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Q LUBET U VILLAGE
SEATTLE
Release # 361399

Vcp # NW 2079

GROUNDWATER MONITORING REPORT- FOURTH QUARTER 2008

SHELL-BRANDED SERVICE STATION
4902 25th AVENUE SE
SEATTLE, WASHINGTON

SAP CODE 171156
INCIDENT NO. 97605414
AGENCY NO. 41675877

entered
CP
2-17-09

FEBRUARY 5, 2009
REF. NO. 241735 (3)

This report is printed on recycled paper.

Prepared by:
Conestoga-Rovers
& Associates

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Everett, Washington
U.S.A. 98203

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web: <http://www.CRAworld.com>

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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 25 th Avenue NE, Seattle
Site Use	Shell-Branded Service Station
Shell Project Manager	Carol Campagna
CRA Project Manager	Justin Foslien
Lead Agency and Contact	WDOE, John Bails
Agency Case No.	41675877
Shell SAP Code:	171156
Shell Incident No.	97605414

No agency correspondence on record.

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 Attachments A and B, respectively.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Estimated to the south
Hydraulic Gradient	0.02 feet/foot
Depth to Water	2.34 to 3.85 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 first quarter of 2009, according to the established monitoring program for this site.

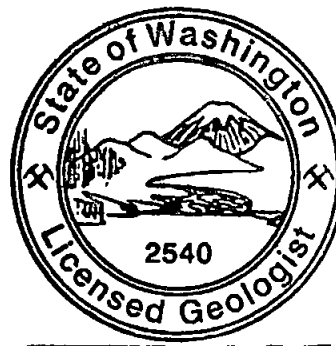
2.4 DISCUSSION

Monitoring wells MW-1 through MW-4 were gauged for depth to water and sampled for laboratory analysis on November 26, 2008. Total lead concentrations in all four wells exceeded the Washington State Department of Ecology Model Toxics Control Act (MTCA) Method A cleanup level. All other analyte concentrations in the groundwater samples collected for all monitoring wells were below the MTCA Method A cleanup levels.

