

GROUNDWATER MONITORING REPORT SECOND QUARTER 2005

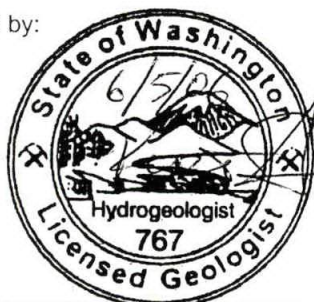
Former Texaco Service Station
13138 Interurban Avenue South
Tukwila, Washington

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TEXACO 63-232-0395
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Tukwila
UST # 4454

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Report date: June 5, 2006
GeoEngineers file no.: 9876-097-00
SAP Number : 120598
Client: Carol Campagna, Shell Oil Products US
20945 S. Wilmington Ave. Carson, CA 90810
GeoEngineers project manager: Tony N. Orme, PE
Sample date: April 27, 2006
Wells gauged: AGW-1, AGW-2, AGW-3 and AGW-4
Free product (well/thickness): None
Groundwater flow direction: South
Direction similar to previous events?: Yes
Wells sampled: AGW-1, AGW-2, AGW-3 and AGW-4
Purge/sample methods: No purge, sample by hand bailing techniques
Chemical testing: NWTPH-G and BETX by 8021B
Results similar to previous events?: Yes
Monitoring event frequency: Semiannually
Notes: Detected concentrations of all analytes in all sampled wells were similar to historical detected concentrations.

Prepared by:



Kurt S. Anderson

Kurt S. Anderson, LG, LHG
Senior Principal

Attachments:

Table 1: Summary of Groundwater Monitoring Data
Figure 1: Vicinity Map
Figure 2: Site Plan and Groundwater Flow
Chemical Analytical Data
Historical Groundwater Data
Wellhead Inspection Checklist

Distribution:

Client (one copy)

John Bails

Washington State Department of Ecology (Northwest Regional Office)

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8/8/06

TABLE 1
SUMMARY OF GROUNDWATER MONITORING DATA
BETX AND GASOLINE-RANGE HYDROCARBONS
13138 INTERURBAN AVENUE SOUTH
TUKWILA, WASHINGTON

Well Number	Date	Depth to Groundwater (feet)	Groundwater Elevation (feet)	(µg/l)				Gasoline-range Hydrocarbons (mg/l)	MTBE (µg/l)
				B	E	T	X		
AGW-1	04/12/01	11.81	84.57	55.3	<0.500	<0.500	2.08	0.120	<1.00
	10/09/01	13.23	83.15	1.91	<0.500	<0.500	6.34	0.0960	<0.500
	05/07/02	11.63	84.75	6.16	0.706	<0.500	15.1	0.116	--
	10/11/02	12.87	83.51	<1.0	<1.0	<1.0	7.6	<0.25	--
	04/24/03	11.41	84.97	11	<1	<1	17.3	<0.25	<1
	10/20/03	12.38	84.00	<1	<1	<1	4.7	<0.25	--
	04/13/04	12.14	84.24	<5	<5	<5	<5	<1.2 X	--
	11/23/04	13.19	83.19	<5	<5	<5	<5	<1.2 X	--
	05/26/05	12.36	84.02	<1	<1	<1	5.4	0.32 ✓	--
	10/26/05	12.63	83.75	<1	<1	<1	3	0.2 ✓	--
	04/27/06	11.97	84.41	0.526	<0.5	<0.5	3.7	0.13 ✓	--
AGW-2	04/12/01	10.92	84.55	--	--	--	--	--	--
	10/09/01	12.35	83.12	--	--	--	--	--	--
	05/07/02	--	--	--	--	--	--	--	--
	10/11/02	--	--	--	--	--	--	--	--
	04/24/03	10.47	85.00	<1	<1	<1	<1	<0.25	<1
	10/20/03	11.56	83.91	<1	<1	<1	<1	<0.25	--
	04/13/04	11.22	84.29	<5	<5	<5	<5	<1.2	--
	11/23/04	12.24	83.23	<5	<5	<5	<5	<1.2	--
	05/26/05	11.42	84.05	<1	<1	<1	<1	0.053	--
	10/26/05	11.72	83.75	<1	<1	<1	<1	<0.05	--
	04/27/06	11.04	84.43	<0.5	<0.5	<0.5	<1	<0.05	--
AGW-3	04/12/01	11.72	84.67	0.978	<0.500	0.752	3.58	0.0839	<1.00
	10/09/01	13.19	83.20	1.60	<0.500	<0.500	2.16	0.242	--
	05/07/02	11.66	84.73	3.37	<0.500	0.651	4.28	0.258	--
	10/11/02	12.82	83.57	<1.0	<1.0	<1.0	1	<0.25	--
	04/24/03	11.44	84.95	8.1	<1	<1	4.7	<0.25	<1
	10/20/03	12.32	84.07	<1	<1	<1	<1	<0.25	--
	04/13/04	12.10	84.29	<5	<5	<5	<5	<1.2	--
	11/23/04	13.22	83.17	<1	<1	<1	<1	<0.25	--
	05/26/05	12.44	83.95	<1	<1	<1	2.8	0.34	--
	10/26/05	12.56	88.83	<1	<1	<1	2.2	0.34	--
	04/27/06	11.99	84.40	1.16	<0.5	<0.5	2.62	0.255	--
AGW-4	04/12/01	13.00	84.61	4,090	1,070	634	5,650	28.1	<1.00
	10/09/01	14.48	83.13	9,570	3,520	4,200	20,900	100	<0.500
	05/07/02	12.87	84.74	8,010	2,370	1,500	12,600	70.6	--
	10/11/02	14.16	83.45	9,800	2,300	1,900	11,900	76	--
	04/24/03	12.63	84.98	8,800	1,800	1,200	12,200	70	120
	10/20/03	13.67	83.94	13,000	2,200	1,000	10,300	60	--
	04/13/04	13.36	84.25	11,000	2,500	1,300	12,200	77	--
	11/23/04	14.42	83.19	13,000	2,100	810	7,400	37	--
	05/26/05	13.64	83.97	9,700	2,200	710	9,500	62	--
	10/26/05	13.85	83.76	13,000	2,300	1,000	8,400	53	--
	04/27/06	13.22	84.39	10,500 X	2,400	1,660	10,100	81.9 ✓	--
MTCA Method A Cleanup Level				5.0	700	1,000	1,000	0.8	20

