GROUNDWATER MONITORING REPORT-SECOND QUARTER 2009

JIFFY LUBE FACILITY
4902 25th AVENUE NE
SEATTLE, WASHINGTON

SAP CODE	171156
INCIDENT NO.	97605414
AGENCY NO.	41675877
VCP NO.	NW2079

Prepared by:
Conestoga-Rovers & Associates

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JULY 17, 2009
REF. NO. 241735 (5)
This report is printed on recycled paper.

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1.0 INTRODUCTION

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

1.1 SITE INFORMATION

Site Address	4902 25th Avenue NE, Seattle
Site Use	Jiffy Lube Facility
Shell Project Manager	Carol Campagna
CRA Project Manager	Justin Foslien
Lead Agency and Contact	WDOE, Libby Goldstein
Agency Case No.	41675877
Shell SAP Code:	171156
Shell Incident No.	97605414
VCP No.	NW2079

The most recent agency correspondence on record is dated March 5, 2009.

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled wells according to the established monitoring program for this site.

CRA prepared a vicinity map (Figure 1) and a groundwater elevation contour and chemical concentration map (Figure 2). CRA prepared Tables 1 and 2 summarizing groundwater monitoring data and the laboratory analytical results. Field forms and the laboratory analytical report are included as Appendices A and B, respectively.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Estimated to the south
Hydraulic Gradient	0.008 feet/foot
Depth to Water	1.93 to 3.65 feet below top of well casing

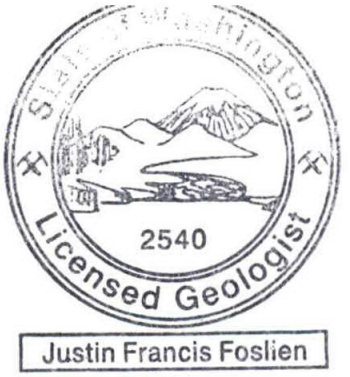
2.3 PROPOSED ACTIVITIES FOR NEXT QUARTER

Blaine will gauge and sample wells during the second month of the third quarter of 2009, according to the established monitoring program for this site.

2.4 DISCUSSION

Monitoring wells MW-1 through MW-4 were gauged for depth to water and sampled for laboratory analysis on May 11, 2009. All analyte concentrations in the groundwater sampled collected for all monitoring wells were below the Washington State Department of Ecology Model Toxics Control Act Method A cleanup levels.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

