Minit Lube 1102
Lynnwood
LUST 324012
UST # 6802

CONESTOGA-ROVERS
& ASSOCIATES

October 31, 2007

Mr. John Bails
Washington State Department of Ecology
Northwest Regional Office
3190 160th Avenue SE
Bellevue, Washington 98008-5452

Re: **Groundwater Monitoring Report – Third Quarter 2007**
Former Jiffy Lube No. 2068
6808 196th Street SW
Lynnwood, Washington
SAP Code 171152
Incident No. 97605410
Ecology ID No. 27496218

Dear Mr. Bails:

Conestoga-Rovers & Associates, Inc. (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell).

If you have questions regarding this report, please contact Justin Foslien at (425) 212-5111.

Sincerely,
Conestoga-Rovers & Associates, Inc.

State of Washington 2540 Licensed Geologist
Justin Francis Foslien

Justin Foslien, LG
Project Manager

Terry Crotwell, LG
Geologist

Enclosure: Groundwater Monitoring Report – Third Quarter 2007

cc: Ms. Carol Campagna, Shell Oil Products US, 20945 S Wilmington Ave., Carson, CA 90810
Mr. Rick Megenity, Strickland Corporation, P.O. Box 1004, Everett, WA 98206

RECEIVED
11/02/07
NOV 02 2007
DEPT. OF ECOLOGY
TCP-NWRO

CONESTOGA-ROVERS
& ASSOCIATES

GROUNDWATER MONITORING REPORT – THIRD QUARTER 2007

Site Address	6808 196th Street SW, Lynnwood
Site Use	Former Jiffy Lube
Shell Project Manager	Carol Campagna
Consultant and Contact Person	CRA, Justin Foslien
Lead Agency and Contact	WDOE, John Bails
Ecology ID No.	27496218
Shell SAP Code	171152
Shell Incident No.	97605410
Date of Most Recent Agency Correspondence	No agency correspondence on record

Current Quarter's Activities

1. Blaine Tech Services, Inc. (Blaine) gauged and sampled wells according to the established monitoring program for this site.
2. CRA prepared a vicinity map (Figure 1) and a groundwater elevation contour and chemical concentration map (Figure 2). CRA also prepared two tables (Tables 1 and 2) summarizing groundwater monitoring data and analytical results. The Blaine field notes and the analytical data are included in Attachments A and B, respectively.
3. CRA completed an additional subsurface investigation to define the extent of impacted soil and groundwater at the site in July 2007.

Current Quarter's Findings

Groundwater Flow Direction	Southwest
Hydraulic Gradient	0.02 feet/foot
Depth to Water	8.50 to 10.71 feet below top of well casing

Proposed Activities for Next Quarter

1. Blaine will gauge and sample wells during the first month of the fourth quarter, according to the established monitoring program for this site.

2. The site is scheduled to be monitored weekly to gauge separate –phase hydrocarbons (SPH) in the wells. Well locations with measurable SPH will be bailed accordingly.

Discussion

Blaine gauged MW-1 through MW-10 prior to development of the new wells MW-6 though MW-10 on July 9th. On July 28th, Blaine gauged and sampled all site wells except MW-4 and MW-5 which contained Separate Phase Hydrocarbon (SPH). Multiple constituents were detected above the Washington State Model Toxics Control Act (MTCA) Method A cleanup level in he well samples except from MW-6, MW-7 and MW-9.

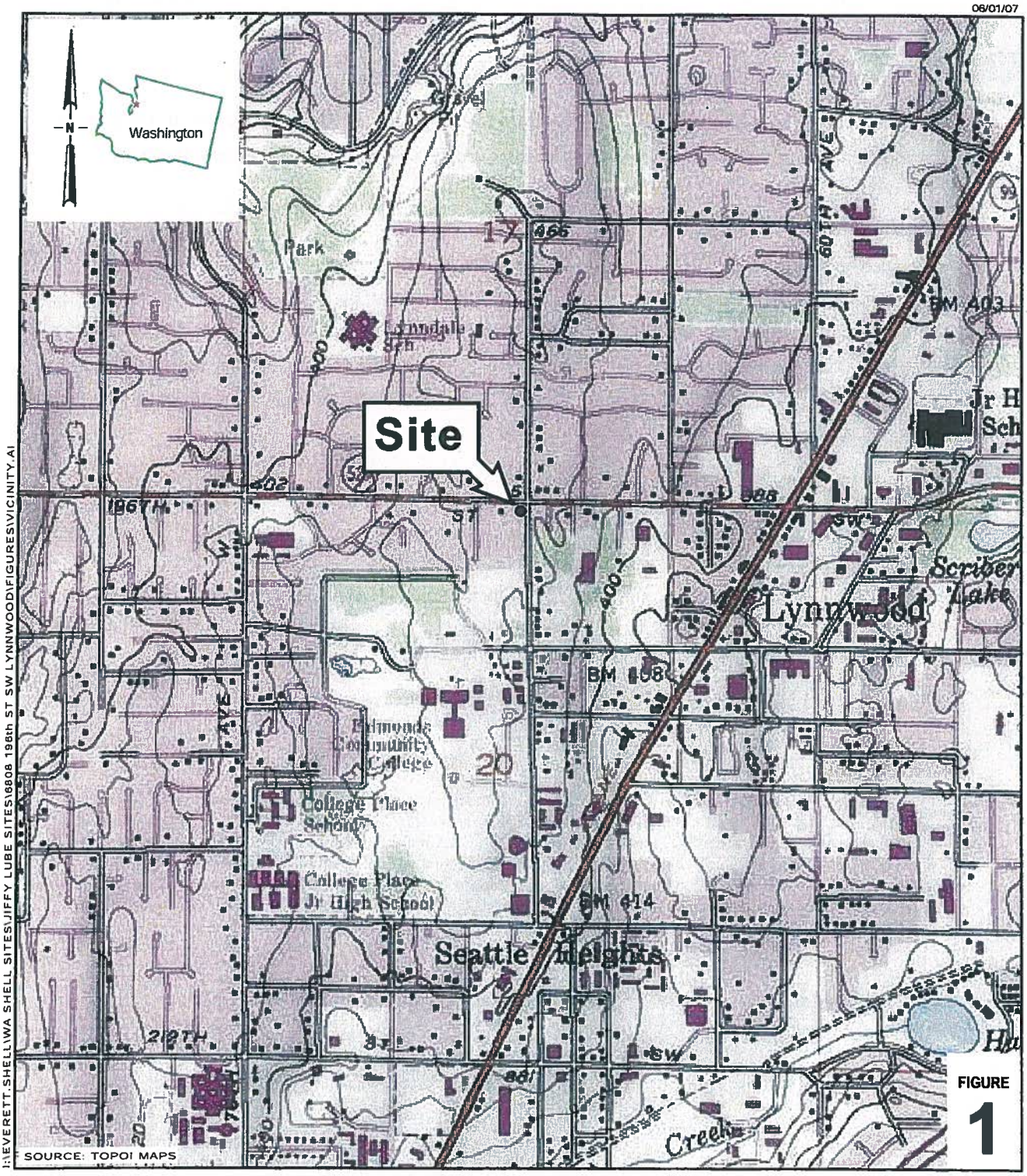
Figures: 1 - Vicinity Map
2 - Groundwater Contour and Chemical Concentration Map

Tables: 1 - Summary of Groundwater Monitoring Data – BETX, MTBE, and Petroleum Hydrocarbons
2 - Summary of Groundwater Monitoring Data – Oxygenates

Attachments: A - Blaine Tech Services, Inc. - Field Forms
B - Laboratory Analysis Report

I:\Everett.Shell\WA Shell Sites\Jiffy Lube Sites\6808 196th Street SW Lynnwood\QMRS\Reports\3q07\3q07qm.doc