Notes:

Well locations are shown in Figure 2.

Depth to water from top of well casing.

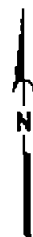
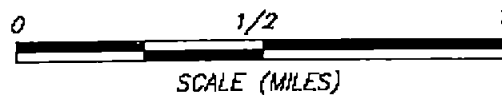
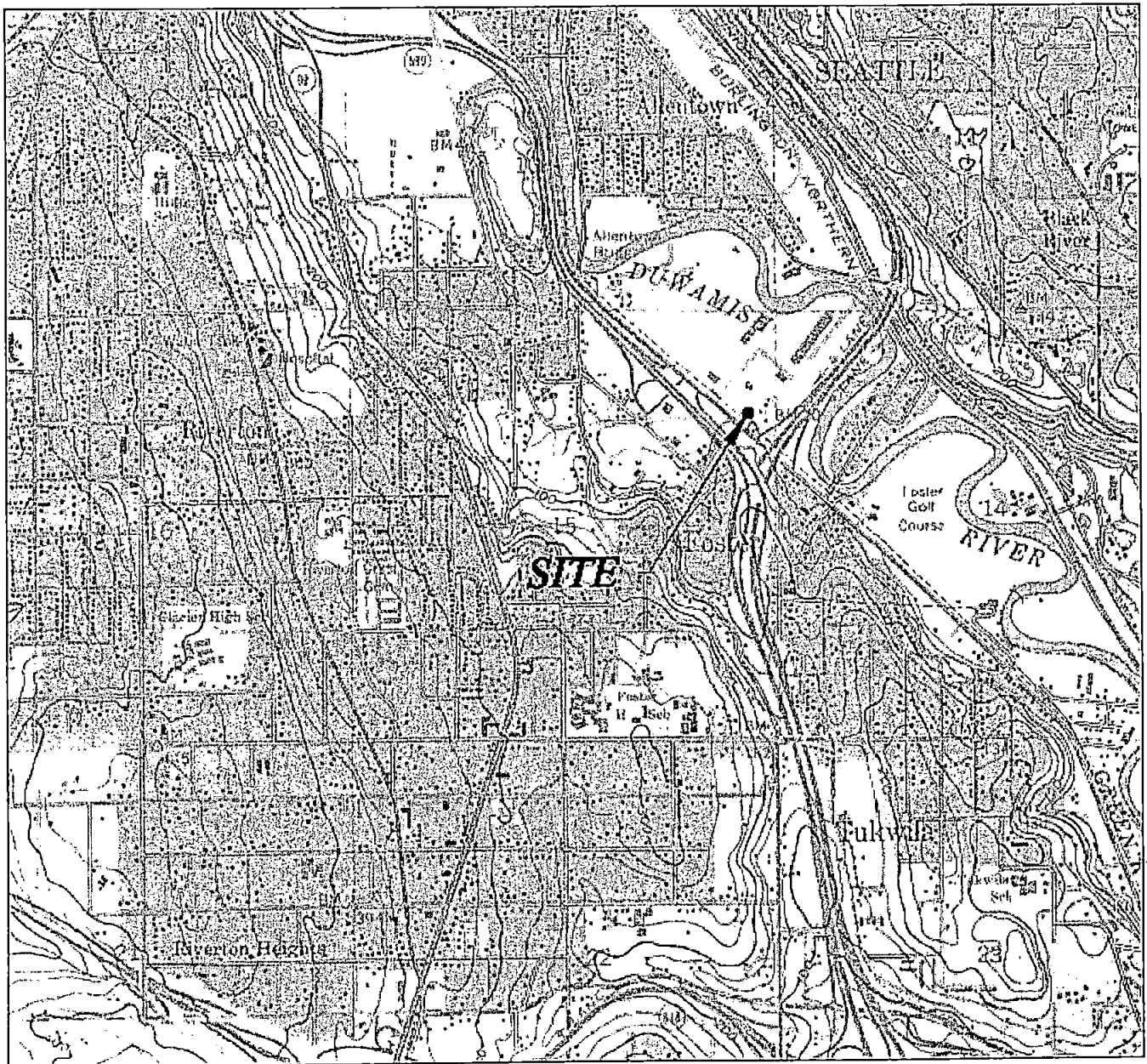
B = benzene, E = ethylbenzene, T = toluene, X = xylenes, MTBE = methyl tert-butyl ether. Analyzed using EPA Method 8021B. Gasoline-range hydrocarbons analyzed using NWTPH-G_x or WTPH-G.