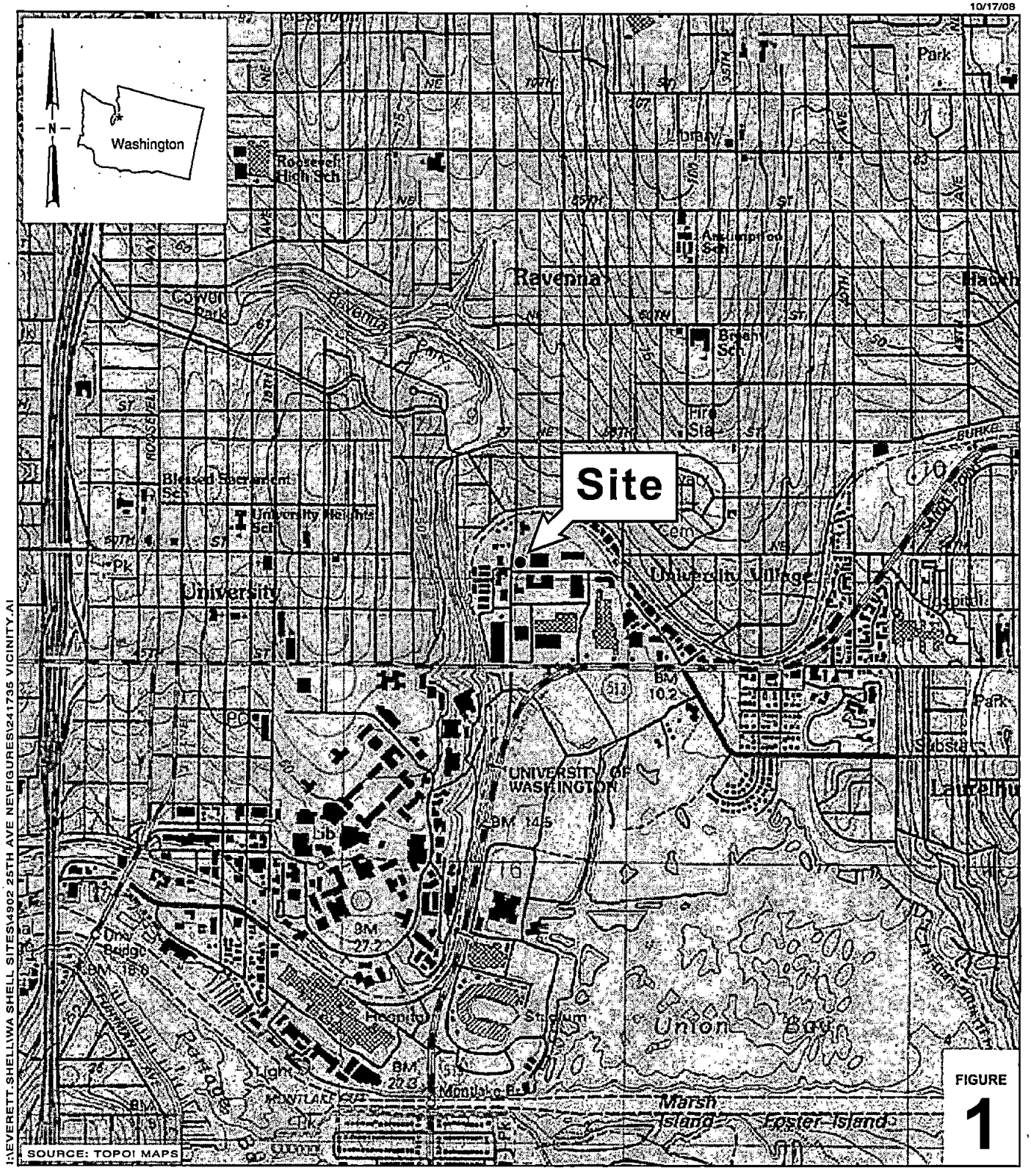


Jing Song

Justin Foslien, LG

FIGURES

10/17/08



I:\EVERETT.SHELL\WA SHELL SITES\4902 25TH AVE NE\FIGURES\241735 VICINITY.AI

FIGURE
1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Jiffy Lube No. 2075
4902 25th Avenue N.E.
Seattle, Washington

CONESTOGA-ROVERS
& ASSOCIATES

Vicinity Map

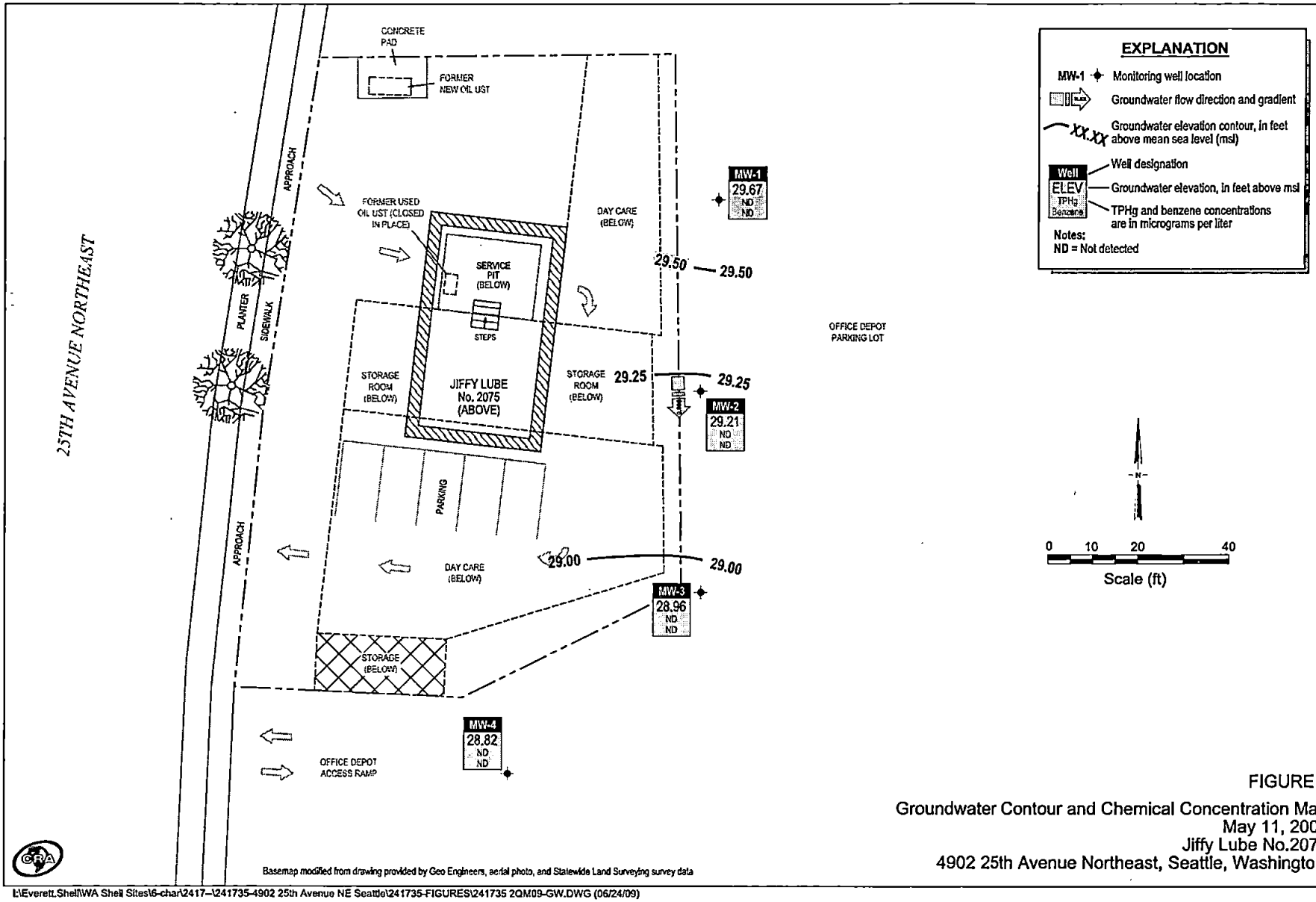


FIGURE 2

Groundwater Contour and Chemical Concentration Map
May 11, 2009
Jiffy Lube No.2075
4902 25th Avenue Northeast, Seattle, Washington

Basemap modified from drawing provided by Geo Engineers, aerial photo, and Statewide Land Surveying survey data

I:\Everett.Shell\WA Shell Sites\6-char\2417--\241735-4902 25th Avenue NE Seattle\241735-FIGURES\241735 2QM09-GW.DWG (06/24/09)