06/01/07



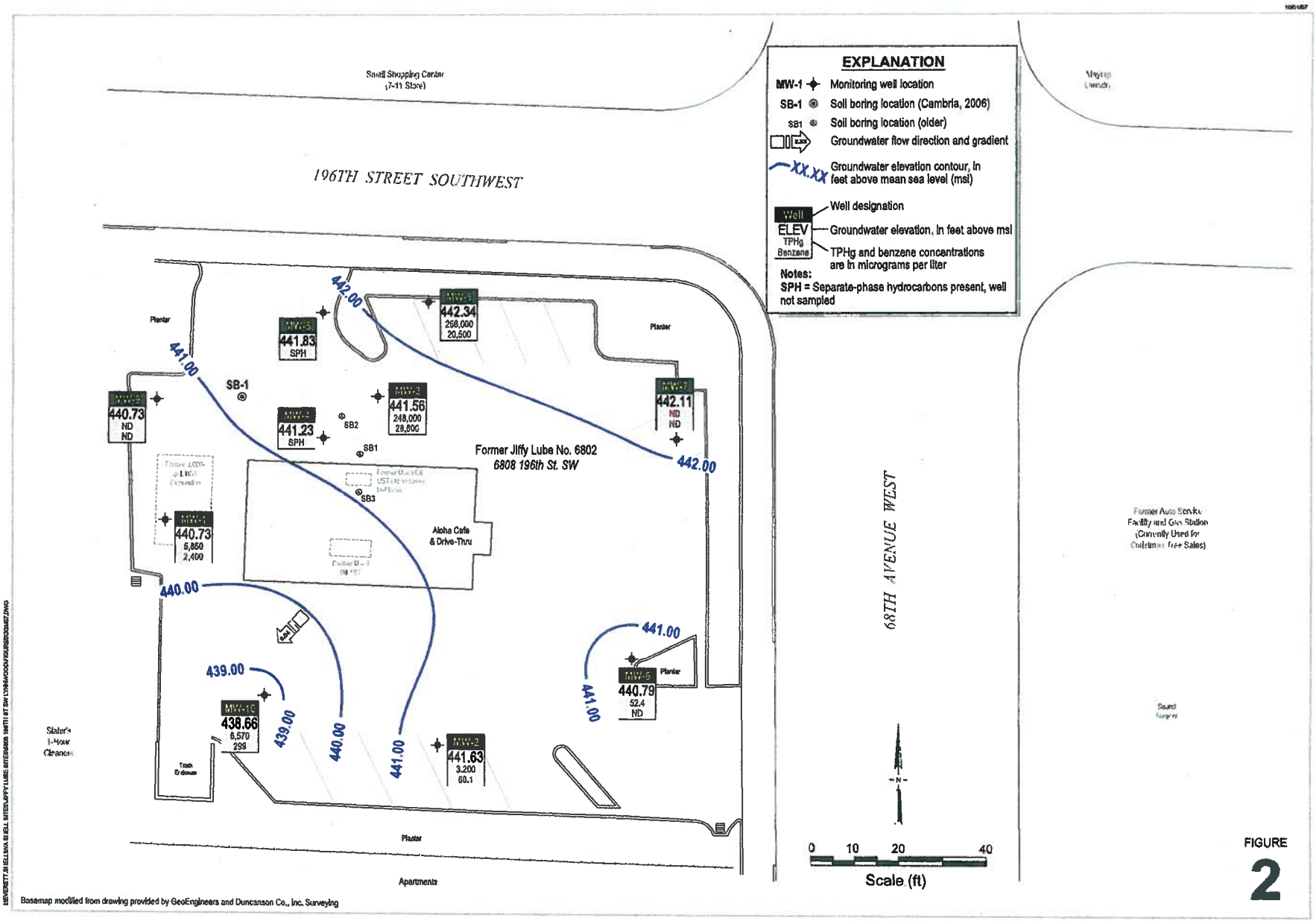
I:\EVERETT.SHELL\WA SHELL SITES\JIFFY LUBE SITES\6808 196th ST SW LYNNWOOD\FIGURES\VICINITY.AI

FIGURE 1

Jiffy Lube No. 2069
6808 196th Street Southwest
Lynnwood, Washington

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map



Basemap modified from drawing provided by GeoEngineers and Duncanson Co., Inc. Surveying

FIGURE
2

Groundwater Contour and Chemical Concentration Map
July 28, 2007

CONESTOGA-ROVERS & ASSOCIATES

Jiffy Lube No. 2068
6808 196th Street Southwest
Lynnwood, Washington

TABLE 1
SUMMARY OF GROUNDWATER MONITORING DATA
BETX, MTBE, AND PETROLEUM HYDROCARBONS
6808 196TH STREET SW
LYNNWOOD, WASHINGTON

Well Number	Date	TOC (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	SPH Thickness (feet)	B (µg/L)	E (µg/L)	T (µg/L)	X (µg/L)	Gasoline-range Hydrocarbons (µg/L)	Diesel Range Hydrocarbons (µg/L)	Heavy Oil Range Hydrocarbons (µg/L)	MTBE (µg/L)
MW-1	12/28/06	451.74	9.75	441.99	---	---	---	---	---	---	---	---	---
MW-1	12/29/06	451.74	9.57	442.17	---	9,190	1,090	2,140	4,100	42,100	<255	<510	---
MW-1	02/15/07	451.74	10.10	441.64	---	9,230	938	1,840	3,710	41,200	<269	<538	<5.00
MW-1	04/06/07	451.74	10.71	441.03	---	7,450	718	732	2,310	30,200	<258	<515	---
MW-1	**07/09/07**	**451.74**	**10.78**	**440.96**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
MW-1	**07/28/07**	**451.74**	**11.01**	**440.73**	**---**	**2,400**	**131**	**32.4**	**190**	**5,850**	**<258**	**<515**	**---**
MW-2	12/28/06	450.59	7.26	443.33	---	---	---	---	---	---	---	---	---
MW-2	12/29/06	450.59	7.35	443.24	---	21.7	55.1	6.75	9.91	2,640	<253	<505	---
MW-2	02/15/07	450.59	8.03	442.56	---	2.06	4.36	<0.500	<1.00	249	<278	<556	<5.00
MW-2	04/06/07	450.59	8.50	442.09	---	1.83	2.61	0.518	<1.00	180	<258	<515	---
MW-2	**07/09/07**	**450.59**	**8.62**	**441.97**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
MW-2	**07/28/07**	**450.59**	**8.96**	**441.63**	**---**	**66.1**	**137**	**7.86**	**20.4**	**3,200**	**<255**	**<510**	**---**
MW-3	12/28/06	451.69	8.45	443.24	---	---	---	---	---	---	---	---	---
MW-3	12/29/06	451.69	8.51	443.18	---	28,500	2,950	29,200	15,900	171,000	608	<510	---
MW-3	02/15/07	451.69	9.09	442.60	---	29,200	3,140	37,400	18,600	263,000 a, b	2,580 c	<2,750	<500
MW-3	04/06/07	451.69	9.66	442.03	---	26,600	2,850	37,500	16,800	214,000	867 c	<495	---
MW-3	**07/09/07**	**451.69**	**9.81**	**441.88**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
MW-3	**07/28/07**	**451.69**	**10.13**	**441.56**	**---**	**28,600**	**2,810**	**37,400**	**12,800**	**248,000**	**8,340 e**	**<5050**	**---**
MW-4	12/28/06	452.01	9.41	442.60	---	---	---	---	---	---	---	---	---
MW-4	12/29/06	452.01	9.36	442.65	---	32,400	3,200	39,700	18,800	207,000	1,810	<510	---
MW-4	02/15/07	452.01	9.96	442.05	---	31,500 a, b	2,990 a, b	40,500 a, b	18,100 a, b	253,000 a, b	72,100 c	<50,000	<500
MW-4	04/06/07	452.01	10.41	441.63 d	0.04	NOT SAMPLED - SPH PRESENT			---	---	---	---	---
MW-4	**07/09/07**	**452.01**	**10.47**	**441.56 d**	**0.03**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
MW-4	**07/28/07**	**452.01**	**10.81**	**441.23 d**	**0.04**	**NOT SAMPLED - SPH PRESENT**			---	---	---	---	---
MW-5	12/28/06	451.38	8.11	443.27	---	---	---	---	---	---	---	---	---
MW-5	12/29/06	451.38	8.17	443.21	---	7,220	2,280	24,400	13,200	122,000	603	<515	---
MW-5	02/15/07	451.38	8.49	442.89	---	12,800 a, b	6,000 a, b	43,600 a, b	40,700 a, b	771,000 a, b	49,200 c	<5,000	<500
MW-5	04/06/07	451.38	9.08	442.32 d	0.03	NOT SAMPLED - SPH PRESENT			---	---	---	---	---
MW-5	**07/09/07**	**451.38**	**9.19**	**442.21 d**	**0.03**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
MW-5	**07/28/07**	**451.38**	**9.58**	**441.83 d**	**0.04**	**NOT SAMPLED - SPH PRESENT**			---	---	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER MONITORING DATA
BETX, MTBE, AND PETROLEUM HYDROCARBONS
6808 196TH STREET SW
LYNNWOOD, WASHINGTON

Well Number	Date	TOC (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	SPH Thickness (feet)	B (µg/L)	E (µg/L)	T (µg/L)	X (µg/L)	Gasoline-range Hydrocarbons (µg/L)	Diesel Range Hydrocarbons (µg/L)	Heavy Oil Range Hydrocarbons (µg/L)	MTBE (µg/L)
MW-6	**07/09/07**	**449.40**	**8.33**	**441.07**	---	---	---	---	---	---	---	---	---
MW-6	**07/28/07**	**449.40**	**8.61**	**440.79**	---	**<0.500**	**<0.500**	**1.25**	**<1.00**	**52.4**	**<253**	**<505**	---
MW-7	**07/09/07**	**450.14**	**7.81**	**442.33**	---	---	---	---	---	---	---	---	---
MW-7	**07/28/07**	**450.14**	**8.03**	**442.11**	---	**<0.500**	**<0.500**	**<0.500**	**<1.00**	**<50.0**	**<253**	**<495**	---
MW-8	**07/09/07**	**451.31**	**8.63**	**442.68**	---	---	---	---	---	---	---	---	---
MW-8	**07/28/07**	**451.31**	**8.97**	**442.34**	---	**20,500**	**3,550**	**43,600**	**23,000**	**266,000** X	**8,580 e**	**<5,210**	---
MW-9	**07/09/07**	**451.75**	**10.83**	**440.92**	---	---	---	---	---	---	---	---	---
MW-9	**07/28/07**	**451.75**	**11.02**	**440.73**	---	**<0.500**	**<0.500**	**<0.500**	**<1.00**	**<50.0**	**<248**	**<495**	---
MW-10	**07/09/07**	**451.43**	**12.44**	**438.99**	---	---	---	---	---	---	---	---	---
MW-10	**07/28/07**	**451.43**	**12.77**	**438.66**	---	**299**	**237**	**179**	**615**	**6,570**	**307 c**	**<505**	---
MTCA Method A Cleanup Level						**5**	**700**	**1,000**	**1,000**	**800**	**500**	**500**	**20**