µg/l = micrograms per liter; mg/l = milligrams per liter; ppm = parts per million

NA = Not available.

MTCA = Model Toxics Control Act

REDM:\P\9876097\00\CAD\987609700VM.DWG TNO:HLA 08/15/02



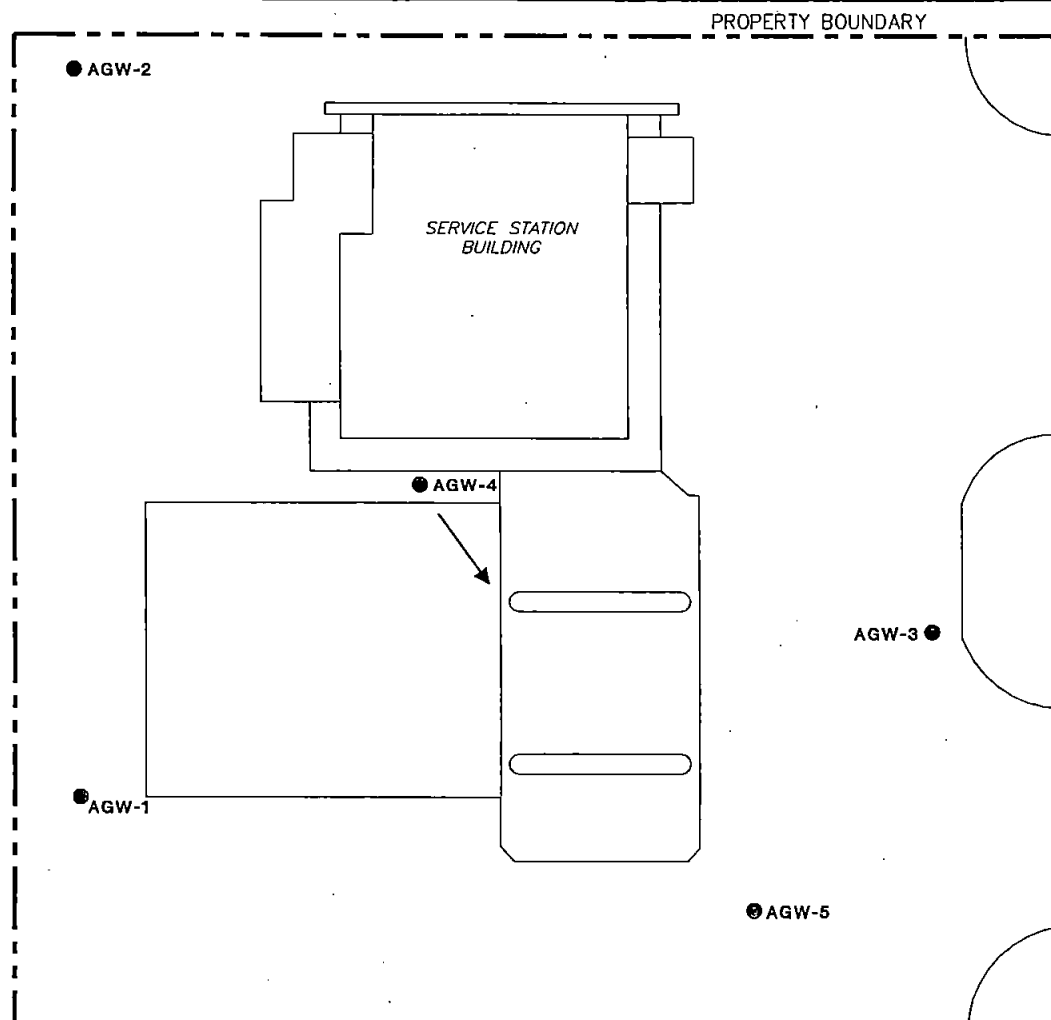
TEXACO STATION SAP NO. 120598
13138 INTERURBAN AVENUE SOUTH
TUKWILA, WASHINGTON

Reference: USGS 7.5' topographic quadrangle map "Des Moines, Wash." 1978.

GEOENGINEERS 

VICINITY MAP

FIGURE 1

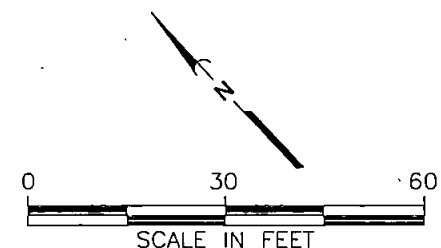


EXPLANATION:

- MONITORING WELL
- ← INFERRED GROUNDWATER FLOW DIRECTION

- Notes: 1. The locations of all features shown are approximate.
2. This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure. The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document. The master hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.