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



Jing Song

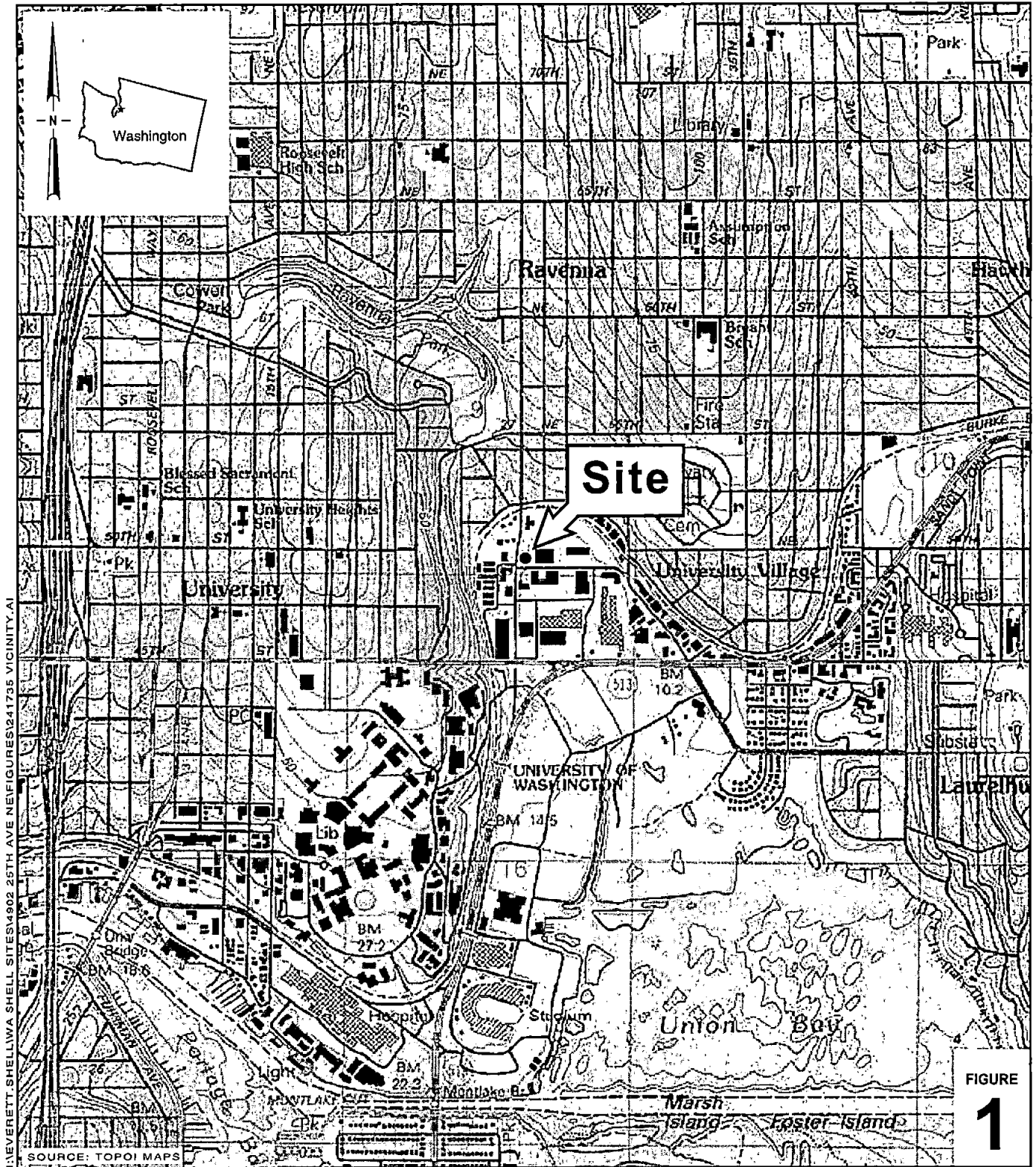


Justin Francis Foslien



Justin Foslien, LG

FIGURES



Jiffy Lube No. 2075

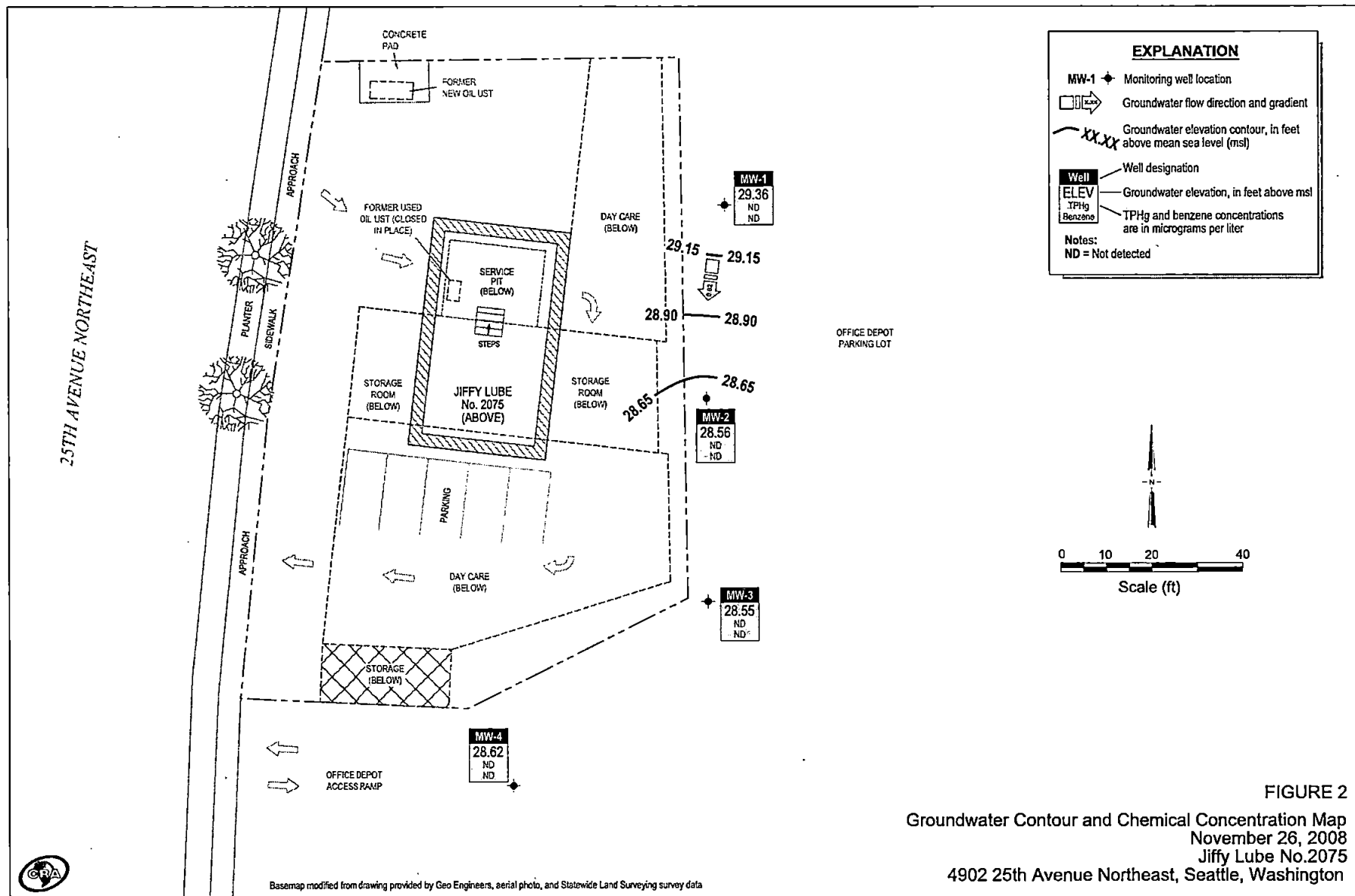
4902 25th Avenue N.E.

Seattle, Washington



**CONESTOGA-ROVERS
& ASSOCIATES**

Vicinity Map



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	Ethyl- benzene	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	—	<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-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	—	<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-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	—	<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-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 *	—	<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

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 ug/L unless otherwise indicated.

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8015 unless otherwise noted.