TABLES

TABLE 1

SUMMARY OF GROUNDWATER MONITORING DATA - PETROLEUM HYDROCARBONS, BTEX, MTBE, AND OXYGENATES

4902 25TH AVENUE NE
SEATTLE, WASHINGTON

Sample ID	*Date*	*TOC*	*DTW*	*GWE*	*TPHg*	*TPHd*	*TPHo*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	*Total Lead*
Model Toxics Control Act Method A Cleanup Levels					800/1000	500	500	5	1000	700	1000	20					15
MW-1	05/21/08	32.11	3.00	29.11	<50	<250	<400	<1.00	<1.00	<1.00	<1.00	<1.00	<5	<1	<1	<1	94.2
MW-1	08/14/08	32.11	3.40	28.71	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	75.6
MW-1	11/26/08	32.11	2.75	29.36	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	44.1
MW-1	02/05/09	32.11	2.66	29.45	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<1.00
MW-1	05/11/09	32.11	2.44	29.67	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<1.00
MW-2	05/21/08	31.72	2.84	28.88	<50	<250	<400	<1.00	<1.00	<1.00	<1.00	<1.00	<5	<1	<1	<1	23.4
MW-2	08/14/08	31.72	3.51	28.21	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	27.2
MW-2	11/26/08	31.72	3.16	28.56	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	21.8
MW-2	02/05/09	31.72	3.41	28.31	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<1.00
MW-2	05/11/09	31.72	2.51	29.21	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<1.00
MW-3	05/21/08	30.89	2.44	28.45	73	<250	<400	<1.00	<1.00	<1.00	<1.00	<1.00	<5	<1	<1	<1	111
MW-3	08/14/08	30.89	2.75	28.14	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	67.6
MW-3	11/26/08	30.89	2.34	28.55	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	43.3
MW-3	02/05/09	30.89	2.14	28.75	100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<1.00
MW-3	05/11/09	30.89	1.93	28.96	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<1.00
MW-4	05/21/08	32.47	4.08	28.39	<50	<250	<400	<1.0	<1.0	<1.0	<1.0	<1.00	<5	<1	<1	<1	53.9
MW-4	08/14/08	32.47	4.39	28.08	<100	210 a	—	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	55.8
MW-4	11/26/08	32.47	3.85	28.62	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2	<2	<2	53.0
MW-4	02/05/09	32.47	3.76	28.71	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<1.00
MW-4	05/11/09	32.47	3.65	28.82	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<1.00

Notes:

DTW = Depth to Water in feet

GWE = Groundwater Elevation in feet above mean sea level.

TOC = Top of Casing in feet above mean sea level.

All results in µg/L unless otherwise indicated.

TPHg = Total petroleum hydrocarbons as gasoline analyzed by NWTPH-Gx unless otherwise noted.

TPHd = Total petroleum hydrocarbons as diesel, analyzed by NWTPH-Dx unless otherwise noted

TPHo = Total petroleum hydrocarbons as oil, analyzed by NWTPH-Dx unless otherwised noted.

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

MTBE = Methyl tertiary-butyl 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

TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B

Total Lead analyzed by EPA Method 6010

<x = Not detected at laboratory reporting limit x

— = Not analyzed

TABLE 2

SUMMARY OF GROUNDWATER MONITORING DATA - POLYCYCLIC AROMATIC HYDROCARBONS

4902 25TH AVENUE NE
SEATTLE, WASHINGTON

Sample ID	Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Fluoranthene	Fluorene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene
Model Toxics Control Act Method A Cleanup Levels														0.1					
MW-1	05/21/08	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-1	08/14/08	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-1	11/26/08	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-1	02/05/09	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-1	05/11/09	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-2	05/21/08	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-2	08/14/08	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-2	11/26/08	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-2	02/05/09	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-2	05/11/09	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-3	05/21/08	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-3	08/14/08	0.33	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-3	11/26/08	0.15	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-3	02/05/09	0.22	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-3	05/11/09	0.22	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-4	05/21/08	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-4	08/14/08	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MW-4	11/26/08	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-4	02/05/09	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-4	05/11/09	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Notes:

Polycyclic aromatic hydrocarbons(PAH) analyzed by EPA Method 8270C-SIM.
All results in ug/L unless otherwise indicated.
<x = Not detected at laboratory reporting limit x
— = Not analyzed

APPENDIX A

BLAINE TECH SERVICES, INC.

FIELD FORMS

Appendix A – Job Clearance Form

Job Clearance Form

Station #	Station Address: 4902 25th Ave Seattle	Work Order Number: 090511-541	Date: 5/11/09
Contractor Company Name: BTS	Contractor person in charge (print name): S. Lane	Number of Workers: 1	JSA Reference Number: (if required)
Start Time: 0800	End Time: 1145	Lunch:	Travel Time:
Travel Distance:			

Problem/Work Description: Sample 4 wells

Return Call: yes / no

Damage Claim: yes / no

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

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

Examples of Higher / Medium tasks

- [ ] Works at heights: in all cases on open sites - on closed 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 ore sparignition
- [ ] 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

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

Contractor representative name	Signature
S. Lane	S Lane

Site representative name	Signature
Jiffy Lube	

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

PARTS - Ordered, Replaced and/or Disposed Of (include model and serial no 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.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE
- [ ] SPL Houston
- [ ] XENCO
- [ ] TEST AMERICA
- [ ] OTHER

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SOACH
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Carol Compagna

INCIDENT # (ENV SERVICES): 9 7 6 0 5 4 1 4 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 5/11/09

PO #:

SAP #:

PAGE: 1 of 1

SUPPLY COMPANY: Blaine Tech Services

LOG CODE:

SITE ADDRESS: Street and City: 4902 25th Ave. NE, Seattle

State: WA

GLOBAL ID NO: NA

ADDRESS: 680 Rogers Avenues, San Jose, Ca

EDF DELIVERABLE TO (Name, Company, Office Location): Christine Schweigert, CRA, Everett