Reference: Drawing entitled "Groundwater Elevation Contour and Analytical Results (5/7/02), Texaco Station SAP#120598" dated 06/06/02, by Secor.



May 12, 2006

Tony Orme
Geo Engineers - Redmond
8410 154th Ave NE
Redmond, WA/USA 98052

RE: Shell #120598

Enclosed are the results of analyses for samples received by the laboratory on 05/04/06 17:05.
The following list is a summary of the Work Orders contained in this report, generated on 05/12/06 09:44.

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

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPE0148	Shell #120598	9876-097-01

TestAmerica - Seattle, WA

Jeff Gerdes

Jeff Gerdes, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Geo Engineers - Redmond

8410 154th Ave NE
Redmond, WA/USA 98052

Project Name: **Shell #120598**

Project Number: **9876-097-01**

Project Manager: **Tony Orme**

Report Created:

05/12/06 09:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AGW-1	BPE0148-01	Water	04/27/06 15:30	05/04/06 17:05
AGW-2	BPE0148-02	Water	04/27/06 16:00	05/04/06 17:05
AGW-3	BPE0148-03	Water	04/27/06 16:30	05/04/06 17:05
AGW-4	BPE0148-04	Water	04/27/06 16:15	05/04/06 17:05

TestAmerica - Seattle, WA

Jeff Gerdes

Jeff Gerdes, Project Manager

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Geo Engineers - Redmond	Project Name: Shell #120598	Report Created:
8410 154th Ave NE	Project Number: 9876-097-01	05/12/06 09:44
Redmond, WA/USA 98052	Project Manager: Tony Orme	

Volatile Petroleum Products by NWTPH-Gx

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPE0148-01 (AGW-1)		Water						Sampled: 04/27/06 15:30		
Gasoline Range Hydrocarbons	NWTPH-Gx	130	---	50.0	ug/l	1x	6E06019	05/06/06 15:18	05/06/06 23:29	
Surrogate(s): 4-BFB (FID)		90.0%				58 - 144 %	"		"	
BPE0148-02 (AGW-2)		Water						Sampled: 04/27/06 16:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	6E06019	05/06/06 15:18	05/06/06 20:14	
Surrogate(s): 4-BFB (FID)		91.3%				58 - 144 %	"		"	
BPE0148-03 (AGW-3)		Water						Sampled: 04/27/06 16:30		
Gasoline Range Hydrocarbons	NWTPH-Gx	255	---	50.0	ug/l	1x	6E06019	05/06/06 15:18	05/07/06 11:18	
Surrogate(s): 4-BFB (FID)		90.7%				58 - 144 %	"		"	
BPE0148-04 (AGW-4)		Water						Sampled: 04/27/06 16:15		
Gasoline Range Hydrocarbons	NWTPH-Gx	81900	---	2500	ug/l	50x	6E06019	05/06/06 15:18	05/06/06 21:56	
Surrogate(s): 4-BFB (FID)		98.7%				58 - 144 %	1x		"	

TestAmerica - Seattle, WA

Jeff Gerdes

Jeff Gerdes, Project Manager

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Geo Engineers - Redmond

8410 154th Ave NE
 Redmond, WA/USA 98052

Project Name: **Shell #120598**

Project Number: 9876-097-01

Project Manager: Tony Orme

Report Created:

05/12/06 09:44

BTEX by EPA Method 8021B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL ^a	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPE0148-01 (AGW-1)		Water		Sampled: 04/27/06 15:30						
Benzene	EPA 8021B	0.526	---	0.500	ug/l	1x	6E06019	05/06/06 15:18	05/06/06 23:29	
Toluene	"	ND	---	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Xylenes (total)	"	3.70	---	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		99.0%		68 - 140 % "						
BPE0148-02 (AGW-2)		Water		Sampled: 04/27/06 16:00						
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	6E06019	05/06/06 15:18	05/06/06 20:14	
Toluene	"	ND	---	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	---	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		101%		68 - 140 % "						
BPE0148-03 (AGW-3)		Water		Sampled: 04/27/06 16:30						
Benzene	EPA 8021B	1.16	---	0.500	ug/l	1x	6E06019	05/06/06 15:18	05/07/06 11:18	
Toluene	"	ND	---	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Xylenes (total)	"	2.62	---	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		97.7%		68 - 140 % "						
BPE0148-04 (AGW-4)		Water		Sampled: 04/27/06 16:15						
Toluene	EPA 8021B	1660	---	25.0	ug/l	50x	6E06019	05/06/06 15:18	05/06/06 21:56	
Ethylbenzene	"	2400	---	25.0	"	"	"	"	"	
Xylenes (total)	"	10100	---	50.0	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		102%		68 - 140 % 1x						
BPE0148-04RE1 (AGW-4)		Water		Sampled: 04/27/06 16:15						
Benzene	EPA 8021B	10500	---	100	ug/l	200x	6E06019	05/06/06 15:18	05/07/06 06:09	
Surrogate(s): 4-BFB (PID)		99.2%		68 - 140 % 1x						