Abbreviations and Notes:

Well locations are shown in Figure 2.
TOC = Top of Casing.
SPH = Separate Phase Hydrocarbons
Depth to water from top of well casing.
B = benzene, E = ethylbenzene, T = toluene, X = total xylenes. Analyzed using EPA Method 8021B.
Gasoline-range hydrocarbons analyzed using NWTPH-Gx.
Diesel and heavy-oil range hydrocarbons analyzed using NWTPH-Dx with acid/siica gel clean-up
MTBE = Methyl Tertiary butyl ether. By Method 8260B.
µg/L = micrograms per liter
MTCA = Model Toxics Control Act

a = Due to multiple re-shots required for re-analysis, the aliquot of sample analyzed on the instrument was taken from a VOA vial containing headspace.
b = Sample container contained headspace.
c = Results in the diesel organics range are primarily due to overlap from a gasoline-range product.
d = Groundwater elevation formula adjusted for the presence of SPH: (TOC - DTW)+ (SPHT*0.80)
e = Hydrocarbon pattern most closely resembles a blend of gasoline and diesel.

TABLE 2
SUMMARY OF GROUNDWATER MONITORING DATA
OXYGENATES
6808 196TH STREET SW
LYNNWOOD, WASHINGTON

Well Number	Date	TAME (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)
MW-1	02/15/07	<1.00	54.6	<1.00	<1.00
MW-2	02/15/07	<1.00	<50.0	<1.00	<1.00
MW-3	02/15/07	<100	<5,000	<100	<100
MW-4	02/15/07	<100	<5,000	<100	<100
MW-5	02/15/07	<100	<5,000	<100	<100

Abbreviations and Notes:

Well locations are shown in Figure 2.
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
TBA = Tertiary-butanol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
µg/L = micrograms per liter

Attachment A

Blaine Tech Services, Inc.
Field Forms

Job Clearance Form

Contractor Identification / Work Description

Contractor Instructions Prior to Start of Work: Review form; check appropriate boxes, read and sign at bottom. Inform site rep. Of job to be performed, safety concerns and obtain signature.

Station #	Station Address:	Work Order No. (Job #)	Date:
NA	6808 196th St. S.W. Lynnwood	070709-DLJ	7/9/07

Contractor Company Name:	Contractor Representative	No. of Workers:	JSA Reference (circle)	Start Time:	End Time:
Blaine Tech Services, Inc.	Dan Koskela	1	Groundwater Monitoring / Wellhead Repair	~~8~~ 1145	1230

Work Description: Ground Water Monitoring / Sampling

Personal Protective Equipment (PPE) Required (Check or fill blank space)

☒ Safety Vest ☐ Hard Hat ☒ Shoes/Boots ☐ Respirator ☐ Protective Clothing
☒ Gloves ☒ Safety Glasses/Goggles ☐ Hearing Protection ☐ Other _____

Identification of Hazards or Circumstances not already addressed in Job Safety Analysis (JSA)

Task Step	Hazard(s) not identified in JSA	Effort(s) to Reduce/Eliminate Risk

Identification of Permit to Work Requirements for this Job

☐ Job Clearance Form (Req'd for all tasks)

☐ Job Safety Analysis
- ☐ Confined Space Entry
- ☐ Excavation Work
- ☐ Working at Heights
- ☐ Lock Out/Tag Out
- ☐ Hot Work
- ☐ Hoisting/Rigging
- ☐ Barricade/Work Area Isolation
- ☐ Live Electrical

☐ Permit to Work
- ☐ Confined Space Entry
- ☐ Hot Work
- ☐ Excavation Work
- ☐ Hoisting/Rigging
- ☐ Working at Heights

Work Authorization (Sign In)	Work Completion (Sign Out)
Name/Signature of Contractor Representative: Dan Koskela / Jon Haskell	Name/Signature of Contractor Representative: Dan Koskela / Jon Haskell
Name/Signature Site Representative: "I have discussed Job Clearance with above Contractor"	Name/Signature Site Representative:

Safety Check:
- Have all personnel been informed — Yes/No
- Have isolation procedures been agreed? — Yes/No
- Has fuel delivery service been informed — Yes/No
- Work areas cordoned off to protect workers, site staff and public? — Yes/No
- Is a Fuel Delivery due? — Yes/No

Safety Check:
- Has work area been left tidy and safe? — Yes/No
- Are site personnel aware of status of work including remaining isolation? — Yes/No
- Have changes to equipment been documented and communicated? — Yes/No
- Have all incidents, near incidents, unsafe situations been reported? — Yes/No

The Contractor, through its authorized representative shall sign, issue and be solely responsible for all job clearance forms and the obligations arising hereunder 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 safety requirement.

WELLHEAD INSPECTION FORM

Client: Shell Site: 6808 196th St. SW. Lynnwood Date 7/9/07

Job #: 070709-DKZ Technician: D. Hoshela 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														
MW-2	X														
MW-3	X														
MW-4	X														
MW-5	X														
MW-6	X														
MW-7	X														
MW-8	X														
MW-9	X														
MW-10	X														

Notes: _____

WELL GAUGING DATA

Project # 070709-DL2 Date 7/9/07 Client Shell

Site 6808 196th St. SW. Lynnwood, WA

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	1216	2					10.78	24.85	TOC	
MW-2	1213	2					8.62	17.40		
MW-3	1209	2					9.81	17.35		
MW-4	1221	2		10.44	.03		10.47	—		
MW-5	1227	2		9.16	.03		9.19	—		
MW-6	1151	2					8.33	19.40		
MW-7	1154	2					7.81	19.40		
MW-8	1158	2					8.63	19.03		
MW-9	1202	2					10.83	19.90		
MW-10	1205	2					12.44	20.05	—	

LAB:
- [x] TA - Seattle, Washington
- [ ] TA - Portland, Oregon
- [ ] TA - Sacramento, California
- [ ] TA - Nashville, Tennessee
- [ ] Calscience
- [ ] Other_____

SHELL Chain Of Custody Record

NAME OF PERSON TO BILL: Carol Campagna

- [x] ENVIRONMENTAL SERVICES
- [ ] NETWORK DEV / FE
- [ ] BILL CONSULTANT
- [ ] COMPLIANCE
- [ ] RMT/CRMT

[ ] CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES

INCIDENT # (ES ONLY): 9 7 6 0 5 4 1 0

PO #:

SAP or CRMT #:

DATE: 7/28/07

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE:

SITE ADDRESS: Street and City: 6808 196th Street SW, Lynnwood

State: WA

GLOBAL ID NO.: NA

ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112

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

PHONE NO.: (425) 212-5111

E-MAIL: jfoslien@craworld.com

CONSULTANT PROJECT NO.: 070728-BTL

PROJECT CONTACT (Hardcopy or PDF Report to): Jason Brown

SAMPLER NAME(S) (Print):

LAB USE ONLY

TELEPHONE: 916-925-2913 x102

FAX: 916-925-2891

E-MAIL: jbrown@blainetech.com

TAT (STD IS 10 BUSINESS DAYS / RUSH IS CALENDAR DAYS):
- [x] STD
- [ ] 5 DAY
- [ ] 3 DAY
- [ ] 2 DAY
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

[ ] LA - RWQCB REPORT FORMAT [ ] UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

- [ ] EDD NOT NEEDED
- [ ] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMB RATE APPLIES
- [x] RECEIPT VERIFICATION REQUESTED

cc Brenda Carter [bicarter@craworld.com] on pdf report

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	NW TPH-Dx w/silica gel clean up	NW TPH-Dx	NW TPH - Gx	BTEX (8021B)	5 Oxygenates (8260B) (MTBE, TBA, DIPE, TAME, ETBE)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8011M)		Ethanol (8260B)	Methanol (8015M)	Ethanol+Methanol (8015M)	EPH	VPH			TEMPERATURE ON RECEIPT C°
	MW-1	7/28	715	W	5	X		X	X																	
	MW-2		730			X		X	X																	
	MW-3		745			X		X	X																	
	MW-4 DR 6		800			X		X	X																	
	MW-7		815			X		X	X																	
	MW-8		830			X		X	X																	
	MW-9		845			X		X	X																	
	MW-10		900			X		X	X																	

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes

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

Q&O Graphic (714) 895-9702

05/02/06 Revision

WELLHEAD INSPECTION FORM

Client: Shell Site: 6808 196th St. S.W. Lynnwood Date 7/28/07

Job #: 070728-PW1 Technician: D. Maestas 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														
MW-2	X														
MW-3	X														
MW-4	X														
MW-5	X														
MW-6	X														
MW-7	X														
MW-8	X														
MW-9	X														
MW-10	X														

Notes: _____

Job Clearance Form

Contractor Identification / Work Description

Contractor Instructions Prior to Start of Work: Review form; check appropriate boxes, read and sign at bottom. Inform site rep. Of job to be performed, safety concerns and obtain signature.