PHONE NO.: 425-212-5100

E-MAIL: cschweigert@CRAworld.com

CONSULTANT PROJECT NO.: 090511-SL1

PROJECT CONTACT (Hardcopy or PDF Report to): Dan Koskela

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

TELEPHONE: 916-925-2913x101

FAX: 916-925-2891

E-MAIL: dkoskela@blainetech.com

CRA USE ONLY:

TURNAROUND TIME (CALENDAR DAYS):
- [x] 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:
Please send an additional copy of Lab Results to:
shell.lab.billing@craworld.com

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

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING 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)	EDB, EDC (8260B)	Total Lead (6020)	PCBs (8082)	PAHs (8070 SIM)	VOCs Full list (8260B)	Pest (8080)	NWTPH-VPH	NWTPH-EPH	n-Hexane (9071B)	TEMPERATURE ON RECV C°	Container PID Readings or Laboratory Notes
	MW-1	5/11/09	0950	W	X	X		X	X	8	X	X	X	X		X		X							
	MW-2	"	1120	W	X	X		X	X	8	X	X	X	X		X		X							
	MW-3	"	1035	W	X	X		X	X	8	X	X	X	X		X		X							
	MW-4	"	0905	W	X	X		X	X	8	X	X	X	X		X		X							

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

05/2/08 Revision

WELLHEAD INSPECTION FORM

Client: Shell Site: 97605414 Date 5/11/09

Job #: 090511-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														
MW-2	X														
MW-3	X														
MW-4	X														

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:

97605414 — INCIDENT #

Carol Campagna — Shell Engineer

4902 — street number

24th — street name

Ave — street name

Seattle — city

— state

WELL I.D.	~~GALS.~~ mL	WELL I.D.	GALS.
MW-1	6300		/
MW-2	5400		/
MW-3	6900		/
MW-4	4800		/
	/		/
	/		/
	/		/
	/		/

added equip. rinse water / mL

any other adjustments /

TOTAL ~~GALS.~~ RECOVERED 22.8 L

loaded onto BTS vehicle # 71

BTS event # 090511-SL1 time 1130 date 05/11/09

signature

RECEIVED AT BTS Kent time / date / /

unloaded by signature

WELL GAUGING DATA

Project # 090511-SL1 Date 5/11/09 Client Shell

Site 4902 25th Ave Seattle

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	0814	2					2.44	7.30		
MW-2	0809	2					2.51	7.45		
MW-3	0805	2					1.93	7.10		
MW-4	0810	2					3.65	12.90		
	Calibration					Temp				
	0822		pH 4 7 10	pH 4.01 6.99 10.00		16.97°C				
	0827		3900uS	3900uS		17.04°C				
	0829		244mV @15C	240.3mV		17.08°C				
	0832		100% DO	98.3%		15.42°C				
	0835		20/100/800 NTU	20/100/800 NTU		←				

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090511-SL1	Client: Shell 97605444
Sampler: SL	Start Date: 5/11/09
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 7.70	Depth to Water Pre: 2.44 Post: 2.46
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 ___
Flow Rate: 300 ml/m Pump Depth: 5'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
0927	14.68	6.79	512	187	2.66	61.2	900	DTW 2.46
0930	14.80	6.35	510	143	2.02	49.1	1800	2.46
0933	14.92	6.63	509	102	2.05	41.7	2700	2.46
0936	14.99	6.70	509	89	1.79	34.5	3600	2.46
0939	15.07	6.73	509	84	1.75	29.6	4500	2.46
0942	15.11	6.76	509	83	1.80	27.9	5400	2.46
0945	15.12	6.77	510	79	1.83	27.1	6300	2.46

Did well dewater? Yes (No) Amount actually evacuated: 6300 ml

Sampling Time: 0950 Sampling Date: 5/11/09

Sample I.D.: MW-1 Laboratory: CalScience

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

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090511-SL1	Client: Shell 97605444
Sampler: SL	Start Date: 5/11/09
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 7.45	Depth to Water Pre: 2.57 Post: 2.57
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 ___
Flow Rate: 300 mL/m Pump Depth: 5'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
1104	15.57	6.04	535	57	4.80	65.4	900	DTW 2.57
1107	15.54	6.39	539	30	3.35	39.8	1800	2.57
1110	15.53	6.52	540	20	2.01	29.1	2700	2.57
1113	15.47	6.58	542	14	1.99	23.9	3600	2.57
1116	15.43	6.62	543	12	1.95	21.3	4500	2.57
1119	15.40	6.65	544	12	1.91	21.7	5400	2.57

Did well dewater? Yes (No) Amount actually evacuated: 5400 mL

Sampling Time: 1120 Sampling Date: 5/11/09

Sample I.D.: MW-2 Laboratory: CalScience

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

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090511-SL1	Client: Shell 97605414
Sampler: SL	Start Date: 5/11/09
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 7.10	Depth to Water Pre: 1.93 Post: 1.96
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 ___
Flow Rate: 300 mL/m Pump Depth: 51

Time	Temp. (°C or °F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Observations
1013	15.35	6.58	473	108	3.75	37.8	900	DTW 1.96
1016	15.43	6.74	472	82	2.08	19.7	1800	1.96
1019	15.46	6.79	472	71	1.78	15.2	2700	1.96
1022	15.49	6.82	471	57	1.62	11.4	3600	1.96
1025	15.50	6.87	471	29	1.59	4.6	4500	1.96
1028	15.51	6.90	470	31	1.55	3.2	5400	1.96
1031	15.53	6.91	468	31	1.51	2.9	6300	1.96

