98	75 - 125
Lead	0.300		100	98.0		ug/L		98	75 - 125
Selenium	ND		100	87.3		ug/L		87	75 - 125
Silver	ND		100	120		ug/L		120	75 - 125

Lab Sample ID: 11G2312-MSD1
Matrix: Water
Analysis Batch: 11G2312

Client Sample ID: GW-060616-SL-MW-1
Prep Type: Total
Prep Batch: 11G2312_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	0.510		100	88.9		ug/L		88	75 - 125	0.4	20
Barium	15.7		100	110		ug/L		95	75 - 125	2	20
Cadmium	ND		100	93.0		ug/L		93	75 - 125	0.7	20
Chromium	1.12		100	99.8		ug/L		99	75 - 125	0.5	20
Lead	0.300		100	97.0		ug/L		97	75 - 125	1	20
Selenium	ND		100	87.3		ug/L		87	75 - 125	0.03	20
Silver	ND		100	121		ug/L		121	75 - 125	0.6	20

Method: SW846 6020 - Dissolved Metals by Method 6020

Lab Sample ID: 11G2314-BLK1
Matrix: Water
Analysis Batch: 11G2314

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 11G2314_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.00		ug/L		07/11/11 19:54	07/13/11 21:36	1.00
Barium	ND		2.00		ug/L		07/11/11 19:54	07/13/11 21:36	1.00
Cadmium	ND		1.00		ug/L		07/11/11 19:54	07/13/11 21:36	1.00
Chromium	ND		2.00		ug/L		07/11/11 19:54	07/13/11 21:36	1.00
Lead	ND		2.00		ug/L		07/11/11 19:54	07/13/11 21:36	1.00
Selenium	ND		2.00		ug/L		07/11/11 19:54	07/13/11 21:36	1.00
Silver	ND		2.00		ug/L		07/11/11 19:54	07/13/11 21:36	1.00

Method: SW846 6020 - Dissolved Metals by Method 6020 (Continued)

Lab Sample ID: 11G2314-BS1
Matrix: Water
Analysis Batch: 11G2314

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 11G2314_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	100	89.9		ug/L		90	80 - 120
Barium	100	98.1		ug/L		98	80 - 120
Cadmium	100	93.2		ug/L		93	80 - 120
Chromium	100	100		ug/L		100	80 - 120
Lead	100	98.6		ug/L		99	80 - 120
Selenium	100	88.6		ug/L		89	80 - 120
Silver	100	109		ug/L		109	80 - 120

Lab Sample ID: 11G2314-MS1
Matrix: Water
Analysis Batch: 11G2314

Client Sample ID: GW-060616-SL-MW-1
Prep Type: Dissolved
Prep Batch: 11G2314_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	0.300		100	90.0		ug/L		90	75 - 125
Barium	10.2		100	108		ug/L		98	75 - 125
Cadmium	ND		100	93.1		ug/L		93	75 - 125
Chromium	0.390		100	98.8		ug/L		98	75 - 125
Lead	ND		100	97.2		ug/L		97	75 - 125
Selenium	ND		100	87.2		ug/L		87	75 - 125
Silver	ND		100	108		ug/L		108	75 - 125

Lab Sample ID: 11G2314-MSD1
Matrix: Water
Analysis Batch: 11G2314

Client Sample ID: GW-060616-SL-MW-1
Prep Type: Dissolved
Prep Batch: 11G2314_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	0.300		100	88.8		ug/L		89	75 - 125	1	20
Barium	10.2		100	108		ug/L		98	75 - 125	0.4	20
Cadmium	ND		100	93.0		ug/L		93	75 - 125	0.1	20
Chromium	0.390		100	97.8		ug/L		97	75 - 125	0.9	20
Lead	ND		100	97.3		ug/L		97	75 - 125	0.07	20
Selenium	ND		100	87.5		ug/L		87	75 - 125	0.3	20
Silver	ND		100	120		ug/L		120	75 - 125	10	20

Method: SW846 7470A - Mercury by EPA Methods 7470A/7471A

Lab Sample ID: 11G1159-BLK1
Matrix: Water
Analysis Batch: U012242

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11G1159_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		07/07/11 11:00	07/08/11 11:12	1.00

Lab Sample ID: 11G1159-BS1
Matrix: Water
Analysis Batch: U012242

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11G1159_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.00100	0.000966		mg/L		97	80 - 120

Method: SW846 7470A - Mercury by EPA Methods 7470A/7471A (Continued)

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11G1159_P

Lab Sample ID: 11G1159-BSD1
Matrix: Water
Analysis Batch: U012242

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.00100	0.000899		mg/L		90	80 - 120	7	20