Station # NA	Station Address: 6808 196th St. S.W. Lynnwood	Work Order No. (Job #) 070728.DK1	Date: 7/28/07	
Contractor Company Name: Blaine Tech Services, Inc.	Contractor Representative: D. Kozuela	No. of Workers: 1	JSA Reference (circle) Groundwater Monitoring / Wellhead Repair	Start Time: 700 / End Time: 920

Work Description: Ground Water Monitoring

Personal Protective Equipment (PPE) Required (Check or fill blank space)

☐ Safety Vest ☐ Hard Hat ☐ Shoes/Boots ☐ Respirator ☐ Protective Clothing
☐ Gloves ☐ Safety Glasses/Goggles ☐ Hearing Protection ☐ Other _____

Identification of Hazards or Circumstances not already addressed in Job Safety Analysis (JSA)

Task Step	Hazard(s) not identified in JSA	Effort(s) to Reduce/Eliminate Risk

Identification of Permit to Work Requirements for this Job

☐ Job Clearance Form (Req'd for all tasks)

☐ Job Safety Analysis
- ☐ Confined Space Entry
- ☐ Excavation Work
- ☐ Working at Heights
- ☐ Lock Out/Tag Out
- ☐ Hot Work
- ☐ Hoisting/Rigging
- ☐ Barricade/Work
- ☐ Area Isolation
- ☐ Live Electrical

☐ Permit to Work
- ☐ Confined Space Entry
- ☐ Hot Work
- ☐ Excavation Work
- ☐ Hoisting/Rigging
- ☐ Working at Heights

Work Authorization (Sign In)

Name/Signature of Contractor Representative: Dan Kozuela / Dan Kozuela

Name/Signature Site Representative:

"I have discussed Job Clearance with above Contractor"

Safety Check:
- Have all personnel been informed — (Yes)/No
- Have isolation procedures been agreed? — (Yes)/No
- Has fuel delivery service been informed — Yes/No N/A
- Work areas cordoned off to protect workers, site staff and public? — (Yes)/No
- Is a Fuel Delivery due? — Yes/No N/A

Work Completion (Sign Out)

Name/Signature of Contractor Representative: Dan Kozuela / Dan Kozuela

Name/Signature Site Representative:

Safety Check:
- Has work area been left tidy and safe? — (Yes)/No
- Are site personnel aware of status of work including remaining isolation? — (Yes)/No
- Have changes to equipment been documented and communicated? — (Yes)/No
- Have all incidents, near incidents, unsafe situations been reported? — (Yes)/No

The Contractor, through its authorized representative shall sign, issue and be solely responsible for all job clearance forms and the obligations arising hereunder 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 safety requirement.

WELL GAUGING DATA

Project # 070728-DL1 Date 7/28/07 Client Shell

Site 6808 196th St. S.W. Lynnwood, WA

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	713	2					11.01	24.85	TOC	
MW-2	728	2					8.96	17.40		
MW-3	743	2					10.13	17.35		
MW-4	904	2		10.77	0.04		10.81	—		
MW-5	910	2		9.54	0.04		9.58	—		
MW-6	758	2					8.61	19.45		
MW-7	813	2					8.03	19.55		
MW-8	828	2					8.97	19.21		
MW-9	843	2					11.02	19.94		
MW-10	858	2					12.77	20.05	—	

SHELL WELL MONITORING DATA SHEET

BTS #: 070728·DL1	Site: 97605410
Sampler: D. Ulosticla	Date: 7/28/07
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.85	Depth to Water: 11.01
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other ______

Sampling Method: Bailer, X Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ______

— (Gals.) X — = — Gals.
1 Case Volume · Specified Volumes · Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
714	60.9	6.5	522	7	—	

Did well dewater? Yes (No)	Gallons actually evacuated: —	
Sampling Date: 7/28/07	Sampling Time: 715	Depth to Water: —
Sample I.D.: MW-1	Laboratory: STL KIFF Other TA	
Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:		
EB I.D. (if applicable): @ Time	Duplicate I.D. (if applicable):	
Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:		

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 070728 · DL1	Site: 97605410
Sampler: D. Uoolicla	Date: 7/28/07
Well I.D.: MW - 2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 17.40	Depth to Water: 8.96
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other ______

Sampling Method: Bailer, ✗ Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ______

— (Gals.) X — = — Gals.
1 Case Volume · Specified Volumes · Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
729	60.6	6.4	303	6	—	

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Date: 7/28/07 Sampling Time: 730 Depth to Water: —

Sample I.D.: MW - 2 Laboratory: STL KIFF Other TA

Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 070728-DL1	Site: 97605410
Sampler: D. Uroskela	Date: 7/28/07
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 17.35	Depth to Water: 10.13
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other ____ (struck through)

Sampling Method: Bailer, ✓ Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ____

— (Gals.) X — = — Gals.
1 Case Volume · Specified Volumes · Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
744	60.1	6.9	387	15	—	

Did well dewater? Yes (No)	Gallons actually evacuated: —
Sampling Date: 7/28/07 Sampling Time: 745	Depth to Water: —
Sample I.D.: MW-3	Laboratory: STL KIFF Other TA
Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:	
EB I.D. (if applicable): @ Time	Duplicate I.D. (if applicable):
Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:	

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 070728-TA1	Site: 97605410
Sampler: D. Koobela	Date: 7/28/07
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: —	Depth to Water: 10.81
Depth to Free Product: 10.77	Thickness of Free Product (feet): 0.04
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other ______

Sampling Method: Bailer, ✗ Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ______

— (Gals.) X — = — Gals.
1 Case Volume, Specified Volumes, Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
		* SPH Detected			—	
		* No Sample Taken				

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Date: 7/28/07 Sampling Time: Depth to Water: —

Sample I.D.: MW-4 Laboratory: STL KIFF Other TA

Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 070728-TALI	Site: 97605410
Sampler: D. Ventura	Date: 7/28/07
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: —	Depth to Water: 9.58
Depth to Free Product: 9.54	Thickness of Free Product (feet): 0.04
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other ____

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

— (Gals.) X — = — Gals.
1 Case Volume . Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
		*	SPH	Detected	—	
		*	No Sample	Taken		

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Date: 7/28/07 Sampling Time: Depth to Water: —

Sample I.D.: MW-5 Laboratory: STL KIFF Other TA

Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 070728.DL1	Site: 97605410
Sampler: D. Uosbcla	Date: 7/28/07
Well I.D.: MW - 6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.45	Depth to Water: 8.61
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other___

Sampling Method: Bailer, X Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ___

— (Gals.) X — = — Gals.
1 Case Volume, Specified Volumes, Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	$radius^2 * 0.163$

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
759	61.7	7.0	637	12	—	

Did well dewater? Yes (No)	Gallons actually evacuated: —
Sampling Date: 7/28/07 Sampling Time: 800	Depth to Water: —
Sample I.D.: MW - 6	Laboratory: STL KIFF Other TA
Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:	
EB I.D. (if applicable): @ Time	Duplicate I.D. (if applicable):
Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:	
D.O. (if req'd): Pre-purge: mg/L	Post-purge: mg/L
O.R.P. (if req'd): Pre-purge: mV	Post-purge: mV

SHELL WELL MONITORING DATA SHEET

BTS #: 070728.DL1	Site: 97605410
Sampler: D. Uoalela	Date: 7/28/07
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.55	Depth to Water: 8.03
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Watera, Peristaltic, Extraction Pump, Other ___ (struck through)

Sampling Method: Bailer, ✓ Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ___

— (Gals.) X — = — Gals.
1 Case Volume, Specified Volumes, Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
8:14	60.4	6.5	589	10	—	

Did well dewater? Yes (No)	Gallons actually evacuated: —
Sampling Date: 7/28/07 Sampling Time: 815	Depth to Water: —
Sample I.D.: MW-7	Laboratory: STL KIFF Other TA
Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:	
EB I.D. (if applicable): @ Time	Duplicate I.D. (if applicable):
Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:	

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 070728-RL1	Site: 9760540
Sampler: D. Hoovela	Date: 7/28/07
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.21	Depth to Water: 8.97
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other:

— (Gals.) X — = — Gals.
1 Case Volume . Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
829	59.1	6.5	630	28	—	

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Date: 7/28/07 Sampling Time: 830 Depth to Water: —

Sample I.D.: MW-8 Laboratory: STL KIFF Other TA

Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 070728-DL1	Site: 97605410
Sampler: D. Hosbela	Date: 7/28/07
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.94	Depth to Water: 11.02
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other ___

Sampling Method: Bailer / (X) Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ___

— (Gals.) X — = — Gals.
1 Case Volume · Specified Volumes · Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
844	60.4	6.8	511	28	—	