Did well dewater? Yes (No) Amount actually evacuated: 6300mL
Sampling Time: 1035 Sampling Date: 5/11/09
Sample I.D.: MW-3 Laboratory: Calscience
Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC
Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090511-SL1	Client: Shell 97605444
Sampler: SL	Start Date: 5/11/09
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 12.90	Depth to Water Pre: 3.65 Post: 3.72
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 ___
Flow Rate: 200mL/m Pump Depth: 7'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
0840	14.28	7.01	631	47	4.18	23.4	600	DTW 3.72
0843	14.28	6.97	596	35	3.69	21.1	1200	3.72
0846	14.29	6.98	587	26	3.15	14.1	1800	3.72
0849	14.31	6.95	585	19	2.97	-2.2	2400	3.72
0852	14.34	6.93	584	18	2.82	-6.0	3000	3.72
0855	14.39	6.94	577	14	2.57	-16.3	3600	3.72
0858	14.37	6.94	576	15	2.50	-18.7	4200	3.72
0901	14.39	6.94	575	14	2.48	-19.6	4800	3.72

Did well dewater? Yes (No) Amount actually evacuated: 4800mL
Sampling Time: 0905 Sampling Date: 5/11/09
Sample I.D.: MW-4 Laboratory: Calscience
Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC
Equipment Blank I.D.: @ Time Duplicate I.D.:

APPENDIX B

LABORATORY ANALYTICAL REPORT

Calscience
Environmental
Laboratories, Inc.

May 26, 2009

Dan Koskela
Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject: **Calscience Work Order No.:** **09-05-1147**
Client Reference: **4902 25th Ave., NE. Seattle, WA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/13/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jessie Lee
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 05/13/09
Work Order No: 09-05-1147
Preparation: EPA 3020A Total
Method: EPA 6020

Project: 4902 25th Ave., NE. Seattle, WA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-05-1147-1-D	05/11/09 09:50	Aqueous	ICP/MS 03	05/13/09	05/15/09 04:32	090513L03A

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	09-05-1147-2-D	05/11/09 11:20	Aqueous	ICP/MS 03	05/13/09	05/15/09 04:35	090513L03A

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	09-05-1147-3-D	05/11/09 10:35	Aqueous	ICP/MS 03	05/13/09	05/15/09 04:38	090513L03A

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	09-05-1147-4-D	05/11/09 09:05	Aqueous	ICP/MS 03	05/13/09	05/15/09 04:41	090513L03A

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	096-06-003-2,100	N/A	Aqueous	ICP/MS 03	05/13/09	05/13/09 20:38	090513L03A

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	05/13/09
1680 Rogers Avenue	Work Order No:	09-05-1147
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	NWTPH-Gx

Project: 4902 25th Ave., NE. Seattle, WA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-05-1147-1-C	05/11/09 09:50	Aqueous	GC 1	05/22/09	05/22/09 21:56	090522B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	86	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	09-05-1147-2-C	05/11/09 11:20	Aqueous	GC 1	05/22/09	05/22/09 22:28	090522B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	86	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	09-05-1147-3-C	05/11/09 10:35	Aqueous	GC 1	05/22/09	05/22/09 23:00	090522B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	88	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	09-05-1147-4-C	05/11/09 09:05	Aqueous	GC 1	05/22/09	05/22/09 23:32	090522B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	83	38-134	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	05/13/09
1680 Rogers Avenue	Work Order No:	09-05-1147
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	NWTPH-Gx

Project: 4902 25th Ave., NE. Seattle, WA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-743-246	N/A	Aqueous	GC 1	05/22/09	05/22/09 13:58	090522B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	83	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	05/13/09
1680 Rogers Avenue	Work Order No:	09-05-1147
San Jose, CA 95112-1105	Preparation:	EPA 3510C
	Method:	NWTPH-Dx
	Units:	ug/L
Project: 4902 25th Ave., NE. Seattle, WA		Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-05-1147-1-E	05/11/09 09:50	Aqueous	GC 43	05/15/09	05/17/09 18:52	090515B15

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPH as Diesel Range	ND	100	1		TPH as Motor Oil Range	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	74	68-140							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	09-05-1147-2-E	05/11/09 11:20	Aqueous	GC 43	05/15/09	05/17/09 19:12	090515B15

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPH as Diesel Range	ND	100	1		TPH as Motor Oil Range	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	77	68-140							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	09-05-1147-3-E	05/11/09 10:35	Aqueous	GC 43	05/15/09	05/17/09 19:32	090515B15

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPH as Diesel Range	ND	100	1		TPH as Motor Oil Range	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	76	68-140							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	09-05-1147-4-E	05/11/09 09:05	Aqueous	GC 43	05/15/09	05/17/09 19:53	090515B15

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPH as Diesel Range	ND	100	1		TPH as Motor Oil Range	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	81	68-140							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-840-91	N/A	Aqueous	GC 43	05/15/09	05/17/09 17:51	090515B15