TestAmerica - Seattle, WA

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Jeff Gerdes

Jeff Gerdes, Project Manager



Geo Engineers - Redmond	Project Name: Shell #120598	Report Created:
8410 154th Ave NE	Project Number: 9876-097-01	05/12/06 09:44
Redmond, WA/USA 98052	Project Manager: Tony Orme	

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6E06019	Water Preparation Method: EPA 5030B (P/T)
--------------------------	--

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (6E06019-BLK1) Extracted: 05/06/06 15:18

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	--	50.0	ug/l	1x	--	--	--	--	--	--	05/06/06 18:58	
Surrogate(s): 4-BFB (FID)		Recovery: 87.8%		Limits: 58-144%										05/06/06 18:58

LCS (6E06019-BS1) Extracted: 05/06/06 15:18

Gasoline Range Hydrocarbons	NWTPH-Gx	989	---	50.0	ug/l	1x	--	1000	98.9%	(80-120)	--	--	05/06/06 19:29	
Surrogate(s): 4-BFB (FID)		Recovery: 96.8%		Limits: 58-144%										05/06/06 19:29

Duplicate (6E06019-DUP1) QC Source: BPE0161-01 Extracted: 05/06/06 15:18

Gasoline Range Hydrocarbons	NWTPH-Gx	190	---	50.0	ug/l	1x	196	--	--	--	3.11% (25)		05/06/06 21:25	
Surrogate(s): 4-BFB (FID)		Recovery: 89.3%		Limits: 58-144%										05/06/06 21:25

Duplicate (6E06019-DUP2) QC Source: BPE0147-01 Extracted: 05/06/06 15:18

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	ND	--	--	--	32.5% (25)		05/07/06 06:40	RP-4
Surrogate(s): 4-BFB (FID)		Recovery: 90.0%		Limits: 58-144%										05/07/06 06:40

Matrix Spike (6E06019-MS1) QC Source: BPE0161-01 Extracted: 05/06/06 15:18

Gasoline Range Hydrocarbons	NWTPH-Gx	1170	---	50.0	ug/l	1x	196	1000	97.4%	(75-131)	--	--	05/06/06 23:59	
Surrogate(s): 4-BFB (FID)		Recovery: 95.8%		Limits: 58-144%										05/06/06 23:59

TestAmerica - Seattle, WA

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Jeff Gerdes

Jeff Gerdes, Project Manager



Geo Engineers - Redmond

8410 154th Ave NE
 Redmond, WA/USA 98052

Project Name: Shell #120598

Project Number: 9876-097-01

Project Manager: Tony Orme

Report Created:

05/12/06 09:44

BTEX by EPA Method 8021B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6E06019

Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (6E06019-BLK1)

Extracted: 05/06/06 15:18

Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	05/06/06 18:58	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	

Surrogate(s): 4-BFB (PID)

Recovery: 100%

Limits: 68-140%

05/06/06 18:58

LCS (6E06019-BS1)

Extracted: 05/06/06 15:18

Benzene	EPA 8021B	11.1	---	0.500	ug/l	1x	--	9.65	115%	(80-120)	--	--	05/06/06 19:29	
Toluene	"	70.8	---	0.500	"	"	--	83.5	84.8%	"	--	--	"	
Ethylbenzene	"	14.8	---	0.500	"	"	--	16.7	88.6%	"	--	--	"	
Xylenes (total)	"	81.6	---	1.00	"	"	--	96.3	84.7%	"	--	--	"	

Surrogate(s): 4-BFB (PID)

Recovery: 92.7%

Limits: 68-140%

05/06/06 19:29

Duplicate (6E06019-DUP1)

QC Source: BPE0161-01

Extracted: 05/06/06 15:18

Benzene	EPA 8021B	7.42	---	0.500	ug/l	1x	7.42	--	--	--	0.00%	(25)	05/06/06 21:25	
Toluene	"	1.80	---	0.500	"	"	1.81	--	--	--	0.554%	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	0.304%	"	"	
Xylenes (total)	"	11.1	---	1.00	"	"	11.1	--	--	--	0.00%	"	"	

Surrogate(s): 4-BFB (PID)

Recovery: 98.3%

Limits: 68-140%

05/06/06 21:25

Duplicate (6E06019-DUP2)

QC Source: BPE0147-01

Extracted: 05/06/06 15:18

Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	ND	--	--	--	24.6%	(25)	05/07/06 06:40	
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--	56.0%	"	"	RP-4

Surrogate(s): 4-BFB (PID)

Recovery: 100%

Limits: 68-140%

05/07/06 06:40

Matrix Spike (6E06019-MS1)

QC Source: BPE0161-01

Extracted: 05/06/06 15:18

Benzene	EPA 8021B	16.7	---	0.500	ug/l	1x	7.42	9.65	96.2%	(46-130)	--	--	05/06/06 23:59	
Toluene	"	75.5	---	0.500	"	"	1.81	83.5	88.3%	(60-124)	--	--	"	
Ethylbenzene	"	15.8	---	0.500	"	"	0.328	16.7	92.6%	(56-141)	--	--	"	
Xylenes (total)	"	93.2	---	1.00	"	"	11.1	96.3	85.3%	(66-132)	--	--	"	