Did well dewater? Yes (No)	Gallons actually evacuated: —
Sampling Date: 7/28/07 Sampling Time: 845	Depth to Water: —
Sample I.D.: MW-9	Laboratory: STL KIFF Other TA
Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:	
EB I.D. (if applicable): @ Time	Duplicate I.D. (if applicable):
Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:	

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 070728.DL1	Site: 97605410
Sampler: D. Hoskuela	Date: 7/28/07
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 20.05	Depth to Water: 12.77
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other ______ (crossed out)

Sampling Method: Bailer, ✗ Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ______

— (Gals.) X — = — Gals.
1 Case Volume, Specified Volumes, Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	$radius^2 * 0.163$

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
859	60.8	7.1	489	13	—	

Did well dewater? Yes (No)	Gallons actually evacuated: —	
Sampling Date: 7/28/07	Sampling Time: 900	Depth to Water: —
Sample I.D.: MW-10	Laboratory: STL KIFF Other TA	
Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:		
EB I.D. (if applicable): @ Time	Duplicate I.D. (if applicable):	
Analyzed for: TPH-g BTEX MTBE THP-d Oxygenates Other:		
D.O. (if req'd): Pre-purge: ___ mg/L	Post-purge: ___ mg/L	
O.R.P. (if req'd): Pre-purge: ___ mV	Post-purge: ___ mV	

Attachment B

Laboratory Analysis Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

August 13, 2007

Justin Foslien
Conestoga-Rovers & Associates - Everett
526 Commerce Center Building B - 1420 80th Street SW, Suite A
Everett, WA 98203

RE: Shell - 6808 196th Street SW, Lynnwood

Enclosed are the results of analyses for samples received by the laboratory on 07/30/07 16:00. The following list is a summary of the Work Orders contained in this report, generated on 08/13/07 17:25.

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

Work Order	Project	ProjectNumber
BQG0672	Shell - 6808 196th Street SW,	070728.DU1

TestAmerica - Seattle, WA

Kate Haney, Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Conestoga-Rovers & Associates - Everett	Project Name:	**Shell - 6808 196th Street SW, Lynnwood**	
526 Commerce Center Building B - 1420 80th Street SW, Suite	Project Number:	070728.DU1	Report Created:
Everett, WA 98203	Project Manager:	Justin Foslien	08/13/07 17:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	BQG0672-01	Water	07/28/07 07:15	07/30/07 16:00
MW-2	BQG0672-02	Water	07/28/07 07:30	07/30/07 16:00
MW-3	BQG0672-03	Water	07/28/07 07:45	07/30/07 16:00
MW-6	BQG0672-04	Water	07/28/07 08:00	07/30/07 16:00
MW-7	BQG0672-05	Water	07/28/07 08:15	07/30/07 16:00
MW-8	BQG0672-06	Water	07/28/07 08:30	07/30/07 16:00
MW-9	BQG0672-07	Water	07/28/07 08:45	07/30/07 16:00
MW-10	BQG0672-08	Water	07/28/07 09:00	07/30/07 16:00

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Conestoga-Rovers & Associates - Everett	Project Name:	**Shell - 6808 196th Street SW, Lynnwood**	
526 Commerce Center Building B - 1420 80th Street SW, Suite	Project Number:	070728.DU1	Report Created:
Everett, WA 98203	Project Manager:	Justin Foslien	08/13/07 17:25

Volatile Petroleum Products by NWTPH-Gx

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQG0672-01RE1 (MW-1)			**Water**			**Sampled: 07/28/07 07:15**				
Gasoline Range Hydrocarbons	NWTPH-Gx	**5850**	----	500	ug/l	10x	7H08014	08/07/07 10:21	08/09/07 04:08	
Surrogate(s): 4-BFB (FID)			*91.6%*		*58 - 144 %*	*1x*			"	
BQG0672-02 (MW-2)			**Water**			**Sampled: 07/28/07 07:30**				
Gasoline Range Hydrocarbons	NWTPH-Gx	**3200**	----	50.0	ug/l	1x	7H07021	08/07/07 10:21	08/08/07 02:40	
Surrogate(s): 4-BFB (FID)			*165%*		*58 - 144 %*	"			"	*ZX*
BQG0672-03 (MW-3)			**Water**			**Sampled: 07/28/07 07:45**				
Gasoline Range Hydrocarbons	NWTPH-Gx	**248000**	----	50000	ug/l	1000x	7H07021	08/07/07 10:21	08/08/07 06:00	
Surrogate(s): 4-BFB (FID)			*90.2%*		*58 - 144 %*	*1x*			"	
BQG0672-04RE1 (MW-6)			**Water**			**Sampled: 07/28/07 08:00**				
Gasoline Range Hydrocarbons	NWTPH-Gx	**52.4**	----	50.0	ug/l	1x	7H08014	08/07/07 10:21	08/09/07 01:55	
Surrogate(s): 4-BFB (FID)			*86.2%*		*58 - 144 %*	"			"	
BQG0672-05 (MW-7)			**Water**			**Sampled: 07/28/07 08:15**				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	7H07021	08/07/07 10:21	08/08/07 03:46	
Surrogate(s): 4-BFB (FID)			*88.7%*		*58 - 144 %*	"			"	
BQG0672-06 (MW-8)			**Water**			**Sampled: 07/28/07 08:30**				
Gasoline Range Hydrocarbons	NWTPH-Gx	**266000**	----	50000	ug/l	1000x	7H07021	08/07/07 10:21	08/08/07 06:33	
Surrogate(s): 4-BFB (FID)			*89.9%*		*58 - 144 %*	*1x*			"	
BQG0672-07 (MW-9)			**Water**			**Sampled: 07/28/07 08:45**				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	7H07021	08/07/07 10:21	08/08/07 04:20	
Surrogate(s): 4-BFB (FID)			*89.9%*		*58 - 144 %*	"			"	
BQG0672-08RE1 (MW-10)			**Water**			**Sampled: 07/28/07 09:00**				
Gasoline Range Hydrocarbons	NWTPH-Gx	**6570**	----	500	ug/l	10x	7H08014	08/07/07 10:21	08/09/07 05:14	
Surrogate(s): 4-BFB (FID)			*94.2%*		*58 - 144 %*	*1x*			"	

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Kate Haney

Kate Haney, Project Manager

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Conestoga-Rovers & Associates - Everett	Project Name:	**Shell - 6808 196th Street SW, Lynnwood**	
526 Commerce Center Building B - 1420 80th Street SW, Suite	Project Number:	070728.DU1	Report Created:
Everett, WA 98203	Project Manager:	Justin Foslien	08/13/07 17:25

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQG0672-01 (MW-1)		**Water**			**Sampled: 07/28/07 07:15**					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	258	ug/l	1x	7G31028	07/31/07 12:18	08/03/07 04:44	
Lube Oil Range Hydrocarbons	"	ND	----	515	"	"	"	"	"	
Surrogate(s): 2-FBP			*103%*		*53 - 125 %*	"			"	*C8*
Octacosane			*107%*		*68 - 125 %*	"			"	
BQG0672-02 (MW-2)		**Water**			**Sampled: 07/28/07 07:30**					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	255	ug/l	1x	7G31028	07/31/07 12:18	08/03/07 05:10	
Lube Oil Range Hydrocarbons	"	ND	----	510	"	"	"	"	"	
Surrogate(s): 2-FBP			*104%*		*53 - 125 %*	"			"	*C8*
Octacosane			*111%*		*68 - 125 %*	"			"	
BQG0672-03 (MW-3)		**Water**			**Sampled: 07/28/07 07:45**					
Lube Oil Range Hydrocarbons	NWTPH-Dx	ND	----	5050	ug/l	10x	7G31028	07/31/07 12:18	08/03/07 05:37	
Surrogate(s): Octacosane			*133%*		*68 - 125 %*	"			"	*ZX*
BQG0672-03RE1 (MW-3)		**Water**			**Sampled: 07/28/07 07:45**					
Diesel Range Hydrocarbons	NWTPH-Dx	**8340**	----	2530	ug/l	10x	7G31028	07/31/07 12:18	08/03/07 23:37	**Q10**
Surrogate(s): 2-FBP			*113%*		*53 - 125 %*	"			"	
BQG0672-04 (MW-6)		**Water**			**Sampled: 07/28/07 08:00**					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	253	ug/l	1x	7G31028	07/31/07 12:18	08/03/07 07:22	C
Lube Oil Range Hydrocarbons	"	ND	----	505	"	"	"	"	"	
Surrogate(s): 2-FBP			*108%*		*53 - 125 %*	"			"	*C8*
Octacosane			*109%*		*68 - 125 %*	"			"	*C8*
BQG0672-05 (MW-7)		**Water**			**Sampled: 07/28/07 08:15**					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	248	ug/l	1x	7G31028	07/31/07 12:18	08/03/07 07:49	C
Lube Oil Range Hydrocarbons	"	ND	----	495	"	"	"	"	"	
Surrogate(s): 2-FBP			*103%*		*53 - 125 %*	"			"	*C8*
Octacosane			*107%*		*68 - 125 %*	"			"	*C8*