Parameter	Result	RL	DF	Qual
TPH as Diesel Range	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	72	68-140		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	05/13/09
1680 Rogers Avenue	Work Order No:	09-05-1147
San Jose, CA 95112-1105	Preparation:	EPA 3510C
	Method:	EPA 8270C SIM NWPAH
	Units:	ug/L
Project: 4902 25th Ave., NE. Seattle, WA		Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-05-1147-1-H	05/11/09 09:50	Aqueous	GC/MS GG	05/15/09	05/22/09 11:54	090515L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.10	1		Pyrene	ND	0.10	1	
2-Methylnaphthalene	ND	0.10	1		Benzo (a) Anthracene	ND	0.10	1	
1-Methylnaphthalene	ND	0.10	1		Chrysene	ND	0.10	1	
Acenaphthylene	ND	0.10	1		Benzo (k) Fluoranthene	ND	0.10	1	
Acenaphthene	ND	0.10	1		Benzo (b) Fluoranthene	ND	0.10	1	
Fluorene	ND	0.10	1		Benzo (a) Pyrene	ND	0.10	1	
Phenanthrene	ND	0.10	1		Indeno (1,2,3-c,d) Pyrene	ND	0.10	1	
Anthracene	ND	0.10	1		Dibenz (a,h) Anthracene	ND	0.10	1	
Fluoranthene	ND	0.10	1		Benzo (g,h,i) Perylene	ND	0.10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	129	28-139			2-Fluorobiphenyl	87	33-144		
p-Terphenyl-d14	89	23-160							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	09-05-1147-2-H	05/11/09 11:20	Aqueous	GC/MS GG	05/15/09	05/22/09 12:39	090515L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.10	1		Pyrene	ND	0.10	1	
2-Methylnaphthalene	ND	0.10	1		Benzo (a) Anthracene	ND	0.10	1	
1-Methylnaphthalene	ND	0.10	1		Chrysene	ND	0.10	1	
Acenaphthylene	ND	0.10	1		Benzo (k) Fluoranthene	ND	0.10	1	
Acenaphthene	ND	0.10	1		Benzo (b) Fluoranthene	ND	0.10	1	
Fluorene	ND	0.10	1		Benzo (a) Pyrene	ND	0.10	1	
Phenanthrene	ND	0.10	1		Indeno (1,2,3-c,d) Pyrene	ND	0.10	1	
Anthracene	ND	0.10	1		Dibenz (a,h) Anthracene	ND	0.10	1	
Fluoranthene	ND	0.10	1		Benzo (g,h,i) Perylene	ND	0.10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	121	28-139			2-Fluorobiphenyl	86	33-144		
p-Terphenyl-d14	87	23-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	05/13/09
1680 Rogers Avenue	Work Order No:	09-05-1147
San Jose, CA 95112-1105	Preparation:	EPA 3510C
	Method:	EPA 8270C SIM NWPAH
	Units:	ug/L

Project: 4902 25th Ave., NE. Seattle, WA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	09-05-1147-3-H	05/11/09 10:35	Aqueous	GC/MS GG	05/15/09	05/22/09 13:25	090515L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.10	1		Pyrene	ND	0.10	1	
2-Methylnaphthalene	ND	0.10	1		Benzo (a) Anthracene	ND	0.10	1	
1-Methylnaphthalene	ND	0.10	1		Chrysene	ND	0.10	1	
Acenaphthylene	ND	0.10	1		Benzo (k) Fluoranthene	ND	0.10	1	
Acenaphthene	0.22	0.10	1		Benzo (b) Fluoranthene	ND	0.10	1	
Fluorene	ND	0.10	1		Benzo (a) Pyrene	ND	0.10	1	
Phenanthrene	ND	0.10	1		Indeno (1,2,3-c,d) Pyrene	ND	0.10	1	
Anthracene	ND	0.10	1		Dibenz (a,h) Anthracene	ND	0.10	1	
Fluoranthene	ND	0.10	1		Benzo (g,h,i) Perylene	ND	0.10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	116	28-139			2-Fluorobiphenyl	83	33-144		
p-Terphenyl-d14	86	23-160							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	09-05-1147-4-H	05/11/09 09:05	Aqueous	GC/MS GG	05/15/09	05/22/09 14:10	090515L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.10	1		Pyrene	ND	0.10	1	
2-Methylnaphthalene	ND	0.10	1		Benzo (a) Anthracene	ND	0.10	1	
1-Methylnaphthalene	ND	0.10	1		Chrysene	ND	0.10	1	
Acenaphthylene	ND	0.10	1		Benzo (k) Fluoranthene	ND	0.10	1	
Acenaphthene	ND	0.10	1		Benzo (b) Fluoranthene	ND	0.10	1	
Fluorene	ND	0.10	1		Benzo (a) Pyrene	ND	0.10	1	
Phenanthrene	ND	0.10	1		Indeno (1,2,3-c,d) Pyrene	ND	0.10	1	
Anthracene	ND	0.10	1		Dibenz (a,h) Anthracene	ND	0.10	1	
Fluoranthene	ND	0.10	1		Benzo (g,h,i) Perylene	ND	0.10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	100	28-139			2-Fluorobiphenyl	78	33-144		
p-Terphenyl-d14	80	23-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Blaine Tech Services, Inc.	Date Received:	05/13/09
1680 Rogers Avenue	Work Order No:	09-05-1147
San Jose, CA 95112-1105	Preparation:	EPA 3510C
	Method:	EPA 8270C SIM NWPAH
	Units:	ug/L
Project: 4902 25th Ave., NE. Seattle, WA		Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-824-32	N/A	Aqueous	GC/MS GG	05/15/09	05/19/09 11:10	090515L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.10	1		Pyrene	ND	0.10	1	
2-Methylnaphthalene	ND	0.10	1		Benzo (a) Anthracene	ND	0.10	1	
1-Methylnaphthalene	ND	0.10	1		Chrysene	ND	0.10	1	
Acenaphthylene	ND	0.10	1		Benzo (k) Fluoranthene	ND	0.10	1	
Acenaphthene	ND	0.10	1		Benzo (b) Fluoranthene	ND	0.10	1	
Fluorene	ND	0.10	1		Benzo (a) Pyrene	ND	0.10	1	
Phenanthrene	ND	0.10	1		Indeno (1,2,3-c,d) Pyrene	ND	0.10	1	
Anthracene	ND	0.10	1		Dibenz (a,h) Anthracene	ND	0.10	1	
Fluoranthene	ND	0.10	1		Benzo (g,h,i) Perylene	ND	0.10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Nitrobenzene-d5	122	28-139			2-Fluorobiphenyl	91	33-144		
p-Terphenyl-d14	92	23-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH elac