Surrogate(s): 4-BFB (PID)

Recovery: 92.8%

Limits: 68-140%

05/06/06 23:59

TestAmerica - Seattle, WA

Jeff Gerdes

Jeff Gerdes, Project Manager

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Geo Engineers - Redmond

8410 154th Ave NE
Redmond, WA/USA 98052

Project Name: **Shell #120598**

Project Number: **9876-097-01**

Project Manager: **Tony Orme**

Report Created:

05/12/06 09:44

Notes and Definitions

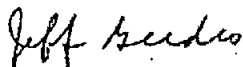
Report Specific Notes:

- RP-4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA



Jeff Gerdes, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Shell Oil Products US Chain Of Custody Record

BPED 148

- ☒ 11720 North Creek Pkwy #400, Bothell, WA
- ☐ 9405 S. W. Nimbus Ave., Beaverton, OR 97008
- ☐ East 11115 Montgomery, Suite B, Spokane, WA 99206

SOP US Project Manager to be involved:

- ☐ SCIENCE & ENGINEERING
- ☐ TECHNICAL SERVICES
- ☐ CRMT HOUSTON
- ☐ BILL CONSULTANT

NAME OF PM TO BILL: CAROL CAMPAGNA

NAME OF TS TO BILL:

INCIDENT # 194 EONRY

BP 的 CRM 来自 CRM

DATE:

PAGE: 1 of 1

CONSULTANT COMPANY:

CONSULTANT COMPANY:
GEOENGINEERS

ADDRESS: 8410 154TH AVE. N.E.

CITY: REDMOND, WA. 98052

TELEPHONE:	FAX:
425-861-6000	425-861-6050

TURNAROUND TIME (CALENDAR DAYS)	
---------------------------------	--

☒ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES :

SITE ADDRESS (Street and City):

13138 INTERURBAN AVE. S., TUKWILA, WA.

PROJECT CONTACT (Report to):

TONY ORME

CONSULTANT PROJECT NO.	
------------------------	--

9876-097-01

SAMPLER MATERIALS PROVIDED

BRIAN ANDERSON

Discussion

REQUESTED ANALYSIS If more than one method is listed, circle one

**Container FID Readings
or Laboratory Notes**

[illegible]

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client

05/1/01 Revision

Historical Groundwater Data: Cumulative Summary of Groundwater Elevations
Texaco-Branded Station SAP No. 120598
13138 Interurban Avenue South, Tukwila, Washington

Well Number/ TOC Elevation	Date of Measurement	DTW (feet)	DTFP (feet)	FPT (feet)	SWL (feet)	Change in SWL (feet)
AGW-1 96.38	4/23/1997	9.63	0.00	0.00	86.75	--
	7/14/1997	12.20	0.00	0.00	84.18	-2.57
	10/22/1997	12.31	0.00	0.00	84.07	-0.11
	1/22/1998	10.30	0.00	0.00	86.08	2.01
	4/9/1998	12.04	0.00	0.00	84.34	-1.74
	7/14/1998	12.51	0.00	0.00	83.87	-0.47
	5/11/1999	13.17	0.00	0.00	83.21	-0.66
	11/3/1999	14.49	0.00	0.00	81.89	-1.32
	5/13/2000	11.90	0.00	0.00	84.48	2.59
	10/21/2000	12.55	0.00	0.00	83.83	-0.65
	4/12/2001	11.81	0.00	0.00	84.57	0.74
	10/9/2001	13.23	0.00	0.00	83.15	-1.42
	5/7/2002	11.63	0.00	0.00	84.75	1.60
AGW-2 95.47	4/23/1997	9.76	0.00	0.00	85.71	--
	7/14/1997	11.30	0.00	0.00	84.17	-1.54
	10/22/1997	11.36	0.00	0.00	84.11	-0.06
	1/22/1998	9.40	0.00	0.00	86.07	1.96
	4/9/1998	11.18	0.00	0.00	84.29	-1.78
	7/14/1998	11.67	0.00	0.00	83.80	-0.49
	5/11/1999	12.25	0.00	0.00	83.22	-0.58
	11/3/1999	13.53	0.00	0.00	81.94	-1.28
	5/13/2000	11.03	0.00	0.00	84.44	2.50
	10/21/2000	11.64	0.00	0.00	83.83	-0.61
	4/12/2001	10.92	0.00	0.00	84.55	0.72
	10/9/2001	12.35	0.00	0.00	83.12	-1.43
	5/7/2002	--	--	--	--	--
AGW-3 96.39	4/23/1997	9.50	0.00	0.00	86.89	--
	7/14/1997	12.28	0.00	0.00	84.11	-2.78
	10/22/1997	12.35	0.00	0.00	84.04	-0.07
	1/22/1998	10.25	0.00	0.00	86.14	2.10
	4/9/1998	12.02	0.00	0.00	84.37	-1.77
	7/14/1998	12.49	0.00	0.00	83.90	-0.47
	5/11/1999	13.18	0.00	0.00	83.21	-0.69
	11/3/1999	14.60	0.00	0.00	81.79	-1.42
	5/13/2000	9.01	0.00	0.00	87.38	5.59
	10/21/2000	12.51	0.00	0.00	83.88	-3.50
	4/12/2001	11.72	0.00	0.00	84.67	0.79
	10/9/2001	13.19	0.00	0.00	83.20	-1.47
	5/7/2002	11.66	0.00	0.00	84.73	1.53