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Conestoga-Rovers & Associates - Everett	Project Name:	**Shell - 6808 196th Street SW, Lynnwood**	
526 Commerce Center Building B - 1420 80th Street SW, Suite	Project Number:	070728.DU1	Report Created:
Everett, WA 98203	Project Manager:	Justin Foslien	08/13/07 17:25

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQG0672-06 (MW-8)		**Water**			**Sampled: 07/28/07 08:30**					
Lube Oil Range Hydrocarbons	NWTPH-Dx	ND	----	5210	ug/l	10x	7G31028	07/31/07 12:18	08/03/07 08:15	
Surrogate(s): Octacosane			*130%*		*68 - 125 %*	"			"	*ZX, C8*
BQG0672-06RE1 (MW-8)		**Water**			**Sampled: 07/28/07 08:30**					
Diesel Range Hydrocarbons	NWTPH-Dx	**8580**	----	2600	ug/l	10x	7G31028	07/31/07 12:18	08/04/07 00:04	Q10
Surrogate(s): 2-FBP			*108%*		*53 - 125 %*	"			"	
BQG0672-07 (MW-9)		**Water**			**Sampled: 07/28/07 08:45**					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	248	ug/l	1x	7G31028	07/31/07 12:18	08/03/07 08:42	C
Lube Oil Range Hydrocarbons	"	ND	----	495	"	"	"	"	"	
Surrogate(s): 2-FBP			*108%*		*53 - 125 %*	"			"	*C8*
Octacosane			*109%*		*68 - 125 %*	"			"	*C8*
BQG0672-08 (MW-10)		**Water**			**Sampled: 07/28/07 09:00**					
Lube Oil Range Hydrocarbons	NWTPH-Dx	ND	----	505	ug/l	1x	7G31028	07/31/07 12:18	08/03/07 09:08	
Surrogate(s): Octacosane			*107%*		*68 - 125 %*	"			"	*C8*
BQG0672-08RE1 (MW-10)		**Water**			**Sampled: 07/28/07 09:00**					
Diesel Range Hydrocarbons	NWTPH-Dx	**307**	----	253	ug/l	1x	7G31028	07/31/07 12:18	08/04/07 00:30	Q5
Surrogate(s): 2-FBP			*102%*		*53 - 125 %*	"			"	

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Conestoga-Rovers & Associates - Everett	Project Name:	**Shell - 6808 196th Street SW, Lynnwood**	
526 Commerce Center Building B - 1420 80th Street SW, Suite	Project Number:	070728.DU1	Report Created:
Everett, WA 98203	Project Manager:	Justin Foslien	08/13/07 17:25

BTEX by EPA Method 8021B

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQG0672-01RE1 (MW-1)		**Water**			**Sampled: 07/28/07 07:15**					
Toluene	EPA 8021B	**32.4**	----	5.00	ug/l	10x	7H08014	08/07/07 10:21	08/09/07 04:08	
Ethylbenzene	"	**131**	----	5.00	"	"	"	"	"	
Xylenes (total)	"	**190**	----	10.0	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)			*92.5%*		*68 - 140 %*	*1x*			"	
BQG0672-01RE2 (MW-1)		**Water**			**Sampled: 07/28/07 07:15**					
Benzene	EPA 8021B	**2400**	----	12.5	ug/l	25x	7H09047	08/09/07 13:43	08/09/07 17:40	
Surrogate(s): 4-BFB (PID)			*94.8%*		*68 - 140 %*	*1x*			"	
BQG0672-02 (MW-2)		**Water**			**Sampled: 07/28/07 07:30**					
Benzene	EPA 8021B	**66.1**	----	0.500	ug/l	1x	7H07021	08/07/07 10:21	08/08/07 02:40	
Toluene	"	**7.86**	----	0.500	"	"	"	"	"	
Xylenes (total)	"	**20.4**	----	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)			*109%*		*68 - 140 %*	"			"	
BQG0672-02RE1 (MW-2)		**Water**			**Sampled: 07/28/07 07:30**					
Ethylbenzene	EPA 8021B	**137**	----	5.00	ug/l	10x	7H08014	08/07/07 10:21	08/09/07 04:41	
Surrogate(s): 4-BFB (PID)			*97.8%*		*68 - 140 %*	*1x*			"	
BQG0672-03 (MW-3)		**Water**			**Sampled: 07/28/07 07:45**					
Benzene	EPA 8021B	**28600**	----	500	ug/l	1000x	7H07021	08/07/07 10:21	08/08/07 06:00	
Toluene	"	**37400**	----	500	"	"	"	"	"	
Ethylbenzene	"	**2810**	----	500	"	"	"	"	"	
Xylenes (total)	"	**12800**	----	1000	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)			*97.2%*		*68 - 140 %*	*1x*			"	
BQG0672-04RE1 (MW-6)		**Water**			**Sampled: 07/28/07 08:00**					
Benzene	EPA 8021B	ND	----	0.500	ug/l	1x	7H08014	08/07/07 10:21	08/09/07 01:55	
Toluene	"	**1.25**	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)			*95.9%*		*68 - 140 %*	"			"	

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Conestoga-Rovers & Associates - Everett	Project Name:	**Shell - 6808 196th Street SW, Lynnwood**	
526 Commerce Center Building B - 1420 80th Street SW, Suite	Project Number:	070728.DU1	Report Created:
Everett, WA 98203	Project Manager:	Justin Foslien	08/13/07 17:25

BTEX by EPA Method 8021B

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQG0672-05 (MW-7)		**Water**			**Sampled: 07/28/07 08:15**					
Benzene	EPA 8021B	ND	----	0.500	ug/l	1x	7H07021	08/07/07 10:21	08/08/07 03:46	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		*97.3%*			*68 - 140 %*	"			"	
BQG0672-06 (MW-8)		**Water**			**Sampled: 07/28/07 08:30**					
Benzene	EPA 8021B	**20500**	----	500	ug/l	1000x	7H07021	08/07/07 10:21	08/08/07 06:33	
Toluene	"	**43600**	----	500	"	"	"	"	"	
Ethylbenzene	"	**3550**	----	500	"	"	"	"	"	
Xylenes (total)	"	**23000**	----	1000	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		*97.3%*			*68 - 140 %*	*1x*			"	
BQG0672-07 (MW-9)		**Water**			**Sampled: 07/28/07 08:45**					
Benzene	EPA 8021B	ND	----	0.500	ug/l	1x	7H07021	08/07/07 10:21	08/08/07 04:20	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		*97.6%*			*68 - 140 %*	"			"	
BQG0672-08RE1 (MW-10)		**Water**			**Sampled: 07/28/07 09:00**					
Benzene	EPA 8021B	**299**	----	5.00	ug/l	10x	7H08014	08/07/07 10:21	08/09/07 05:14	
Toluene	"	**179**	----	5.00	"	"	"	"	"	
Ethylbenzene	"	**237**	----	5.00	"	"	"	"	"	
Xylenes (total)	"	**615**	----	10.0	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		*98.9%*			*68 - 140 %*	*1x*			"	

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Conestoga-Rovers & Associates - Everett	Project Name:	**Shell - 6808 196th Street SW, Lynnwood**	
526 Commerce Center Building B - 1420 80th Street SW, Suite	Project Number:	070728.DU1	Report Created:
Everett, WA 98203	Project Manager:	Justin Foslien	08/13/07 17:25

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7H07021 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7H07021-BLK1)								Extracted: 08/07/07 10:21						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	08/07/07 10:38	
Surrogate(s): 4-BFB (FID)		*Recovery: 81.9%*			*Limits: 58-144%*	"							*08/07/07 10:38*	
LCS (7H07021-BS1)								Extracted: 08/07/07 10:21						
Gasoline Range Hydrocarbons	NWTPH-Gx	1000	---	50.0	ug/l	1x	--	1000	100%	(80-120)	--	--	08/07/07 11:11	
Surrogate(s): 4-BFB (FID)		*Recovery: 93.7%*			*Limits: 58-144%*	"							*08/07/07 11:11*	
Duplicate (7H07021-DUP1)					QC Source: BQH0041-01			Extracted: 08/07/07 10:21						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	ND	--	--	--	4.98%	(25)	08/07/07 13:50	R4
Surrogate(s): 4-BFB (FID)		*Recovery: 88.6%*			*Limits: 58-144%*	"							*08/07/07 13:50*	
Duplicate (7H07021-DUP2)					QC Source: BQH0041-02			Extracted: 08/07/07 10:21						
Gasoline Range Hydrocarbons	NWTPH-Gx	143	---	50.0	ug/l	1x	147	--	--	--	2.43%	(25)	08/07/07 14:56	
Surrogate(s): 4-BFB (FID)		*Recovery: 103%*			*Limits: 58-144%*	"							*08/07/07 14:56*	
Matrix Spike (7H07021-MS1)					QC Source: BQH0041-01			Extracted: 08/07/07 10:21						
Gasoline Range Hydrocarbons	NWTPH-Gx	1140	---	50.0	ug/l	1x	24.7	1000	111%	(75-131)	--	--	08/07/07 15:30	
Surrogate(s): 4-BFB (FID)		*Recovery: 100%*			*Limits: 58-144%*	"							*08/07/07 15:30*	
Matrix Spike Dup (7H07021-MSD1)					QC Source: BQH0041-01			Extracted: 08/07/07 10:21						
Gasoline Range Hydrocarbons	NWTPH-Gx	1110	---	50.0	ug/l	1x	24.7	1000	109%	(75-131)	2.18%	(25)	08/07/07 16:03	
Surrogate(s): 4-BFB (FID)		*Recovery: 99.2%*			*Limits: 58-144%*	"							*08/07/07 16:03*	