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11G1159_P

Lab Sample ID: 11G1159-MS1
Matrix: Water
Analysis Batch: U012242

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	ND		0.00100	0.00100		mg/L		100	75 - 125

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11G1159_P

Lab Sample ID: 11G1159-MSD1
Matrix: Water
Analysis Batch: U012242

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.000971		mg/L		97	75 - 125	3	20

Method: SW846 7470A - Dissolved Mercury by EPA Methods 7470A/7471A

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 11G2092_P

Lab Sample ID: 11G2092-BLK1
Matrix: Water
Analysis Batch: 11G2092

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		07/11/11 09:55	07/12/11 10:50	1.00

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 11G2092_P

Lab Sample ID: 11G2092-BS1
Matrix: Water
Analysis Batch: 11G2092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.00100	0.00101		mg/L		101	80 - 120

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 11G2092_P

Lab Sample ID: 11G2092-MS1
Matrix: Water
Analysis Batch: 11G2092

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	ND		0.00100	0.00112		mg/L		112	75 - 125

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 11G2092_P

Lab Sample ID: 11G2092-MSD1
Matrix: Water
Analysis Batch: 11G2092

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.00108		mg/L		108	75 - 125	4	20

Method: SM3500-Cr B/D - General Chemistry Parameters

Lab Sample ID: 11G0281-BLK1
Matrix: Water
Analysis Batch: 11G0281

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11G0281_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (VI)	ND		0.0100		mg/L		07/02/11 10:00	07/02/11 10:00	1.00

Lab Sample ID: 11G0281-DUP1
Matrix: Water
Analysis Batch: 11G0281

Client Sample ID: GW-060616-SL-MW-1
Prep Type: Total
Prep Batch: 11G0281_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Chromium (VI)	ND	H3	ND		mg/L			10

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

GCMS Volatiles

Analysis Batch: U011935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0800-BS1	Lab Control Sample	Total	Water	SW846 8260B	11G0800_P
11G0800-BSD1	Lab Control Sample Dup	Total	Water	SW846 8260B	11G0800_P
11G0800-BLK1	Method Blank	Total	Water	SW846 8260B	11G0800_P
NUG0179-01	GW-060616-SL-MW-1	Total	Ground Water	SW846 8260B	11G0800_P
11G0800-MS1	Matrix Spike	Total	Water	SW846 8260B	11G0800_P
11G0800-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11G0800_P

Prep Batch: 11G0800_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0800-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11G0800-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
11G0800-BLK1	Method Blank	Total	Water	EPA 5030B	
NUG0179-01	GW-060616-SL-MW-1	Total	Ground Water	EPA 5030B	
11G0800-MS1	Matrix Spike	Total	Water	EPA 5030B	
11G0800-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	

GCMS Semivolatiles

Analysis Batch: 11G0343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0343-BLK1	Method Blank	Total	Water	SW846	11G0343_P
				8270CSIM	
11G0343-BS1	Lab Control Sample	Total	Water	SW846	11G0343_P
				8270CSIM	
11G0343-BSD1	Lab Control Sample Dup	Total	Water	SW846	11G0343_P
				8270CSIM	
NUG0179-01	GW-060616-SL-MW-1	Total	Ground Water	SW846	
				8270CSIM	

Prep Batch: 11G0343_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0343-BLK1	Method Blank	Total	Water	EPA 3510C	
11G0343-BS1	Lab Control Sample	Total	Water	EPA 3510C	
11G0343-BSD1	Lab Control Sample Dup	Total	Water	EPA 3510C	
NUG0179-01	GW-060616-SL-MW-1	Total	Ground Water	EPA 3510C	

GC Volatiles

Analysis Batch: U012455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G2708-BS1	Lab Control Sample	Total	Water	NWTPH-Gx	11G2708_P
11G2708-BLK1	Method Blank	Total	Water	NWTPH-Gx	11G2708_P
NUG0179-01 - RE1	GW-060616-SL-MW-1	Total	Ground Water	NWTPH-Gx	11G2708_P

Prep Batch: 11G2708_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G2708-BS1	Lab Control Sample	Total	Water	EPA 5030B (GC)	
11G2708-BLK1	Method Blank	Total	Water	EPA 5030B (GC)	
NUG0179-01 - RE1	GW-060616-SL-MW-1	Total	Ground Water	EPA 5030B (GC)	

QC Association Summary

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

TestAmerica Job ID: NUG0179

GC Semivolatiles

Analysis Batch: U012145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0629-BLK1	Method Blank	Total	Water	NWTPH-Dx	11G0629_P
11G0629-BS1	Lab Control Sample	Total	Water	NWTPH-Dx	11G0629_P
NUG0179-01	GW-060616-SL-MW-1	Total	Ground Water	NWTPH-Dx	11G0629_P