Historical Groundwater Data: Cumulative Summary of Groundwater Elevations
Texaco-Branded Station SAP No. 120598
13138 Interurban Avenue South, Tukwila, Washington

Well Number/ TOC Elevation	Date of Measurement	DTW (feet)	DTFP (feet)	FPT (feet)	SWL (feet)	Change in SWL (feet)
AGW-4 97.61	4/23/1997	10.95	0.00	0.00	86.66	--
	7/14/1997	13.70	0.00	0.00	83.91	-2.75
	10/22/1997	13.43	0.00	0.00	84.18	0.27
	1/22/1998	11.53	0.00	0.00	86.08	1.90
	4/9/1998	13.58	0.00	0.00	84.03	-2.05
	7/14/1998	14.02	0.00	0.00	83.59	-0.44
	5/11/1999	14.46	0.00	0.00	83.15	-0.44
	11/3/1999	15.88	0.00	0.00	81.73	-1.42
	5/13/2000	13.14	0.00	0.00	84.47	2.74
	10/21/2000	13.81	0.00	0.00	83.80	-0.67
	4/12/2001	13.00	0.00	0.00	84.61	0.81
	10/9/2001	14.48	0.00	0.00	83.13	-1.48
	5/7/2002	12.87	0.00	0.00	84.74	1.61
AGW-5 97.35	4/23/1997	10.52	0.00	0.00	86.83	--
	7/14/1997	13.25	0.00	0.00	84.10	-2.73
	10/22/1997	13.35	0.00	0.00	84.00	-0.10
	1/22/1998	11.20	0.00	0.00	86.15	2.15
	4/9/1998	13.00	0.00	0.00	84.35	-1.80
	7/14/1998	13.48	0.00	0.00	83.87	-0.48
	5/11/1999	14.19	0.00	0.00	83.16	-0.71
	11/3/1999	15.56	0.00	0.00	81.79	-1.37
	5/13/2000	12.87	0.00	0.00	84.48	2.69
	10/21/2000	13.45	0.00	0.00	83.90	-0.58
	4/12/2001	12.71	0.00	0.00	84.64	0.74
	10/9/2001	14.17	0.00	0.00	83.18	-1.46
	5/7/2002	12.62	0.00	0.00	84.73	1.55

TOC = Top of casing.

DTW = Depth to water.

DTFP = Depth to free product

FPT = Free product thickness.

SWL = Static water level.

-- = Not monitored.

Historical Groundwater Data: Cumulative Summary of Groundwater Sample Analytical Results
Texaco-Branded Station SAP No. 120598
13138 Interurban Avenue South, Tukwila, Washington

Well Number	Sample Date	BTEX (µg/L)				TPH-G (µg/L)	MTBE (µg/L)
		Benzene	Toluene	Ethyl-benzene	Total Xylenes		
AGW-1	4/23/1997	728	113	0.65	47.5	439	--
	7/14/1997	425	53	ND	44.6	960	--
	10/22/1997	320	31.1	ND	13.9	ND	--
	1/22/1998	752	53.5	ND	28.1	ND	--
	4/9/1998	371	58.1	ND	ND	ND	--
	7/14/1998	309	16.8	ND	9.51	ND	--
	5/11/1999	429	8.75	<5.0	22.9	<500	<50
	11/3/1999	207	1.78	<0.5	7.86	75.1	--
	5/13/2000	262	0.96	0.87	8.15	<250	--
	10/21/2000	130	<2.50	<2.50	8.12	362	--
	4/12/2001	55.3	<0.500	<0.500	2.08	120	<1.00
	10/9/2001	1.91	<0.500	<0.500	6.34	96.0	<0.500
	5/7/2002	6.16	<0.500	0.706	15.1	116	--
AGW-2	4/23/1997	ND	ND	ND	ND	ND	--
	7/14/1997	ND	ND	ND	ND	ND	--
	10/22/1997	ND	ND	ND	ND	ND	--
	1/22/1998	ND	ND	ND	ND	ND	--
	4/9/1998	ND	ND	ND	ND	ND	--
	7/14/1998	ND	ND	ND	ND	ND	--
	5/11/1999	--	--	--	--	--	--
	11/3/1999	--	--	--	--	--	--
	5/13/2000	--	--	--	--	--	--
	10/21/2000	--	--	--	--	--	--
	4/12/2001	--	--	--	--	--	--
	10/9/2001	--	--	--	--	--	--
	5/7/2002	--	--	--	--	--	--
AGW-3	4/23/1997	12.8	0.591	ND	6.76	ND	--
	7/14/1997	38.9	1.6	0.504	18	363	--
	10/22/1997	6.35	1.14	ND	11.4	83.9	--
	1/22/1998	16.5	1.06	ND	5.68	65.9	--
	4/9/1998	12.2	ND	ND	12.4	ND	--
	7/14/1998	ND	1.24	ND	11.2	79.5	--
	5/11/1999	5.65	0.93	<0.5	10.4	<50	<25
	11/3/1999	<3.38	1.51	<0.5	3.79	72.1	--
	5/13/2000	14.6	1.69	0.70	9.3	92.1	--
	10/21/2000	<2.53	<0.660	<0.500	2.46	189	--
	4/12/2001	0.978	0.752	<0.500	3.58	83.9	<1.00
	10/9/2001	1.60	<0.500	<0.500	2.16	242	--
	5/7/2002	3.37	0.651	<0.500	4.28	258	--