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Conestoga-Rovers & Associates - Everett	Project Name:	**Shell - 6808 196th Street SW, Lynnwood**	
526 Commerce Center Building B - 1420 80th Street SW, Suite	Project Number:	070728.DU1	Report Created:
Everett, WA 98203	Project Manager:	Justin Foslien	08/13/07 17:25

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7H08014 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7H08014-BLK1)								Extracted: 08/08/07 07:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	08/08/07 08:46	
Surrogate(s): 4-BFB (FID)		*Recovery: 85.9%*			*Limits: 58-144%*	"							*08/08/07 08:46*	
LCS (7H08014-BS1)								Extracted: 08/08/07 07:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	1200	---	50.0	ug/l	1x	--	1000	120%	(80-120)	--	--	08/08/07 09:19	
Surrogate(s): 4-BFB (FID)		*Recovery: 102%*			*Limits: 58-144%*	"							*08/08/07 09:19*	
Duplicate (7H08014-DUP1)					QC Source: BQG0671-01			Extracted: 08/08/07 07:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	326	---	50.0	ug/l	1x	317	--	--	--	2.82%	(25)	08/08/07 11:49	
Surrogate(s): 4-BFB (FID)		*Recovery: 106%*			*Limits: 58-144%*	"							*08/08/07 11:49*	
Duplicate (7H08014-DUP2)					QC Source: BQG0671-14			Extracted: 08/08/07 07:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	10800	---	2500	ug/l	50x	12300	--	--	--	13.0%	(25)	08/09/07 03:01	
Surrogate(s): 4-BFB (FID)		*Recovery: 91.8%*			*Limits: 58-144%*	*1x*							*08/09/07 03:01*	
Matrix Spike (7H08014-MS1)					QC Source: BQG0671-09			Extracted: 08/08/07 07:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	1890	---	50.0	ug/l	1x	735	1000	115%	(75-131)	--	--	08/08/07 20:22	
Surrogate(s): 4-BFB (FID)		*Recovery: 135%*			*Limits: 58-144%*	"							*08/08/07 20:22*	

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Conestoga-Rovers & Associates - Everett	Project Name:	**Shell - 6808 196th Street SW, Lynnwood**	
526 Commerce Center Building B - 1420 80th Street SW, Suite	Project Number:	070728.DU1	Report Created:
Everett, WA 98203	Project Manager:	Justin Foslien	08/13/07 17:25

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7G31028 **Water Preparation Method: EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7G31028-BLK1)								**Extracted: 07/31/07 12:18**						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	250	ug/l	1x	--	--	--	--	--	--	08/03/07 01:38	
Lube Oil Range Hydrocarbons	"	ND	---	500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		*Recovery: 99.5%*			*Limits: 53-125%*	"							*08/03/07 01:38*	*C8*
Octacosane		*110%*			*68-125%*	"							"	
LCS (7G31028-BS2)								**Extracted: 07/31/07 12:18**						
Diesel Range Hydrocarbons	NWTPH-Dx	1950	---	250	ug/l	1x	--	2000	97.6%	(61-132)	--	--	08/03/07 20:09	
Surrogate(s): 2-FBP		*Recovery: 94.3%*			*Limits: 53-125%*	"							*08/03/07 20:09*	
Octacosane		*104%*			*68-125%*	"							"	
LCS Dup (7G31028-BSD2)								**Extracted: 07/31/07 12:18**						
Diesel Range Hydrocarbons	NWTPH-Dx	1950	---	250	ug/l	1x	--	2000	97.7%	(61-132)	0.0799%	(35)	08/03/07 20:35	
Surrogate(s): 2-FBP		*Recovery: 97.5%*			*Limits: 53-125%*	"							*08/03/07 20:35*	
Octacosane		*105%*			*68-125%*	"							"	

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Conestoga-Rovers & Associates - Everett	Project Name:	**Shell - 6808 196th Street SW, Lynnwood**	
526 Commerce Center Building B - 1420 80th Street SW, Suite	Project Number:	070728.DU1	Report Created:
Everett, WA 98203	Project Manager:	Justin Foslien	08/13/07 17:25

BTEX by EPA Method 8021B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7H07021 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7H07021-BLK1)								Extracted: 08/07/07 10:21						
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	08/07/07 10:38	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 97.9%*			*Limits: 68-140%*	"							*08/07/07 10:38*	
LCS (7H07021-BS2)								Extracted: 08/07/07 10:21						
Benzene	EPA 8021B	31.0	---	0.500	ug/l	1x	--	30.0	103%	(80-120)	--	--	08/07/07 11:45	
Toluene	"	31.2	---	0.500	"	"	--	"	104%	"	--	--	"	
Ethylbenzene	"	30.5	---	0.500	"	"	--	"	102%	"	--	--	"	
Xylenes (total)	"	92.9	---	1.00	"	"	--	90.0	103%	"	--	--	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 99.8%*			*Limits: 68-140%*	"							*08/07/07 11:45*	
Duplicate (7H07021-DUP1)							QC Source: BQH0041-01	Extracted: 08/07/07 10:21						
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	ND	--	--	--	NR	(25)	08/07/07 13:50	
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	15.2%	"	"	R4
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--	NR	"	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 97.2%*			*Limits: 68-140%*	"							*08/07/07 13:50*	
Duplicate (7H07021-DUP2)							QC Source: BQH0041-02	Extracted: 08/07/07 10:21						
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	ND	--	--	--	4.77%	(25)	08/07/07 14:56	R4
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	2.46%	"	"	R4
Ethylbenzene	"	3.56	---	0.500	"	"	3.64	--	--	--	2.06%	"	"	
Xylenes (total)	"	1.67	---	1.00	"	"	1.48	--	--	--	12.0%	"	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 101%*			*Limits: 68-140%*	"							*08/07/07 14:56*	
Matrix Spike (7H07021-MS2)							QC Source: BQH0041-02	Extracted: 08/07/07 10:21						
Benzene	EPA 8021B	29.8	---	0.500	ug/l	1x	0.279	30.0	98.5%	(46-130)	--	--	08/07/07 22:45	
Toluene	"	31.4	---	0.500	"	"	0.288	"	104%	(60-124)	--	--	"	
Ethylbenzene	"	32.6	---	0.500	"	"	3.64	"	96.5%	(56-141)	--	--	"	
Xylenes (total)	"	90.6	---	1.00	"	"	1.48	90.0	99.0%	(66-132)	--	--	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 103%*			*Limits: 68-140%*	"							*08/07/07 22:45*	

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Kate Haney, Project Manager

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Conestoga-Rovers & Associates - Everett	Project Name:	**Shell - 6808 196th Street SW, Lynnwood**	
526 Commerce Center Building B - 1420 80th Street SW, Suite	Project Number:	070728.DU1	Report Created:
Everett, WA 98203	Project Manager:	Justin Foslien	08/13/07 17:25

BTEX by EPA Method 8021B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7H07021 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (7H07021-MSD2)					QC Source: BQH0041-02				Extracted: 08/07/07 10:21					
Benzene	EPA 8021B	29.8	---	0.500	ug/l	1x	0.279	30.0	98.2%	(46-130)	0.255%	(40)	08/07/07 23:18	
Toluene	"	31.3	---	0.500	"	"	0.288	"	104%	(60-124)	0.319%	"	"	
Ethylbenzene	"	32.4	---	0.500	"	"	3.64	"	95.7%	(56-141)	0.693%	"	"	
Xylenes (total)	"	90.7	---	1.00	"	"	1.48	90.0	99.1%	(66-132)	0.0518%	"	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 103%*			*Limits: 68-140%*	"							*08/07/07 23:18*	

QC Batch: 7H08014 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7H08014-BLK1)									Extracted: 08/08/07 07:00					
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	08/08/07 08:46	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 97.4%*			*Limits: 68-140%*	"							*08/08/07 08:46*	
LCS (7H08014-BS2)									Extracted: 08/08/07 07:00					
Benzene	EPA 8021B	31.4	---	0.500	ug/l	1x	--	30.0	105%	(80-120)	--	--	08/08/07 09:53	
Toluene	"	33.4	---	0.500	"	"	--	"	111%	"	--	--	"	
Ethylbenzene	"	30.8	---	0.500	"	"	--	"	103%	"	--	--	"	
Xylenes (total)	"	97.2	---	1.00	"	"	--	90.0	108%	"	--	--	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 99.2%*			*Limits: 68-140%*	"							*08/08/07 09:53*	
Duplicate (7H08014-DUP1)					QC Source: BQG0671-01				Extracted: 08/08/07 07:00					
Benzene	EPA 8021B	4.38	---	0.500	ug/l	1x	4.44	--	--	--	1.43%	(25)	08/08/07 11:49	
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	23.9%	"	"	R4
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	30.4%	"	"	R4
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--	NR	"	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 105%*			*Limits: 68-140%*	"							*08/08/07 11:49*	
Duplicate (7H08014-DUP2)					QC Source: BQG0671-14				Extracted: 08/08/07 07:00					
Benzene	EPA 8021B	2130	---	25.0	ug/l	50x	2130	--	--	--	0.373%	(25)	08/09/07 03:01	
Toluene	"	ND	---	25.0	"	"	ND	--	--	--	2.65%	"	"	R4
Ethylbenzene	"	477	---	25.0	"	"	476	--	--	--	0.0839%	"	"	
Xylenes (total)	"	475	---	50.0	"	"	473	--	--	--	0.306%	"	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 96.9%*			*Limits: 68-140%*	*1x*							*08/09/07 03:01*	