TPHd = Total petroleum hydrocarbons as diesel, analyzed by GC FID/3550 unless otherwise noted

Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B;

before February 26, 2008, analyzed by EPA Method 8020 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																	
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-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-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-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

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

Job Clearance Form													
Contractor 4902 25th Ave S Seattle, WA 98148		Work Order Number: 081126-302											
Contractor's Address: 4902 25th Ave S Seattle, WA 98148		Date: 11/26/08											
Contractor's Phone: 206-461-1200		Contractor's Email:											
Problem/Work Description: Sample 4 wells		Return Call: yes/no Damage Claim: yes/no											
<table border="0" style="width: 100%;"> <tr> <td>☒ SAFETY VEST</td> <td>☐ HARD HAT</td> <td>☒ SHOES & BOOTS</td> <td>☐ HEARING PROTECTION</td> <td>☐ RESPIRATOR</td> </tr> <tr> <td>☐ PROTECTIVE CLOTHING</td> <td>☒ GLOVES</td> <td>☒ SAFETY GLASSES/GOOGLES</td> <td>☐ WELDING PPE</td> <td>☐ OTHER</td> </tr> </table>				☒ SAFETY VEST	☐ HARD HAT	☒ SHOES & BOOTS	☐ HEARING PROTECTION	☐ RESPIRATOR	☐ PROTECTIVE CLOTHING	☒ GLOVES	☒ SAFETY GLASSES/GOOGLES	☐ WELDING PPE	☐ OTHER
☒ SAFETY VEST	☐ HARD HAT	☒ SHOES & BOOTS	☐ HEARING PROTECTION	☐ RESPIRATOR									
☐ PROTECTIVE CLOTHING	☒ GLOVES	☒ SAFETY GLASSES/GOOGLES	☐ WELDING PPE	☐ OTHER									
Signature of Contractor Representative: <i>[Signature]</i>													
Signature of City Representative: <i>[Signature]</i>													
Date: 11/26/08													
City: Seattle													
State: WA													
Zip: 98148													
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The contractor warrants that the information provided is true, accurate and complete, and that the contractor is not providing false information to the agency. The contractor warrants that the information provided is not confidential, proprietary, or otherwise subject to any other restrictions on disclosure. The contractor warrants that the information provided is not subject to any other restrictions on disclosure. The contractor warrants that the information provided is not subject to any other restrictions on disclosure.

LAB (LOCATION)

☒ SCIENCE ()
☒ SPL Houston ()
☐ XEROX ()
☐ TEST AMERICA ()
☐ OTHER ()



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

☒ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SDBCH ☐ 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: 11/26/88

PO #

SAP #

PAGE: 1 of 1

SAMPLING COMPANY

Blaine Tech Services

ADDRESS
1680 Rogers Avenue, San Jose, Ca

PROJECT CONTRACT (Priority or POC Report)

Eric Morso

TELEPHONE: 916-925-2913x102

FAX

916-925-2891

E-MAIL

emorso@blainetech.com

TURNAROUND TIME (CALENDAR DAYS)

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

SPECIAL INSTRUCTIONS OR NOTES:

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

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

SITE ADDRESS: Street and City

4902 25th Ave. NE, Seattle

State

WA

GLOBAL ID#

NA

EOP COVERABLE TO # (Line, Column, Code Line)

PRJ# / E# / D#

Christine Schwalger, CRA, Everett

425-212-3100

E-MAIL:

cschwalger@CRAworld.com

CONSULTANT PROJECT ID#

081126512

LAB USE ONLY

REQUESTED ANALYSIS

TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes	Field Sample Identification	SAMPLING	PRESERVATIVE	NO. OF CONT.	NWTH-OR	NWTH-OR w/ Silica Gel Cleanup	BTX (8260B)	5 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDB, EDC (8260B)	Total Lead (8020)	PCBs (8092)	PAHs (8070 SIM)	VOCs Full list (8260B)	Pest (8080)	NWTH-VPH	NWTH-EPH	n-Heptane (8071B)
		MW-1	11/26/88	1150	W	X	X	X	X	X	X	X	X	X	X	X	X	X
		MW-2	11/26/88	1150	W	X	X	X	X	X	X	X	X	X	X	X	X	X
		MW-3	11/26/88	1115	W	X	X	X	X	X	X	X	X	X	X	X	X	X
		MW-4	11/26/88	1105	W	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished by: (Signature)

Received by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Date:

Time:

Date:

Time:

Date:

Time:

WELLHEAD INSPECTION FORM

Client: Shell Site: 97605414 Date: 11/26/08
Job #: 081126-9L2 Technician: SL Page 1 of 1

[illegible]

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:

9760544 Carol Campagna
 INCIDENT # Shell Engineer
 4902 75th Seattle
 street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1, 2.1			
MW-2, 2.1			
MW-3, 2.4			
MW-4, 4.2			
added equip.		any other	
rinse water /		adjustments /	
TOTAL GALS.	11	loaded onto	71
RECOVERED		BTS vehicle #	
BTS event #	081176-912	time	1200
signature	GLR	date	11/26/98

RECEIVED AT		time	date
BTS Kent			
unloaded by			
signature			

WELL GAUGING DATA

Project # 081126-SLZ Date 11/26/08 Client Shell

Site 4902 25th Seattle

[illegible]

SHELL WELL MONITORING DATA SHEET

BTS # <u>081126512</u>	Site: <u>97605414</u>
Sampler: <u>SL</u>	Date: <u>11/26/08</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): <u>7.70</u>	Depth to Water (DTW): <u>2.75</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>3.66</u>	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other: Dedicated Tubing

<u>0.7</u> (Gals.) X <u>7</u> = <u>2.1</u> Gals.	Well Diameter Multiplier	Well Diameter Multiplier
1 Case Volume Specified Volumes Calculated Volume	1" 0.04	4" 0.65
	2" 0.16	6" 1.47
	3" 0.37	Other radius * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1142	58.7	6.6	497	>1000	0.7	
1143	59.2	6.8	515	>1000	1.4	
1145	59.2	6.9	515	>1000	2.1	

