GROUNDWATER MONITORING REPORT **FOURTH QUARTER 2004**

8410 154TH AVENUE NORTHEAST REDMOND, WASHINGTON 98052 TELEPHONE: (425) 861-6000 FAX: (425) 861-6050 www.geoengineers.com

GEOENGINEERS

Former Texaco Service Station 13138 Interurban Avenue South Tukwila, Washington

etense # 369379

EXACO 63-232-0395 TJEWIA UST FYSY

Report date:

December 29, 2004

GeoEngineers file no .:

9876-097-00

SAP Number:

120598

Client:

Tony Palagyi, Shell Oil Products US

2555 13th Avenue SW, Seattle, Washington 98134

GeoEngineers project manager:

Tony N. Orme, PE

Sample date: /

November 23, 2004

Wells gauged: <

AGW-1, AGW-2, AGW-3 and AGW-4

Free product (well/thickness): Groundwater flow direction: None

Direction similar to previous events?:

South

Wells sampled:

No

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:

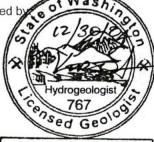
Semiannually

Notes:

Detected concentrations of all analytes in all sampled wells were similar to historical

detected concentrations.

Prepared b



Kurt S. Anderson

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)

Kurt S. Anderson, LG, LHG

Principal

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Note: We have prepared this report for the exclusive use of Shell Oil Products US (Shell), their authorized agents, and regulatory agencies. No other party may place reliance on the product of our services unless we agree in advance and in writing to such reliance. Our services were provided in accordance with our agreement with Shell. Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. No warranty or other conditions, express or implied should be understood.





TABLE 1 SUMMARY OF GROUNDWATER MONITORING DATA BETX AND GASOLINE-RANGE HYDROCARBONS

13138 INTERURBAN AVENUE SOUTH TUKWILA, WASHINGTON

		Depth to	Ground-		Volatile A	romatic			
		Ground-	water		Hydroca	arbons		Gasoline-range	
Well		water	Elevation		(µg			Hydrocarbons	MTBE
Number	Date	(feet)	(feet)	В	E	Т	X	(mg/l)	(µg/l)
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 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	
	11/23/04	13.19	83.19	<5 /	<5	<5 ′	<5	<1.2	
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	
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	
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	
MTCA Meth	od A Cleanup	Level		5.0	700	1,000	1,000	0.8	20

Notes:

Well locations are shown in Figure 2.

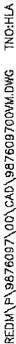
Depth to water from top of well casing.

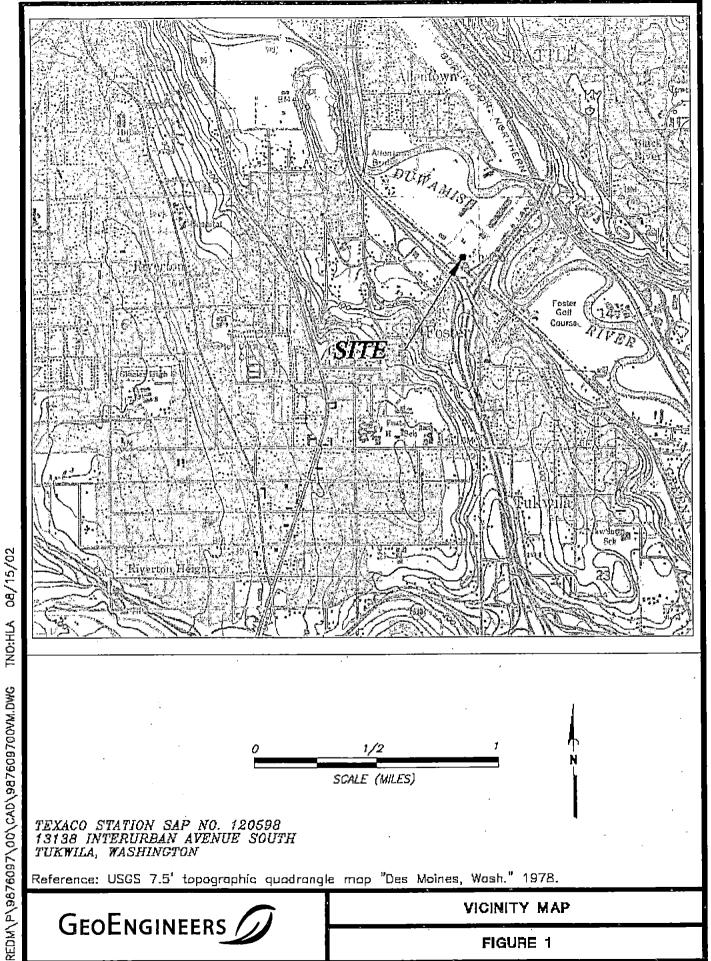
B = benzene, E = ethylbenzene, T = toluene, X = xylenes, MTBE = methyl tert-butyl ether. Analyzed using EPA Method 8021B. Gasoline-range hydrocarbons analyzed using NWTPH-G_x or WTPH-G.