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Conestoga-Rovers & Associates - Everett	Project Name:	**Shell - 6808 196th Street SW, Lynnwood**	
526 Commerce Center Building B - 1420 80th Street SW, Suite	Project Number:	070728.DU1	Report Created:
Everett, WA 98203	Project Manager:	Justin Foslien	08/13/07 17:25

BTEX by EPA Method 8021B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7H08014 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (7H08014-MS2)				QC Source: BQG0671-09				Extracted: 08/08/07 07:00						
Benzene	EPA 8021B	37.0	---	0.500	ug/l	1x	6.89	30.0	100%	(46-130)	--	--	08/08/07 20:56	
Toluene	"	32.2	---	0.500	"	"	0.358	"	106%	(60-124)	--	--	"	
Ethylbenzene	"	31.0	---	0.500	"	"	1.78	"	97.2%	(56-141)	--	--	"	
Xylenes (total)	"	91.5	---	1.00	"	"	0.401	90.0	101%	(66-132)	--	--	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 107%*		*Limits: 68-140%*		"							*08/08/07 20:56*	

QC Batch: 7H09047 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7H09047-BLK1)								Extracted: 08/09/07 08:43						
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	08/09/07 13:03	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 98.2%*		*Limits: 68-140%*		"							*08/09/07 13:03*	
LCS (7H09047-BS2)								Extracted: 08/09/07 13:43						
Benzene	EPA 8021B	31.8	---	0.500	ug/l	1x	--	30.0	106%	(80-120)	--	--	08/09/07 14:32	
Toluene	"	33.9	---	0.500	"	"	--	"	113%	"	--	--	"	
Ethylbenzene	"	30.7	---	0.500	"	"	--	"	102%	"	--	--	"	
Xylenes (total)	"	97.1	---	1.00	"	"	--	90.0	108%	"	--	--	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 98.1%*		*Limits: 68-140%*		"							*08/09/07 14:32*	
Duplicate (7H09047-DUP1)				QC Source: BQH0024-04				Extracted: 08/09/07 13:43						
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	ND	--	--	--	NR	(25)	08/09/07 17:07	
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	50.1%	"	"	R4
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--	NR	"	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 97.2%*		*Limits: 68-140%*		"							*08/09/07 17:07*	
Duplicate (7H09047-DUP2)				QC Source: BQH0024-01				Extracted: 08/09/07 13:43						
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	ND	--	--	--	NR	(25)	08/09/07 23:12	
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	0.651%	"	"	R4
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--	NR	"	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 96.2%*		*Limits: 68-140%*		"							*08/09/07 23:12*	

TestAmerica - Seattle, WA

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Conestoga-Rovers & Associates - Everett	Project Name:	**Shell - 6808 196th Street SW, Lynnwood**	
526 Commerce Center Building B - 1420 80th Street SW, Suite	Project Number:	070728.DU1	Report Created:
Everett, WA 98203	Project Manager:	Justin Foslien	08/13/07 17:25

BTEX by EPA Method 8021B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7H09047 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (7H09047-MS2)					**QC Source: BQH0024-04**				**Extracted: 08/09/07 13:43**					
Benzene	EPA 8021B	29.4	---	0.500	ug/l	1x	0.0940	30.0	97.8%	(46-130)	--	--	08/09/07 19:20	
Toluene	"	31.1	---	0.500	"	"	0.262	"	103%	(60-124)	--	--	"	
Ethylbenzene	"	28.4	---	0.500	"	"	ND	"	94.6%	(56-141)	--	--	"	
Xylenes (total)	"	88.6	---	1.00	"	"	0.362	90.0	98.0%	(66-132)	--	--	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 98.0%*			*Limits: 68-140%*	"							*08/09/07 19:20*	
Matrix Spike Dup (7H09047-MSD2)					**QC Source: BQH0024-04**				**Extracted: 08/09/07 13:43**					
Benzene	EPA 8021B	30.6	---	0.500	ug/l	1x	0.0940	30.0	102%	(46-130)	3.97%	(40)	08/09/07 19:53	
Toluene	"	32.3	---	0.500	"	"	0.262	"	107%	(60-124)	3.86%	"	"	
Ethylbenzene	"	29.5	---	0.500	"	"	ND	"	98.4%	(56-141)	3.95%	"	"	
Xylenes (total)	"	92.2	---	1.00	"	"	0.362	90.0	102%	(66-132)	4.02%	"	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 98.2%*			*Limits: 68-140%*	"							*08/09/07 19:53*	

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Conestoga-Rovers & Associates - Everett	Project Name:	**Shell - 6808 196th Street SW, Lynnwood**	
526 Commerce Center Building B - 1420 80th Street SW, Suite	Project Number:	070728.DU1	Report Created:
Everett, WA 98203	Project Manager:	Justin Foslien	08/13/07 17:25

Notes and Definitions

Report Specific Notes:

C	-	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
C8	-	Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
Q10	-	Hydrocarbon pattern most closely resembles a blend of gasoline and diesel..
Q5	-	Results in the diesel organics range are primarily due to overlap from a gasoline range product.
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
ZX	-	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA

Kate Haney, Project Manager

BQG0672

SHELL Chain Of Custody Record

LAB:
- ☒ TA - Seattle, Washington
- ☐ TA - Portland, Oregon
- ☐ TA - Sacramento, California
- ☐ TA - Nashville, Tennessee
- ☐ Calscience
- ☐ Other______

NAME OF PERSON TO BILL: Carol Campagna

☒ ENVIRONMENTAL SERVICES ☐ NETWORK DEV / FE ☐ BILL CONSULTANT ☐ COMPLIANCE ☐ RMT/CRMT

☐ CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES

INCIDENT # (ES ONLY): 9 7 6 0 5 4 1 0

PO #:

SAP or CRMT #:

DATE: 7/28/07

PAGE: 1 of 1

SAMPLING COMPANY:	Blaine Tech Services
LOG CODE:	
ADDRESS:	1680 Rogers Avenue, San Jose, CA 95112
PROJECT CONTACT (Hardcopy or PDF Report to):	Jason Brown
TELEPHONE:	916-825-2913 x102
FAX:	916-825-2891
EMAIL:	jbrown@blainetech.com
SITE ADDRESS: Street and City	6808 196th Street SW, Lynnwood
State	WA
GLOBAL ID NO.:	NA
EDF DELIVERABLE TO (Name, Company, Office Location):	Justin Foslien, CRA, Seattle
PHONE NO.:	(425) 212-5111
EMAIL:	jfoslien@craworld.com
CONSULTANT PROJECT NO.:	070728-DW
SAMPLER NAME(S) (Print):	Dan Koskela
LAB USE ONLY	

TAT (STD IS 10 BUSINESS DAYS / RUSH IS CALENDAR DAYS): ☒ STD ☐ 5 DAY ☐ 3 DAY ☐ 2 DAY ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: ______

SPECIAL INSTRUCTIONS OR NOTES:
- ☐ EDD NOT NEEDED
- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMB RATE APPLIES
- ☑ RECEIPT VERIFICATION REQUESTED

cc Brenda Carter [bicarter@craworld.com] on pdf report

REQUESTED ANALYSIS

Field Sample Identification	Sampling Date	Sampling Time	Matrix	No. of Cont.	NW TPH-Dx w/silica gel clean up	NW TPH-Dx	NW TPH - Gx	BTEX (8021B)	5 Oxygenates (8260B) (MTBE, TBA, DIPE, TAME, ETBE)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8011B)	Ethanol (8260B)	Methanol (8015M)	Ethanol+Methanol (8015M)	EPH	VPH		FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes / TEMPERATURE ON RECEIPT C°
MW-1	7/28	715	W	5	X		X	X															-01
MW-2		730			X		X	X															-02
MW-3		745			X		X	X															-03
~~MW-4~~ 6		800			X		X	X															-04
MW-7		815			X		X	X															-05
MW-8		830			X		X	X															-06
MW-9		845			X		X	X															-07
MW-10		900			X		X	X															-08

Relinquished by: (Signature)	Received by: (Signature)		Date:	Time:
Dan Koskela [signature]	[signature]	@Lab 1600 w/o 5.4°c	7/30/07	1255
Relinquished by: (Signature)	Received by: (Signature)		Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)		Date:	Time:

05/02/06 Revision

Q&Q Graphic (714) 889-9702