Did well dewater? Yes ☒ No ☐ Gallons actually evacuated: 2.1

Sampling Date: 11/26/08 Sampling Time: 1150 Depth to Water: 3.01

Sample I.D.: MW-1 Laboratory: STL SPL Other: CHS Science

Analyzed for: TPH-G BTEX MTBE TPH-D Oxy's 1,2-DCA EDB Other: See CA

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxy's 1,2-DCA EDB 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 #: <u>081126512</u>	Site: <u>97605414</u>
Sampler: <u>GL</u>	Date: <u>11/26/08</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): <u>7.45</u>	Depth to Water (DTW): <u>3.16</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>4.01</u>	

Purge Method: Bailer ~~Disposable Bailer~~ ~~Positive Air Displacement~~ ~~Electric Submersible~~
 Wattera ~~Peristaltic~~ ~~Extraction Pump~~
 Other:
 Sampling Method: Bailer ~~Disposable Bailer~~ ~~Extraction Port~~ ~~Dedicated Tubing~~
 Other:

<u>0.7</u> (Gals.) X <u>3</u> = <u>2.1</u> Gals.	Well Diameter Multiplier	Well Diameter Multiplier
Case Volume Specified Volumes Calculated Volume	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
1126	58.9	6.55	468	71000	0.7	
1127	59.6	6.47	442	71000	1.4	
1128	59.5	6.47	501	71000	2.1	

Did well dewater? Yes No Gallons actually evacuated: 2.1

Sampling Date: 11/26/08 Sampling Time: 1130 Depth to Water: 3.25

Sample I.D.: MW-2 Laboratory: STL SPL Other: CRS Science

Analyzed for: TPH-G BTEX MTBE TPH-D Oxy's 1,2-DCA EDB Other: See CA

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxy's 1,2-DCA EDB 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 #: <u>08426512</u>	Site: <u>97605414</u>
Sampler: <u>GL</u>	Date: <u>11/26/08</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): <u>7.10</u>	Depth to Water (DTW): <u>2.74</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>3.29</u>	

Purge Method: Bailer
~~Disposable Bailer~~
 Positive Air Displacement
 Electric Submersible

Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method: Bailer
~~Disposable Bailer~~
 Extraction Port
 Dedicated Tubing
 Other: _____

<u>0.8</u> (Gals.) X <u>3</u> = <u>2.4</u> Gals.
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
<u>1112</u>	<u>56.7</u>	<u>6.71</u>	<u>457</u>	<u>>1000</u>	<u>0.8</u>	
<u>1113</u>	<u>58.4</u>	<u>6.54</u>	<u>451</u>	<u>>1000</u>	<u>1.6</u>	
<u>1114</u>	<u>59.0</u>	<u>6.49</u>	<u>441</u>	<u>>1000</u>	<u>2.4</u>	

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: <u>2.4</u>
Sampling Date: <u>11/26/08</u>	Sampling Time: <u>1115</u> Depth to Water: <u>2.50</u>
Sample I.D.: <u>MW-3</u>	Laboratory: STL SPL Other <u>GLG/Verde</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Oxy's 1,2-DCA EDB Other: <u>See LA</u>	
EB I.D. (if applicable): @ _____	Duplicate I.D. (if applicable):
Analyzed for: TPH-G BTEX MTBE TPH-D Oxy's 1,2-DCA EDB 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 #: <u>081126512</u>	Site: <u>97605414</u>
Sampler: <u>SL</u>	Date: <u>11/26/08</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): <u>12.86</u>	Depth to Water (DTW): <u>7.85</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>5.66</u>	

Purge Method: Bailer ~~Disposable Bailer~~ ☒ Positive Air Displacement ☐ Electric Submersible ☐ Other _____

Water: Peristaltic ☐ Extraction Pump ☐ Other _____

Sampling Method: Bailer ~~Disposable Bailer~~ ☒ Extraction Port ☐ Dedicated Tubing ☐ Other: _____

1.4 (Gals.) X 3 = 4.2 Gals.	Well Diameter Multiplier	Well Diameter Multiplier
1 Case Volume Specified Volumes Calculated Volume	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
1100	56.6	6.87	542	71000	1.4	
1102	59.6	6.91	535	71000	2.8	
1105	59.1	6.49	539	71000	4.2	

Did well dewater? Yes ☒ No ☐ Gallons actually evacuated: 4.2

Sampling Date: 11/26/08 Sampling Time: 1105 Depth to Water: 7.85

Sample I.D.: MW-4 Laboratory: STL SPL Other: GLG/one

Analyzed for: TPH-G BTEX MTBE TPH-D Oxy's 1,2-DCA EDB Other: See lab

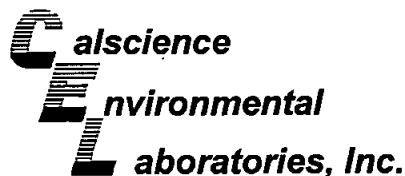
EB I.D. (if applicable): @ _____ Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxy's 1,2-DCA EDB 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

APPENDIX B

LABORATORY ANALYTICAL REPORT



December 11, 2008

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

Subject: **Calscience Work Order No.: 08-11-2529**
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 11/29/2008 and analyzed in accordance with the attached chain-of-custody.

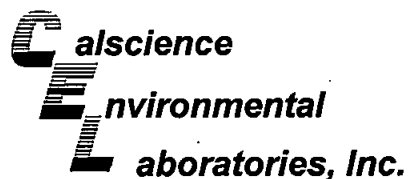
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows 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,

A handwritten signature in black ink, appearing to read "Jessie Kim".