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 05/13/09
Work Order No: 09-05-1147
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: 4902 25th Ave., NE. Seattle, WA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-05-1147-1-A	05/11/09 09:50	Aqueous	GC/MS M	05/21/09	05/21/09 14:58	090521L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	110	82-130			1,2-Dichloroethane-d4	107	75-141		
Toluene-d8	104	83-113			1,4-Bromofluorobenzene	96	70-118		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	09-05-1147-2-A	05/11/09 11:20	Aqueous	GC/MS M	05/21/09	05/21/09 16:45	090521L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	115	82-130			1,2-Dichloroethane-d4	124	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	96	70-118		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	09-05-1147-3-A	05/11/09 10:35	Aqueous	GC/MS M	05/21/09	05/21/09 17:12	090521L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	114	82-130			1,2-Dichloroethane-d4	118	75-141		
Toluene-d8	104	83-113			1,4-Bromofluorobenzene	99	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Blaine Tech Services, Inc.	Date Received:	05/13/09
1680 Rogers Avenue	Work Order No:	09-05-1147
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L
Project: 4902 25th Ave., NE. Seattle, WA		Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**09-05-1147-4-A**	**05/11/09 09:05**	**Aqueous**	**GC/MS M**	**05/21/09**	**05/21/09 17:40**	**090521L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	111	82-130			1,2-Dichloroethane-d4	117	75-141		
Toluene-d8	103	83-113			1,4-Bromofluorobenzene	98	70-118		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-29,595**	**N/A**	**Aqueous**	**GC/MS M**	**05/21/09**	**05/21/09 12:44**	**090521L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	109	82-130			1,2-Dichloroethane-d4	111	75-141		
Toluene-d8	104	83-113			1,4-Bromofluorobenzene	98	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Blaine Tech Services, Inc.		Date Received:	05/13/09
1680 Rogers Avenue		Work Order No:	09-05-1147
San Jose, CA 95112-1105		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020

Project 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-05-1030-9	Aqueous	ICP/MS 03	05/13/09	05/14/09	090513S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	94	93	79-121	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH elap

Blaine Tech Services, Inc.		Date Received:	05/13/09
1680 Rogers Avenue		Work Order No:	09-05-1147
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-05-1478-1	Aqueous	GC 1	05/22/09	05/22/09	090522S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	90	87	68-122	3	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Blaine Tech Services, Inc.	Date Received:	05/13/09
1680 Rogers Avenue	Work Order No:	09-05-1147
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-05-1478-2	Aqueous	GC/MS M	05/21/09	05/21/09	090521S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	109	111	88-118	1	0-7	
Toluene	106	108	87-123	2	0-8	
Ethylbenzene	106	108	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	101	103	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	100	100	36-168	1	0-45	
Diisopropyl Ether (DIPE)	114	120	81-123	5	0-9	
Ethyl-t-Butyl Ether (ETBE)	107	109	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	106	103	72-126	2	0-12	
Ethanol	107	119	53-149	11	0-31	
1,1-Dichloroethene	104	109	70-130	4	0-25	
1,2-Dibromoethane	101	94	70-130	7	0-30	
1,2-Dichlorobenzene	98	100	86-116	2	0-8	
Carbon Tetrachloride	97	108	67-145	10	0-11	
Chlorobenzene	104	103	88-118	2	0-7	
Trichloroethene	103	109	79-127	6	0-10	
Vinyl Chloride	116	128	69-129	10	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH ELAP

Blaine Tech Services, Inc.		Date Received:	N/A
1680 Rogers Avenue		Work Order No:	09-05-1147
San Jose, CA 95112-1105		Preparation:	EPA 3020A Total
		Method:	EPA 6020

Project: 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-2,100	Aqueous	ICP/MS 03	05/13/09	05/13/09	090513L03A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	97	97	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.		Date Received:	N/A
1680 Rogers Avenue		Work Order No:	09-05-1147
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	NWTPH-Gx

Project: 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-743-246	Aqueous	GC 1	05/22/09	05/22/09	090522B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	86	90	78-120	4	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH elap

Blaine Tech Services, Inc.		Date Received:	N/A
1680 Rogers Avenue		Work Order No:	09-05-1147
San Jose, CA 95112-1105		Preparation:	EPA 3510C
		Method:	NWTPH-Dx

Project: 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-840-91	Aqueous	GC 43	05/15/09	05/17/09	090515B15

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel Range	86	83	75-117	4	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 09-05-1147
Preparation: EPA 3510C
Method: EPA 8270C SIM NWPAH

Project: 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-824-32	Aqueous	GC/MS GG	05/15/09	05/19/09	090515L04

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Naphthalene	88	87	21-133	2-152	1	0-25	
2-Methylnaphthalene	85	83	21-140	1-160	2	0-25	
1-Methylnaphthalene	89	88	20-140	0-160	1	0-25	
Acenaphthylene	81	78	33-145	14-164	4	0-25	
Acenaphthene	86	86	55-121	44-132	1	0-25	
Fluorene	83	81	59-121	49-131	2	0-25	
Phenanthrene	78	78	54-120	43-131	0	0-25	
Anthracene	67	65	27-133	9-151	3	0-25	
Fluoranthene	67	68	26-137	8-156	1	0-25	
Pyrene	92	90	45-129	31-143	2	0-25	
Benzo (a) Anthracene	70	68	33-143	15-161	3	0-25	
Chrysene	81	82	17-168	0-193	1	0-25	
Benzo (k) Fluoranthene	83	83	24-159	2-182	0	0-25	
Benzo (b) Fluoranthene	80	79	24-159	2-182	0	0-25	
Benzo (a) Pyrene	74	71	17-163	0-187	5	0-25	
Indeno (1,2,3-c,d) Pyrene	58	51	0-171	0-200	13	0-25	
Dibenz (a,h) Anthracene	60	55	0-219	0-256	8	0-25	
Benzo (g,h,i) Perylene	66	62	0-227	0-265	6	0-25	