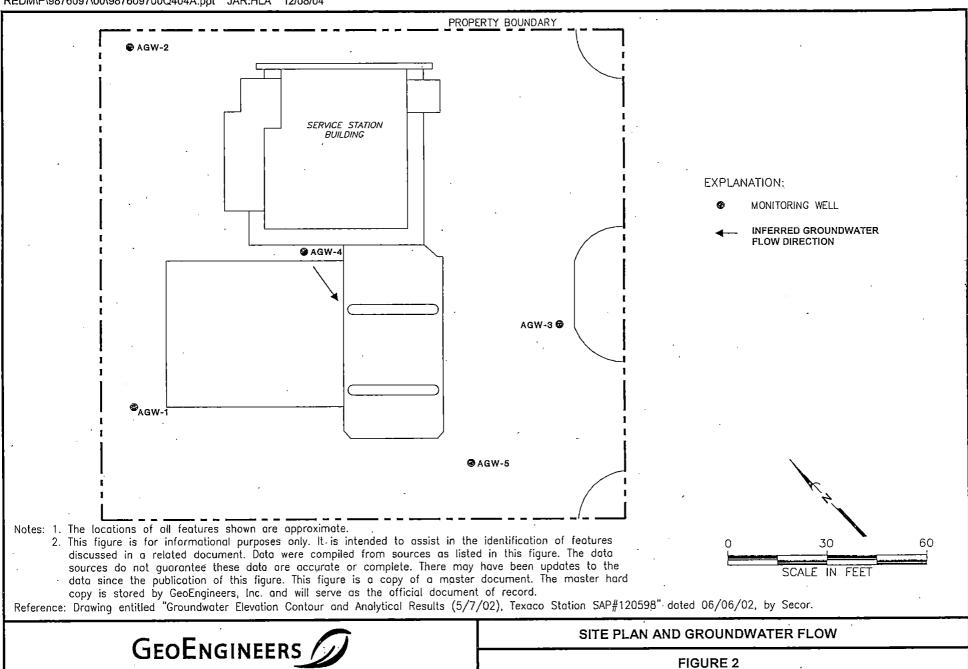
μg/l = micrograms per liter; mg/l = milligrams per liter; ppm = parts per million

NA = Not available.

MTCA = Model Toxics Control Act









Shell Oil Products US

Certificate of Analysis Number:

04111183

Report To:	Project Name:	INC#95995044/SAI	P#120598
Geo Engineers Inc.	Site:	13138 Interurban /	Ave
Tony Orme	Site Address:	13138 Interurban /	Ave
8410 154th Avenue Northeast		Seattle	WA
Redmond	PO Number:		
WA	State:	Washington	
98052-	State Cert. No.:	C156	
ph: (425) 861-6076 fax:	Date Reported:	12/6/2004	•

This Report Contains A Total Of 12 Pages

Excluding This Page & COC

12/8/2004



Case Narrative for: Shell Oil Products US

Certificate of Analysis Number:

04111183

Report To: INC#95995044/SAP#120598 Project Name: 13138 Interurban Ave Site: Geo Engineers Inc. **Tony Orme** Site Address: 13138 Interurban Ave 8410 154th Avenue Northeast Seattle WA PO Number: Redmond Washington State: WA 98052-C156 State Cert. No.: ph: (425) 861-6076 fax: Date Reported: 12/6/2004

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg\kg-dry " or " ug\kg-dry ").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Ec. Ou Rodgo

12/8/2004

Erica Rodgers Project Manager

Date



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054

INC#95995044/SAP#120598

WA

13138 Interurban Ave

13138 Interurban Ave

(713) 660-0901

Shell Oil Products US

Certificate of Analysis Number:

04111183

Report To:

Geo Engineers Inc.

Tony Orme

8410 154th Avenue Northeast

Redmond

WA

98052-

ph: (425) 861-6076

fax:

Site Address: PO Number:

Site:

Project Name:

State:

Washington

Seattle .