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager



Analytical Report



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

Date Received: 11/29/08
Work Order No: 08-11-2529
Preparation: EPA 3020A Total
Method: EPA 6020

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	08-11-2529-1-D	11/26/08 11:50	Aqueous	ICP/MS A	12/01/08	12/02/08 22:54	081201L05

Parameter	Result	RL	DF	Qual	Units
Lead	0.0441	0.00100	1		mg/L

MW-2	08-11-2529-2-D	11/26/08 11:30	Aqueous	ICP/MS A	12/01/08	12/02/08 22:56	081201L05
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Parameter	Result	RL	DF	Qual	Units
Lead	0.0218	0.00100	1		mg/L

MW-3	08-11-2529-3-D	11/26/08 11:15	Aqueous	ICP/MS A	12/01/08	12/02/08 22:59	081201L05
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Parameter	Result	RL	DF	Qual	Units
Lead	0.0433	0.00100	1		mg/L

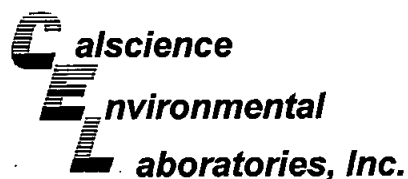
MW-4	08-11-2529-4-D	11/26/08 11:05	Aqueous	ICP/MS A	12/01/08	12/02/08 23:02	081201L05
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Parameter	Result	RL	DF	Qual	Units
Lead	0.0530	0.00100	1		mg/L

Method Blank	096-06-003-1,811	N/A	Aqueous	ICP/MS A	12/01/08	12/02/08 16:32	081201L05
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

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



Analytical Report



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

Date Received: 11/29/08
Work Order No: 08-11-2529
Preparation: EPA 5030B
Method: NWTPH-Gx

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

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	08-11-2529-1-C	11/26/08 11:50	Aqueous	GC 18	12/02/08	12/03/08 06:43	081202B02

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	75	38-134			

MW-2	08-11-2529-2-C	11/26/08 11:30	Aqueous	GC 18	12/02/08	12/03/08 08:23	081202B02
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	76	38-134			

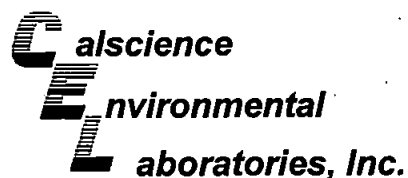
MW-3	08-11-2529-3-C	11/26/08 11:15	Aqueous	GC 18	12/02/08	12/03/08 08:56	081202B02
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	75	38-134			

MW-4	08-11-2529-4-C	11/26/08 11:05	Aqueous	GC 18	12/02/08	12/03/08 09:30	081202B02
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	75	38-134			

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



Analytical Report



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

Date Received: 11/29/08
Work Order No: 08-11-2529
Preparation: EPA 5030B
Method: NWTPH-Gx

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
Method Blank	099-12-743-64	N/A	Aqueous	GC 18	12/02/08	12/03/08 05:03	081202B02

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	75	38-134			

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



Analytical Report



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

Date Received: 11/29/08
Work Order No: 08-11-2529
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	08-11-2529-1-E	11/26/08 11:50	Aqueous	GC 50	12/02/08	12/03/08 14:48	081202B10

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	100	68-140							

MW-2	08-11-2529-2-E	11/26/08 11:30	Aqueous	GC 50	12/02/08	12/03/08 15:03	081202B10
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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	98	68-140							

MW-3	08-11-2529-3-E	11/26/08 11:15	Aqueous	GC 50	12/02/08	12/03/08 15:18	081202B10
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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	97	68-140							

MW-4	08-11-2529-4-E	11/26/08 11:05	Aqueous	GC 50	12/02/08	12/03/08 15:34	081202B10
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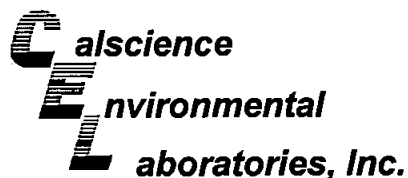
Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

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	102	68-140							

Method Blank	099-12-840-24	N/A	Aqueous	GC 50	12/02/08	12/03/08 14:00	081202B10
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Parameter	Result	RL	DF	Qual
TPH as Diesel Range	ND	100	1	
Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	117	68-140		

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



Analytical Report



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

Date Received: 11/29/08
Work Order No: 08-11-2529
Preparation: EPA 3510C
Method: EPA 8270C SIM NHPAH
Units: ug/L

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

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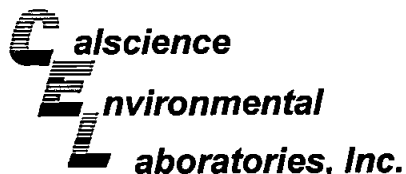
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	08-11-2529-1-G	11/26/08 11:50	Aqueous	GC/MS GG	12/01/08	12/04/08 18:33	081201L19

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	107	28-139			2-Fluorobiphenyl	69	33-144		
p-Terphenyl-d14	85	23-160							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	08-11-2529-2-G	11/26/08 11:30	Aqueous	GC/MS GG	12/01/08	12/04/08 19:19	081201L19

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	107	28-139			2-Fluorobiphenyl	79	33-144		
p-Terphenyl-d14	89	23-160							

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



Analytical Report



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

Date Received: 11/29/08
Work Order No: 08-11-2529
Preparation: EPA 3510C
Method: EPA 8270C SIM NWPAH
Units: ug/L

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

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	08-11-2529-3-G	11/26/08 11:15	Aqueous	GC/MS GG	12/01/08	12/04/08 20:04	081201L19