Prep Batch: 11G0629_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0629-BLK1	Method Blank	Total	Water	EPA 3510C	
11G0629-BS1	Lab Control Sample	Total	Water	EPA 3510C	
NUG0179-01	GW-060616-SL-MW-1	Total	Ground Water	EPA 3510C	

Pesticides

Analysis Batch: U012055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0664-BLK1	Method Blank	Total	Water	SW846 8011	11G0664_P
11G0664-BS1	Lab Control Sample	Total	Water	SW846 8011	11G0664_P
NUG0179-01	GW-060616-SL-MW-1	Total	Ground Water	SW846 8011	11G0664_P

Prep Batch: 11G0664_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0664-BLK1	Method Blank	Total	Water	EPA 8011	
11G0664-BS1	Lab Control Sample	Total	Water	EPA 8011	
NUG0179-01	GW-060616-SL-MW-1	Total	Ground Water	EPA 8011	

Metals

Analysis Batch: 11G1159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUG0179-01	GW-060616-SL-MW-1	Total	Ground Water	SW846 7470A	11G1159_P

Analysis Batch: 11G2092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G2092-BLK1	Method Blank	Dissolved	Water	SW846 7470A	11G2092_P
11G2092-BS1	Lab Control Sample	Dissolved	Water	SW846 7470A	11G2092_P
NUG0179-01	GW-060616-SL-MW-1	Dissolved	Ground Water	SW846 7470A	11G2092_P
11G2092-MS1	Matrix Spike	Dissolved	Water	SW846 7470A	11G2092_P
11G2092-MSD1	Matrix Spike Duplicate	Dissolved	Water	SW846 7470A	11G2092_P

Analysis Batch: 11G2312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G2312-BS1	Lab Control Sample	Total	Water	SW846 6020	11G2312_P
11G2312-BLK1	Method Blank	Total	Water	SW846 6020	11G2312_P
NUG0179-01	GW-060616-SL-MW-1	Total	Ground Water	SW846 6020	11G2312_P
11G2312-MS1	GW-060616-SL-MW-1	Total	Water	SW846 6020	11G2312_P
11G2312-MSD1	GW-060616-SL-MW-1	Total	Water	SW846 6020	11G2312_P

Analysis Batch: 11G2314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G2314-BS1	Lab Control Sample	Dissolved	Water	SW846 6020	11G2314_P
11G2314-BLK1	Method Blank	Dissolved	Water	SW846 6020	11G2314_P
NUG0179-01	GW-060616-SL-MW-1	Dissolved	Ground Water	SW846 6020	11G2314_P
11G2314-MS1	GW-060616-SL-MW-1	Dissolved	Water	SW846 6020	11G2314_P

Metals (Continued)

Analysis Batch: 11G2314 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G2314-MSD1	GW-060616-SL-MW-1	Dissolved	Water	SW846 6020	11G2314_P

Analysis Batch: U012242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G1159-BLK1	Method Blank	Total	Water	SW846 7470A	11G1159_P
11G1159-BS1	Lab Control Sample	Total	Water	SW846 7470A	11G1159_P
11G1159-BSD1	Lab Control Sample Dup	Total	Water	SW846 7470A	11G1159_P
11G1159-MS1	Matrix Spike	Total	Water	SW846 7470A	11G1159_P
11G1159-MSD1	Matrix Spike Duplicate	Total	Water	SW846 7470A	11G1159_P

Prep Batch: 11G1159_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G1159-BLK1	Method Blank	Total	Water	EPA 7470	
11G1159-BS1	Lab Control Sample	Total	Water	EPA 7470	
11G1159-BSD1	Lab Control Sample Dup	Total	Water	EPA 7470	
11G1159-MS1	Matrix Spike	Total	Water	EPA 7470	
11G1159-MSD1	Matrix Spike Duplicate	Total	Water	EPA 7470	
NUG0179-01	GW-060616-SL-MW-1	Total	Ground Water	EPA 7470	

Prep Batch: 11G2092_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G2092-BLK1	Method Blank	Dissolved	Water	EPA 7470	
11G2092-BS1	Lab Control Sample	Dissolved	Water	EPA 7470	
NUG0179-01	GW-060616-SL-MW-1	Dissolved	Ground Water	EPA 7470	
11G2092-MS1	Matrix Spike	Dissolved	Water	EPA 7470	
11G2092-MSD1	Matrix Spike Duplicate	Dissolved	Water	EPA 7470	