State Cert. No.:

C156

Fax To:

12/6/2004 Date Reported:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received -	COCID	HOLD
097AGW01112304	04111183-01	Water	11/23/2004 12:15:00 PM	11/30/2004 9:30:00 AM		
097AGW02112304	04111183-02	Water	11/23/2004 12:30:00 PM	11/30/2004 9:30:00 AM		
097AGW03112304	04111183-03	Water	11/23/2004 12:45:00 PM	11/30/2004 9:30:00 AM		
097AGW04112304	04111183-04	Water	11/23/2004 1:00:00 PM	11/30/2004 9:30:00 AM		

30 Ca Rolg

12/8/2004

Date

Erica Rodgers Project Manager

> Joel Grice Laboratory Director

Ted Yen Quality Assurance Officer

12/8/2004 2:15:18 PM



SPL Sample ID:

Client Sample ID:097AGW01112304

Collected: 11/23/2004 12:15

04111183-01

			Site	: 131	38 Interurb	an Av	9		
Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq.#
GASOLINE RANGE ORGANICS				MCL	NWTP	H-GX	Units: m	g/L	
Gasoline Range Organics	ND		1.2		5		12/03/04 0:58	D_R	2557686
Surr: 1,4-Difluorobenzene	95.0	%	60-155		5		12/03/04 0:58	D_R .	2557686
Surr: 4-Bromofluorobenzene	90.6	%	50-158		5		12/03/04 0:58	D_R	2557686
PURGEABLE AROMATICS	·			MCL	SW8	021B	Units: u	g/L	
Benzene .	ND		5		5		12/03/04 0:58	D_R	2557620
Toluene	ND		5		5		12/03/04 0:58	D_R	2557620
Ethylbenzene	ND		5		5		12/03/04 0:58	D_R	2557620
m,p-Xylene	ND		5		5		12/03/04 0:58	D_R	2557620
o-Xylene	ND		5		5		12/03/04 0:58	D_R	2557620
Xylenes,Total	ND		5		5		12/03/04 0:58	D_R	2557620
Surr: 1,4-Difluorobenzene	102	%	39-163		5		12/03/04 0:58	D_R	2557620
Surr: 4-Bromofluorobenzene	102	%	57-157		5		12/03/04 0:58	D_R	2557620

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

12/8/2004 2:15:21 PM



Client Sample ID:097AGW02112304

Collected: 11/23/2004 12:30

SPL Sample ID:

04111183-02

Site: 13138 Interurban Ave	Site:	13138	Inte	rurban	Ave
----------------------------	-------	-------	------	--------	-----

Analyses/Method	Result		Rep.Limit		Dil. Factor QUAL	Date Analyzed	Analyst	Seq.#
GASOLINE RANGE ORGANICS				MCL	NWTPH-GX	Units: m	g/L	
Gasoline Range Organics	ND		1.2		5	12/03/04 1:25	D_R	2557687
Surr: 1,4-Difluorobenzene	99.7	%	60-155		5 ·	12/03/04 1:25	D_R	2557687
Surr: 4-Bromofluorobenzene	92.7	%	50-158		5	12/03/04 1:25	D_R	2557687
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug]/L	
Benzene	ND		5		5	12/03/04 1:25	D_R	2557621
Toluene	ND		5	-	5	12/03/04 1:25	D_R	2557621
Ethylbenzene	ND		5		5	12/03/04 1:25	D_R	2557621
m,p-Xylene	ND		. 5		5	12/03/04 1:25	D_R	2557621
o-Xylene	ND		5		5 .	12/03/04 1:25	D_R	2557621
Xylenes,Total	ND		5		5	12/03/04 1:25	D_R	2557621
Surr: 1,4-Difluorobenzene	102	%	39-163		5	12/03/04 1:25	D_R	2557621
Surr: 4-Bromofluorobenzene	103	%	57-157		5	12/03/04 1:25	D_R	2557621

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

12/8/2004 2:15:21 PM



Client Sample ID:097AGW03112304

Collected: 11/23/2004 12:45

SPL Sample ID:

04111183-03

Site:	13138	Interur	ban Ave
-------	-------	---------	---------

Analyses/Method	Result		Rep.Limit		Dil. Factor QU	AL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				MCL	NWTPH-G	X	Units: mg	ı/L	
Gasoline Range Organics	ND		0.25		1		12/03/04 1:53	D_R	2557688
Surr: 1,4-Difluorobenzene	97.7	%	60-155		1		12/03/04 1:53 [D_R	2557688
Surr: 4-Bromofluorobenzene	95.0	%	50-158		1		12/03/04 1:53	D_R	2557688
PURGEABLE AROMATICS				MCL	SW8021	В	Units: ug/	/L	
Benzene	ND		1		1		12/03/04 1:53	D_R	2557622
Toluene	ND		1	-	1		12/03/04 1:53	D_R	2557622
Ethylbenzene	ND		1.		1		12/03/04 1:53 I	D_R	2557622
m,p-Xylene	ND		1		1		12/03/04 1:53 I	D_R	2557622
o-Xylene	ND		1		1		12/03/04 1:53 I	D_R	2557622
Xylenes,Total	ND		1		1		12/03/04 1:53	D_R ·	2557622
Surr: 1,4-Difluorobenzene	100	%	39-163		1		12/03/04 1:53 I	D_R	2557622
Surr: 4-Bromofluorobenzene	101	%	57-157		1		12/03/04 1:53	D_R	2557622