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	0.15	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	103	28-139			2-Fluorobiphenyl	85	33-144		
p-Terphenyl-d14	90	23-160							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	08-11-2529-4-G	11/26/08 11:05	Aqueous	GC/MS GG	12/01/08	12/04/08 20:49	081201L19

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	218	28-139		2	2-Fluorobiphenyl	139	33-144		
p-Terphenyl-d14	176	23-160		2					

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



Analytical Report



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

Date Received: 11/29/08
Work Order No: 08-11-2529
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	099-12-824-7	N/A	Aqueous	GC/MS GG	12/01/08	12/04/08 11:42	081201L19

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	53	28-139			2-Fluorobiphenyl	36	33-144		
p-Terphenyl-d14	38	23-160							

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



Analytical Report



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

Date Received: 11/29/08
Work Order No: 08-11-2529
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

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

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	08-11-2529-1-A	11/26/08 11:50	Aqueous	GC/MS JJ	12/02/08	12/03/08 08:26	081202L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	111	82-130			1,2-Dichloroethane-d4	115	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	95	70-118		

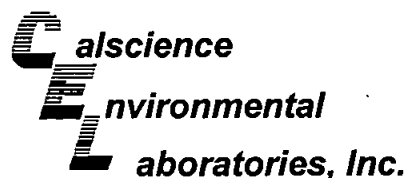
MW-2	08-11-2529-2-A	11/26/08 11:30	Aqueous	GC/MS JJ	12/02/08	12/03/08 08:56	081202L02
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	111	82-130			1,2-Dichloroethane-d4	113	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	95	70-118		

MW-3	08-11-2529-3-A	11/26/08 11:15	Aqueous	GC/MS JJ	12/02/08	12/03/08 09:25	081202L02
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	111	82-130			1,2-Dichloroethane-d4	114	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	95	70-118		

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



Analytical Report



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

Date Received: 11/29/08
Work Order No: 08-11-2529
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

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

Page 2 of 2

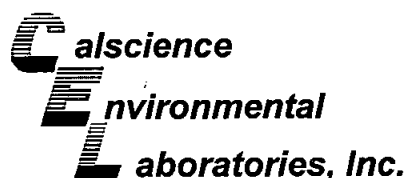
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	08-11-2529-4-A	11/26/08 11:05	Aqueous	GC/MS JJ	12/02/08	12/03/08 09:54	081202L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	109	82-130			1,2-Dichloroethane-d4	112	75-141		
Toluene-d8	100	83-113			1,4-Bromofluorobenzene	95	70-118		

Method Blank	099-10-006-27,683	N/A	Aqueous	GC/MS JJ	12/02/08	12/03/08 01:57	081202L02
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	109	82-130			1,2-Dichloroethane-d4	109	75-141		
Toluene-d8	100	83-113			1,4-Bromofluorobenzene	92	70-118		

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



Quality Control - Spike/Spike Duplicate



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

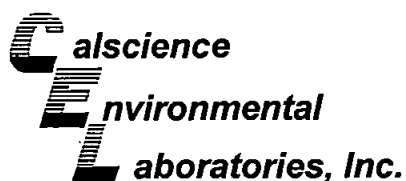
Date Received: 11/29/08
Work Order No: 08-11-2529
Preparation: EPA 3020A Total
Method: EPA 6020

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-11-2513-4	Aqueous	ICP/MS A	12/01/08	12/02/08	081201S05

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	99	100	79-121	1	0-10	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

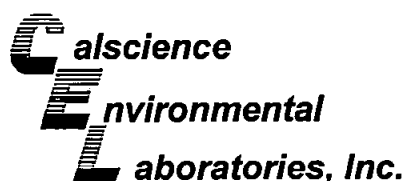
Date Received: 11/29/08
Work Order No: 08-11-2529
Preparation: EPA 5030B
Method: NWTPH-Gx

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-1	Aqueous	GC 18	12/02/08	12/03/08	081202502

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	94	93	68-122	1	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

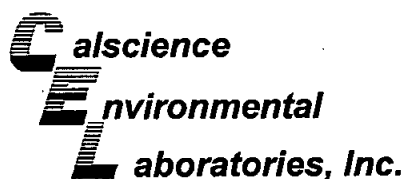
Date Received: 11/29/08
Work Order No: 08-11-2529
Preparation: EPA 5030B
Method: EPA 8260B

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-12-0052-1	Aqueous	GC/MS JJ	12/02/08	12/03/08	081202S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	89	89	88-118	0	0-7	
Carbon Tetrachloride	84	78	67-145	8	0-11	
Chlorobenzene	88	91	88-118	3	0-7	
1,2-Dibromoethane	94	87	70-130	8	0-30	
1,2-Dichlorobenzene	83	89	86-116	7	0-8	3
1,1-Dichloroethene	82	82	70-130	0	0-25	
Ethylbenzene	90	93	70-130	3	0-30	
Toluene	91	93	87-123	2	0-8	
Trichloroethene	87	86	79-127	2	0-10	
Vinyl Chloride	96	86	69-129	11	0-13	
Methyl-t-Butyl Ether (MTBE)	97	84	71-131	14	0-13	4
Tert-Butyl Alcohol (TBA)	74	90	36-168	20	0-45	
Diisopropyl Ether (DIPE)	102	103	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	99	72	72-126	32	0-12	4
Tert-Amyl-Methyl Ether (TAME)	98	69	72-126	35	0-12	4,3
Ethanol	80	122	53-149	42	0-31	4

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
Work Order No: 08-11-2529
Preparation: EPA 3020A Total
Method: EPA 6020