Total number of LCS compounds : 18
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Blaine Tech Services, Inc.		Date Received:	N/A
1680 Rogers Avenue		Work Order No:	09-05-1147
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-29,595	Aqueous	GC/MS M	05/21/09	05/21/09	090521L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	112	112	84-120	78-126	0	0-8	
Carbon Tetrachloride	111	109	63-147	49-161	2	0-10	
Chlorobenzene	107	107	89-119	84-124	0	0-7	
1,2-Dibromoethane	107	110	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	101	102	89-119	84-124	1	0-9	
1,1-Dichloroethene	108	110	77-125	69-133	2	0-16	
Ethylbenzene	111	111	80-120	73-127	0	0-20	
Toluene	109	109	83-125	76-132	1	0-9	
Trichloroethene	109	112	89-119	84-124	3	0-8	
Vinyl Chloride	118	129	63-135	51-147	9	0-13	
Methyl-t-Butyl Ether (MTBE)	106	109	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	102	107	46-154	28-172	4	0-32	
Diisopropyl Ether (DIPE)	115	119	81-123	74-130	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	108	111	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	109	112	76-124	68-132	3	0-10	
Ethanol	122	124	60-138	47-151	1	0-32	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-05-1147

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE
- [ ] SPL Houston
- [ ] XENCO
- [ ] TEST AMERICA
- [ ] OTHER

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Carol Compagna

INCIDENT # (ENV SERVICES): 9 7 6 0 5 4 1 4 — [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5/11/09

PAGE: 1 of 1

PO #:

SAP #:

APPLICO COMPANY: Jaine Tech Services

LOG CODE:

SITE ADDRESS: Street and City: 4902 25th Ave. NE, Seattle

State: WA

GLOBAL ID#: NA

ADDRESS: 680 Rogers Avenues, San Jose, Ca

EDF DELIVERABLE TO (Name, Company, Office Location): Christine Schweigert, CRA, Everett

PHONE NO.: 425-212-5100

E-MAIL: cschweigert@CRAworld.com

CONSULTANT PROJECT NO.: 090511-SL1

PROJECT CONTACT (Hardcopy or PDF Report to): Dan Koskela

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

TELEPHONE: 916-925-2913x101

FAX: 916-925-2891

E-MAIL: dkoskela@blainetech.com

LAB USE ONLY: 09-05-1147

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

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

SPECIAL INSTRUCTIONS OR NOTES:
Please send an additional copy of Lab Results to:
shell.lab.billing@craworld.com

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

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

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING 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)	EDB, EDC (8260B)		Total Lead (6020)	PCBs (8082)	PAHs (8070 SIM)	VOCs Full list (8260B)	Pest (8080)	NWTPH-VPH	NWTPH-EPH	n-Hexane (8021B)	TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
1	MW-1	5/11/09	0750	W	X	X		X	X	8	X	X	X	X			X		X							
2	MW-2		1120	W	X	X		X	X	8	X	X	X	X			X		X							
3	MW-3		1035	W	X	X		X	X	8	X	X	X	X			X		X							
4	MW-4		0905	W	X	X		X	X	8	X	X	X	X			X		X							

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
S. Lane	S. Lane (FedEx)	5/11/09	1630
FEDEX #866869734470	Preeya A - CA	5/13/09	10:00

05/2006 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-05- 1 1 7 4 7

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: BLAINE TECH

DATE: 05 / 13 / 09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2 . 9 °C - 0.2 °C (CF) = 2 . 7 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** PS

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** PS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** PS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐2 ☐_____

Water: ☐VOA ☑3 VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☑2 1AGBna_2 ☐1AGBs ☐500AGB ☑2 500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☑250PBn ☐125PB ☐125PBznna ☐100PB ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Other:** ☐_____ **Checked/Labeled by:** PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth) **Reviewed by:** RN

Preservative: h: HCL n: HNO3 na_2:$Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** PS

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-05- 1174

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: BLAINE TECH

DATE: 05 / 13 / 09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.5 °C - 0.2 °C (CF) = 2.3 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** PS

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** PS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** PS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® 2 ☐_____

Water: ☐VOA ☑3 VOAh ☐VOA**na₂** ☐125AGB ☐125AGBh ☐125AGB**p** ☐1AGB ☑2 1AGB**na₂** ☐1AGB**s** ☐500AGB ☑2 500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PB ☐100PB**na₂** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Other:** ☐_____ **Checked/Labeled by:** PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth) **Reviewed by:** RN

Preservative: h: HCL n: HNO3 na_2:$Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** PS

CONESTOGA-ROVERS & ASSOCIATES

526 Commerce Center - Building B
1420 80th Street SW, Suite A
Everett, Washington 98203
Telephone: (425) 212-5100 Fax: (425) 212-5199
www.CRAworld.com

TRANSMITTAL

DATE: June 17, 2009

REFERENCE NO.: 241735

PROJECT NAME: 4902 25th Ave. SE, Seattle, WA

TO: Libby Goldstein
Department of Ecology - NWRO
3190 160th Ave. SE
Bellevue, WA 98008-5452

RECEIVED
JUL 22 2009
DEPT OF ECOLOGY
SWRO/NWRO

Please find enclosed:
- ☒ Final
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☐ Other

Sent via:
- ☒ Mail
- ☐ Same Day Courier
- ☐ Overnight Courier
- ☒ Other Livelink

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report - Second Quarter 2009

- ☒ As Requested
- ☐ For Your Use
- ☐ For Review and Comment
- ☐
- ☐

COMMENTS:

Copy to: Ms. Carol Campagna, Shell Oil Products US, c/o Delta Consultant

Completed by: Jing Song [Please Print] Signed:

Filing: **Correspondence File**