Prep Batch: 11G2312_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G2312-BS1	Lab Control Sample	Total	Water	EPA 3010A / 6020	
11G2312-BLK1	Method Blank	Total	Water	EPA 3010A / 6020	
NUG0179-01	GW-060616-SL-MW-1	Total	Ground Water	EPA 3010A / 6020	
11G2312-MS1	GW-060616-SL-MW-1	Total	Water	EPA 3010A / 6020	
11G2312-MSD1	GW-060616-SL-MW-1	Total	Water	EPA 3010A / 6020	

Prep Batch: 11G2314_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G2314-BS1	Lab Control Sample	Dissolved	Water	EPA 3010A / 6020 Dissolved	
11G2314-BLK1	Method Blank	Dissolved	Water	EPA 3010A / 6020 Dissolved	
NUG0179-01	GW-060616-SL-MW-1	Dissolved	Ground Water	EPA 3010A / 6020 Dissolved	
11G2314-MS1	GW-060616-SL-MW-1	Dissolved	Water	EPA 3010A / 6020 Dissolved	
11G2314-MSD1	GW-060616-SL-MW-1	Dissolved	Water	EPA 3010A / 6020 Dissolved	

QC Association Summary

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

TestAmerica Job ID: NUG0179

WetChem

Analysis Batch: 11G0281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0281-BLK1	Method Blank	Total	Water	SM3500-Cr B/D	11G0281_P
11G0281-BS1	Lab Control Sample	Total	Water	SM3500-Cr B/D	11G0281_P
11G0281-DUP1	GW-060616-SL-MW-1	Total	Water	SM3500-Cr B/D	11G0281_P
11G0281-MS1	GW-060616-SL-MW-1	Total	Water	SM3500-Cr B/D	11G0281_P
11G0281-MSD1	GW-060616-SL-MW-1	Total	Water	SM3500-Cr B/D	11G0281_P
NUG0179-01	GW-060616-SL-MW-1	Total	Ground Water	SM3500-Cr B/D	11G0281_P

Prep Batch: 11G0281_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G0281-BLK1	Method Blank	Total	Water	NO PREP	
11G0281-BS1	Lab Control Sample	Total	Water	NO PREP	
11G0281-DUP1	GW-060616-SL-MW-1	Total	Water	NO PREP	
11G0281-MS1	GW-060616-SL-MW-1	Total	Water	NO PREP	
11G0281-MSD1	GW-060616-SL-MW-1	Total	Water	NO PREP	
NUG0179-01	GW-060616-SL-MW-1	Total	Ground Water	NO PREP	

Lab Chronicle

TestAmerica Job ID: NUG0179

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

Client Sample ID: GW-060616-SL-MW-1
Date Collected: 06/29/11 09:55
Date Received: 07/01/11 08:30

Lab Sample ID: NUG0179-01
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11G0800_P	07/02/11 17:00	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U011935	07/02/11 23:42	CMM	TAL NSH
Total	Prep	EPA 3510C		1.03	11G0343_P	07/02/11 11:55	MAH	TAL NSH
Total	Analysis	SW846 8270CSIM		1.00	11G0343	07/05/11 09:17	BES	TAL NSH
Total	Prep	EPA 5030B (GC)	RE1	1.00	11G2708_P	06/30/11 09:55	AMC2	TAL NSH
Total	Analysis	NWTPH-Gx	RE1	1.00	U012455	07/13/11 16:31	AMC2	TAL NSH
Total	Prep	EPA 3510C		0.971	11G0629_P	07/06/11 07:30	JJR	TAL NSH
Total	Analysis	NWTPH-Dx		1.00	U012145	07/08/11 07:23	JDJ	TAL NSH
Total	Prep	EPA 8011		1.003	11G0664_P	07/05/11 11:18	RMC	TAL NSH
Total	Analysis	SW846 8011		1.000	U012055	07/07/11 23:19	RMC	TAL NSH
Dissolved	Prep	EPA 3010A / 6020		1.00	11G2314_P	07/11/11 19:54	MET	TAL NSH
Dissolved	Analysis	Dissolved SW846 6020		1.00	11G2314	07/13/11 21:39	MET	TAL NSH
Total	Prep	EPA 3010A / 6020		1.00	11G2312_P	07/11/11 19:54	MET	TAL NSH
Total	Analysis	SW846 6020		1.00	11G2312	07/13/11 20:24	MET	TAL NSH
Dissolved	Prep	EPA 7470		1.00	11G2092_P	07/11/11 09:55	DEB	TAL NSH
Dissolved	Analysis	SW846 7470A		1.00	11G2092	07/12/11 10:55	DEB	TAL NSH
Total	Prep	EPA 7470		1.00	11G1159_P	07/07/11 11:00	MB	TAL NSH
Total	Analysis	SW846 7470A		1.00	11G1159	07/08/11 11:49	DEB	TAL NSH
Total	Analysis	SM3500-Cr B/D		1.00	11G0281	07/02/11 10:00	TCB	TAL NSH
Total	Prep	NO PREP		1.00	11G0281_P	07/02/11 10:00	TCB	TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