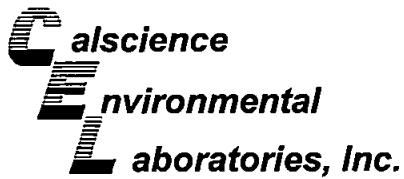
Project: 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-1,811	Aqueous	ICP/MS A	12/01/08	12/02/08	081201L05

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	98	98	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
Work Order No: 08-11-2529
Preparation: EPA 5030B
Method: NWTPH-Gx

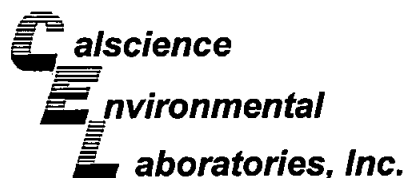
Project: 4902 25th Ave., NE. Seattle, WA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-743-64	Aqueous	GC 18	12/02/08	12/03/08	081202B02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	95	91	78-120	5	0-10	

RPD - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



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

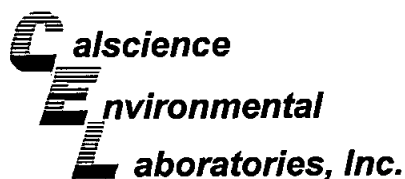
Date Received: N/A
Work Order No: 08-11-2529
Preparation: EPA 3510C
Method: NWTPH-Dx

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-840-24	Aqueous	GC 50	12/02/08	12/03/08	081202B10

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel Range	89	95	75-117	6	0-13	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

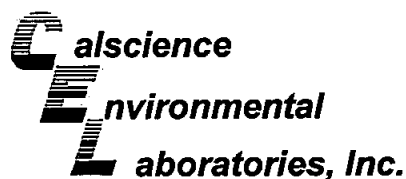
Date Received: N/A
Work Order No: 08-11-2529
Preparation: EPA 3510C
Method: EPA 8270C SIM NWPAH

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

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-824-7	Aqueous	GC/MS GG	12/01/08	12/04/08	081201L19

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acenaphthene	72	70	55-121	2	0-15	
Pyrene	74	70	45-129	5	0-15	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
Work Order No: 08-11-2529
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		
099-10-006-27,683	Aqueous	GC/MS JJ	12/02/08	12/02/08	081202L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	101	100	84-120	78-126	1	0-8	
Carbon Tetrachloride	104	101	63-147	49-161	3	0-10	
Chlorobenzene	102	100	89-119	84-124	1	0-7	
1,2-Dibromoethane	101	103	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	96	94	89-119	84-124	1	0-9	
1,1-Dichloroethene	106	101	77-125	69-133	5	0-16	
Ethylbenzene	109	107	80-120	73-127	1	0-20	
Toluene	104	104	83-125	76-132	1	0-9	
Trichloroethene	106	105	89-119	84-124	0	0-8	
Vinyl Chloride	123	116	63-135	51-147	6	0-13	
Methyl-t-Butyl Ether (MTBE)	101	101	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	107	108	46-154	28-172	1	0-32	
Diisopropyl Ether (DIPE)	110	109	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	101	101	74-122	66-130	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	99	76-124	68-132	2	0-10	
Ethanol	122	119	60-138	47-151	3	0-32	

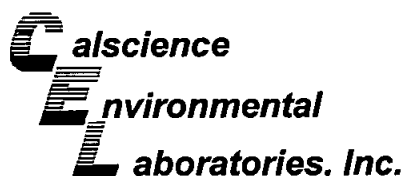
Total number of LCS compounds : 16

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



Glossary of Terms and Qualifiers



Work Order Number: 08-11-2529

<u>Qualifier</u>	<u>Definition</u>
*	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.

A handwritten signature in black ink, appearing to be 'M. J. ...'.

LAB (LOCATION)

☒ AUSCIENCE ()
☒ SPL Houston ()
☐ XERO ()
☐ TEST AMERICA ()
☐ OTHER ()



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

☒ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SUBCM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name:

Carol Compagna

PO #

INCIDENT # (ENV SERVICES)

9 7 6 0 5 4 1 4

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 11/26/08

PAGE: 1 of 1

SAMPLING COMPANY

Blaine Tech Services

ADDRESS

1680 Rogers Avenues, San Jose, Ca

PROJECT CONTRACT (Priority or PDF Report to)

LOG CODE

Eric Morso

TELEPHONE

916-925-2913x102

FAX

916-925-2891

E-MAIL

emorse@blainetech.com

TURNAROUND TIME (CALENDAR DAYS):

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

SPECIAL INSTRUCTIONS OR NOTES:

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

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

REQUESTED ANALYSIS

TEMPERATURE ON RECEIPT °C

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE						NO. OF CONT.	NWTPH-Gx	NWTPH-Dx	BTEX (9280)	S Oxygenates, DIPE, TAME	EDB, EDC (6)	Total Lead	PCBs (8082)	PAHs (8070)	VOCs Full (11)	Pest (8080)	NWTPH-VPH	NWTPH-EPI	n-Hexane (9)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Requested by: (Signature)

Received by: (Signature)

Dannyle CCL

Date:

Date:

Time:

Time:

Requested by: (Signature)

Fedex 866863765730

Requested by: (Signature)

866863765720

Received by: (Signature)

Received by: (Signature)

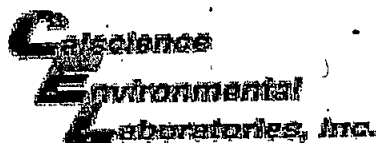
Date:

Date:

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Time:

05/2/05 Revision



WORK ORDER #: 08-11-2529

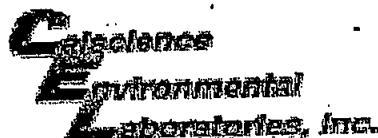
SAMPLE RECEIPT FORMCooler 1 of 2CLIENT: Blaine Tech.DATE: 11/29/08**TEMPERATURE:** (Criteria: 0.0 °C – 6.0 °C, not frozen)Temperature 3.4 °C - 0.2 °C (CF) = 3.2 °C ☒ Blank ☐ Sample☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).☐ Sample(s) outside temperature criteria but received 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 OnlyInitial: DL**CUSTODY SEALS INTACT:**☐ Cooler ☐ _____ ☐ No (Not Intact) ☒ Not Present ☐ N/AInitial: DL☐ Sample ☐ _____ ☐ No (Not Intact) ☒ Not PresentInitial: WSC**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	☒	☐	☐
COC document(s) received complete.....	☒	☐	☐
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 sample label(s).....	☒	☐	☐
Volatile analysis container(s) free of headspace.....	☒	☐	☐
Tedlar bag(s) free of condensation.....	☐	☐	☒

CONTAINER TYPE:Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve ☐ EnCores® ☐ TerraCores® ☐ _____Water: ☐ VOA ☒ VOA³h ☐ VOAna₂ ☐ 125AGB ☐ 125AGBh ☐ 125AGBpo₄ ☒ 1AGB² ☐ 1AGBna₂☐ 1AGBs ☒ 500AGB² ☐ 500AGBs ☐ 250CGB ☐ 250CGBs ☐ 1PB ☐ 500PB ☐ 500PBna ☐ 250PB☒ 250PBn ☐ 125PB ☐ 125PBznna ☐ 100PBsterile ☐ 100PBna₂ ☐ _____ ☐ _____ ☐ _____Air: ☐ Tedlar® ☐ Summa® ☐ _____Checked/Labeled by: WSC

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: DLPreservative: h:HCL n:HNO₃ na₂:Na₂S₂O₃ na:NaOH po₄:H₃PO₄ s:H₂SO₄ znna:ZnAc₂+NaOHScanned by: WSC



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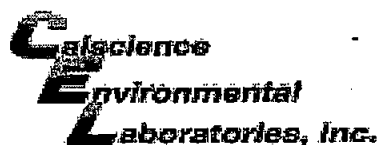
SAMPLE RECEIPT FORMCooler 2 of 2CLIENT: Blaine Tech.DATE: 11/29/08**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen)Temperature 3.8 °C - 0.2°C (CF) = 3.6 °C ☒ Blank ☐ Sample☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).☐ Sample(s) outside temperature criteria but received 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 OnlyInitial: DL**CUSTODY SEALS INTACT:**☐ Cooler ☐ _____ ☐ No (Not Intact) ☒ Not Present ☐ N/AInitial: DL☐ Sample ☐ _____ ☐ No (Not Intact) ☒ Not PresentInitial: hsc**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	☒	☐	☐
COC document(s) received complete.....	☒	☐	☐
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 sample label(s).....	☒	☐	☐
Volatile analysis container(s) free of headspace.....	☒	☐	☐
Tedlar bag(s) free of condensation.....	☐	☐	☒

CONTAINER TYPE:Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve ☐ EnCores® ☐ TerraCores® ☐ _____Water: ☐ VOA ☒ VOA³h ☐ VOAna₂ ☐ 125AGB ☐ 125AGBh ☐ 125AGBpo₄ ☒ 1AGB ☐ 1AGBna₂☐ 1AGBs ☒ 500AGB ☐ 500AGBs ☐ 250CGB ☐ 250CGBs ☐ 1PB ☐ 500PB ☐ 500PBna ☐ 250PB☒ 250PBn ☐ 125PB ☐ 125PBznna ☐ 100PBsterile ☐ 100PBna₂ ☐ _____ ☐ _____ ☐ _____Air: ☐ Tedlar® ☐ Summa® ☐ _____Checked/Labeled by: hsc

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: DLPreservative: h:HCL n:HNO₃ na₂:Na₂S₂O₃ na:NaOH po₄:H₃PO₄ s:H₂SO₄ znna:ZnAc₂+NaOHScanned by: hsc



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SAMPLE ANOMALY FORM**CHAIN OF CUSTODY (COC):**

- ☐ Not relinquished by client – no signature
☐ No date/time relinquished
☐ COC not received with samples – notify PM
☐ Incomplete information regarding samples, tests, etc.

Comments:

SAMPLES - CONTAINERS & LABELS:

- ☐ Samples NOT RECEIVED but listed on COC
☐ Samples received but NOT LISTED on COC
☐ Holding time expired – list sample ID(s) and test
☐ Insufficient quantities for analysis – list test
☐ Improper container(s) used – list test
☐ No preservative noted on label – list test and notify lab
☐ Sample labels illegible – note test/container type
☐ Sample labels do not match COC – Note in comments
 - ☐ Sample ID
 - ☐ Date and Time Collected
 - ☐ Project Information
 - ☐ # of containers☒ Sample containers compromised – Note in comments
 - ☐ Leaking
 - ☒ Broken
 - ☐ Without Labels☐ Other: _____

Comments:

cf) Received 1 L. Amber broken.**HEADSPACE – Containers with Bubble > 6mm or ¼ inch:**

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of RSK or CO ₂ or DO or Organic Lead Received

Comments: _____

Initial / Date W.S.C. 11-29-08