Historical Groundwater Data: Cumulative Summary of Groundwater Sample Analytical Results
Texaco-Branded Station SAP No. 120598
13138 Interurban Avenue South, Tukwila, Washington

Well Number	Sample Date	BTEX (µg/L)				TPH-G (µg/L)	MTBE (µg/L)
		Benzene	Toluene	Ethyl-benzene	Total Xylenes		
AGW-4	4/23/1997	--	--	--	--	--	--
	7/14/1997	--	--	--	--	--	--
	10/22/1997	--	--	--	--	--	--
	1/22/1998	--	--	--	--	--	--
	4/9/1998	--	--	--	--	--	--
	7/14/1998	--	--	--	--	--	--
	5/11/1999	9,830	10,500	3,440	22,200	129,000	<2,500
	11/3/1999	8,280	5,600	2,320	13,800	86,300	--
	5/13/2000	9,000	4,550	2,560	15,100	74,300	--
	10/21/2000	8,930	3,830	2,320	13,200	68,700	--
	4/12/2001	4,090	634	1,070	5,650	28,100	<1.00
	10/9/2001	9,570	4,200	3,520	20,900	100,000	<0.500
	5/7/2002	8,010	1,500	2,370	12,600	70,600	--
AGW-5	4/23/1997	ND	ND	ND	ND	ND	--
	7/14/1997	ND	ND	ND	ND	ND	--
	10/22/1997	ND	ND	ND	ND	ND	--
	1/22/1998	ND	ND	ND	ND	ND	--
	4/9/1998	ND	ND	ND	ND	ND	--
	7/14/1998	ND	ND	ND	ND	ND	--
	5/11/1999	--	--	--	--	--	--
	11/3/1999	--	--	--	--	--	--
	5/13/2000	--	--	--	--	--	--
	10/21/2000	--	--	--	--	--	--
	4/12/2001	--	--	--	--	--	--
	10/9/2001	--	--	--	--	--	--
	5/7/2002	--	--	--	--	--	--
Current Quarter Quality Assurance/Quality Control Samples							
AGW-4 (Duplicate)		9,410	1,760	2,820	14,800	74,300	--
Trip Blank		<0.500	<0.500	<0.500	<1.00	<50.0	--

µg/L = Micrograms per liter; approximate parts per billion.

-- = Not sampled or not analyzed.

TPH-G = Analytical Method changed to NW-TPH-Gx in 2000.

Benzene, toluene, ethylbenzene, and total xylene (BTEX) analysis by EPA 8021B.

ND = Not detected at a concentration above laboratory method reporting limit as previously reported by others.

The exact laboratory method reporting limits were not available to SECOR.

Historical Groundwater Data: Summary of Volatile Organic Compounds Analytical Results
Texaco Station SAP No. 120598
13138 Interurban Avenue, Tukwila, WA

Well Number	Sample Date	Ethanol (mg/L)	1,2-Dibromoethane (mg/L)	1,2-Dichloroethane (mg/L)	Diisopropyl Ether (mg/L)	Ethyl tert-butyl ether (mg/L)	Methyl tert-butyl ether (mg/L)	tert-Amyl Methyl Ether (mg/L)	tert-Butyl Alcohol (mg/L)
AGW-1	10/09/01	—	—	—	<1.00	<1.00	<0.500	2.21	<50.0
AGW-4	10/09/01	—	—	—	<1.00	<1.00	<0.500	<1.00	<50.0

µg/L = Micrograms per liter; approximate parts per billion.

— = Not sampled or not analyzed.

WELLHEAD INSPECTION CHECKLIST AND REPAIR ORDER

Client

Shell

Inspection Date

4-27-06

Site Address

13138 INTERURBAN AVE. S.
TUKWILA, WA.

Inspected By

JBA

1. Lid on box?	6. Casing secure?	12. Water standing in wellbox?	15. Well cap functional?
2. Lid broken?	7. Casing cut level?	12a. Standing above the top of casing?	16. Can cap be pulled loose?
3. Lid bolts missing?	8. Debris in wellbox?	12b. Standing below the top of casing?	17. Can cap seal out water?
4. Lid bolts stripped?	9. Wellbox is too far above grade?	12c. Water even with the top of casing?	18. Padlock present?
5. Lid seal intact?	10. Wellbox is too far below grade?	13. Well cap present?	19. Padlock functional?
	11. Wellbox is crushed/damaged?	14. Well cap found secure?	

☒ Check box if no deficiencies were found. Note below deficiencies you were able to correct.

[illegible]

Note below all deficiencies that could not be corrected and still need to be corrected.

[illegible]