TestAmerica Job ID: NUG0179

Method	Method Description	Protocol	Laboratory
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8270CSIM	Polyaromatic Hydrocarbons by EPA 8270C SIM		TAL NSH
NWTPH-Gx	Purgeable Petroleum Hydrocarbons		TAL NSH
NWTPH-Dx	Extractable Petroleum Hydrocarbons with Silica Gel Treatment		TAL NSH
SW846 8011	EDB by EPA Method 8011		TAL NSH
SW846 6020	Total Metals by Method 6020		TAL NSH
SW846 6020	Dissolved Metals by Method 6020		TAL NSH
SW846 7470A	Mercury by EPA Methods 7470A/7471A		TAL NSH
SW846 7470A	Dissolved Mercury by EPA Methods 7470A/7471A		TAL NSH
SM3500-Cr B/D	General Chemistry Parameters		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: Conestoga-Rovers & Asso. (Everett)/ Shell
Project/Site: SAP 174665

TestAmerica Job ID: NUG0179

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

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.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER REC

NUG0179

Cooler Received/Opened On 7/1/2011 @ 8:30

1. Tracking # 5340 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 1.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...(NO)...NA

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) J.G.

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) ~~Plastic bag~~ Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...(NO)...NA

14. Was there a Trip Blank in this cooler? YES...(NO)...NA If multiple coolers, sequence # 1 of 1

I certify that I unloaded the cooler and answered questions 7-14 (intial) JH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) JH

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) JH

I certify that I attached a label with the unique LIMS number to each container (intial) JH

21. Were there Non-Conformance issues at login? YES.(NO) Was a PIPE generated? YES.(NO)...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
☐ CALSCIENCE ( )
☐ SPL Houston ( )
☐ XENCO ( )
☑ TEST AMERICA ( )
☐ OTHER ( )

Please Check Appropriate Box:
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☑ CONSULTANT ☐ OTHER
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Brian Richardson - 060616.2011.01
PO #
INCIDENT # (ENV SERVICES): 9 7 8 0 7 2 5 6 ☐ CHECK IF NO INCIDENT # APPLIES
SAP #: 1 7 4 6 6 5
DATE: 6/29/11
PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services
LOC CODE:
ADDRESS: 20735 Belshaw Avenue, Carson, CA 90746
SITE ADDRESS: Street and City: 6317 NE 4th Plain Blvd, Vancouver
State: WA
GLOBAL ID NO: NA
COP DELIVERABLE TO (Name, Company, Office Location): CRA, Seattle, WA
PHONE NO: 425-563-6500
E-MAIL:
PROJECT CONTACT (Hardcopy or PDF Report to): Lonn King
TELEPHONE: (310) 885-4455 x 108
FAX: (310) 637-5802
E-MAIL: lking@blainetech.com
SAMPLER NAME(S) (Print): G. Lane
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☒ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:
1) Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (http://cralabedduplcad.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED

Copy final report to Shell.Lab.Billing@craworld.com, Shell results@craworld.com, and Shell-US-LabDataManagement@CRAworld.com
Email invoice to Shell.Lab.Billing@craworld.com
See Laboratory PM for WA Dept. of Ecology MTCA Method A cleanup levels for minimum detection limits.

Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	SAMPLE ID: PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	PRESERVATIVE: HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	NWTPH-Gx	NWTPH-Dx w/Silica Gel Cleanup	BTEX (8260B)	5 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDC (8260B)	EDB (8011)	Total Lead (6020)	PCBs (8082)	PAHs (8070 SIM)	VOCs Full list (8260B)	Pest (8080)	NWTPH-VPH	NWTPH-EPH	Total and Dissolved RCRA 8 Metals (5020/7470A)	Hexavalent Chromium (SM 3500-Cr B)	TPH-D	Container PID Readings or Laboratory Notes
	GW – 060616	062911	GL	MW-1	0955	WG	X	X		X		15																	

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07/18/11 23:59

Relinquished by: (Signature) G. Lane	Received by: (Signature) Shipped by Fed Ex	Date: 6/30/11	Time: 1700
Relinquished by: (Signature)	Received by: (Signature) TA	Date: 7/1/11	Time: 08:30
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

07/18/2011