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

12/8/2004 2;15:22 PM



Client Sample ID:097AGW04112304

Collected: 11/23/2004 13:00

SPL Sample ID:

04111183-04

			Site	e: 131	38 Interurban Ave	e , , , , , , , , , , , , , , , , , , ,	
Analyses/Method	Result		Rep.Limit		Dil. Factor QUAL	Date Analyzed Analys	t Seq.#
GASOLINE RANGE ORGANICS				MCL	NWTPH-GX	Units: mg/L	
Gasoline Range Organics	37		12	•	50	12/03/04 3:43 D_R	2557690
Surr: 1,4-Difluorobenzene	109	%	60-155		50	12/03/04 3:43 D_R	2557690
Surr: 4-Bromofluorobenzene	110	%	50-158		50	12/03/04 3:43 D_R	2557690
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	13000		50		50	12/03/04 3:43 D_R	2557624
Toluene	810		50		50	12/03/04 3:43 D_R	2557624
Ethylbenzene	2100		50		50	12/03/04 3:43 D_R	2557624
m,p-Xylene	6400		50		50	12/03/04 3:43 D_R	2557624
o-Xylene	1000	•	50		50	12/03/04 3:43 D_R	2557624
Xylenes,Total	7400		50		. 50	12/03/04 3:43 D_R	2557624
Surr: 1,4-Difluorobenzene	116	%	39-163		50	12/03/04 3:43 D_R	2557624
Surr: 4-Bromofluorobenzene	108	%	57-157		50	12/03/04 3:43 D_R	2557624

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

12/8/2004 2:15:24 PM



04111183

R128641

Shell Oil Products US INC#95995044/SAP#120598

Analysis:

Method:

RunID:

Arialysis Date:

SW8021B

Benzene

Toluene

o-Xylene

m,p-Xylene

Xylenes, Total

Surr: 1,4-Difluorobenzene Surr: 4-Bromofluorobenzene

Ethylbenzene

Purgeable Aromatics

VARE_041202C-2557612

Analyte

Method Blank

12/02/2004 19:27

Analyst:

Units:

D_R

ug/L

Result

ND

ND

ND

ND

ND

ND

102.9

102.6

Samples in Analytical Batch:

Lab Sample ID 04111183-01A

04111183-02A

04111183-03A 04111183-04A

097AGW03112304 097AGW04112304

Client Sample ID

097AGW01112304

097AGW02112304

WorkOrder:

Lab Batch ID:

Rep Limit 1.0 1,0 1.0 1.0 1.0

39-163

57-157

Laboratory Control Sample (LCS)

RuniD:

VARE_041202C-2557611

Units:

ug/L

Analysis Date:

12/02/2004 18:32

Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	51.9	104	70	130
Ethylbenzene	50	50.4	101	70	130
Toluene	50	52.0	104	70	130
m,p-Xylene	100	102	102	70	130
o-Xylene	50	51.5	103	70	130
Xylenes,Total	150	153.5	102.2	70	. 130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

04120048-02

RunID:

VARE_041202C-2557613

Units:

ug/L

Analysis Date:

12/02/2004 19:55

Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	22.5	112	20	22.4	112	0.285		-	
Ethylbenzene	ND	20	21.4	107	20	21.0	105	1.97		51	156
Toluene	ND	20	21.9	109	20	21.8	109	0.569	25	58	153

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

12/8/2004 2:15:25 PM



Shell Oil Products US INC#95995044/SAP#120598

Analysis:

Purgeable Aromatics

Method: SW8021B WorkOrder:

04111183

Lab Batch ID:

R128641

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

04120048-02

RunID:

VARE_041202C-2557613

Units:

ug/L

Analysis Date:

12/02/2004 19:55

Analyst:

D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD -	RPD Limit	Low Limit	High Limit
m,p-Xylene	ND	40	42.9	106	40	42.5	105	0.912	27	51	155
o-Xylene	ND	20	21.2	106	20	21.1	106	0.335	25	58	151
Xylenes,Total	ND	60	64.1	106	60	63.6	105	0.721	27	51	155

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

12/8/2004 2:15:25 PM



Shell Oil Products US INC#95995044/SAP#120598

Analysis:

Gasoline Range Organics

Method:

RunID:

Analysis Date:

NWTPH-Gx

WorkOrder:

04111183

Lab Batch ID:

R128643

Method Blank

VARE_041202D-2557682

12/02/2004 19:27

Units: Analyst: mg/L D_R

Lab Sample ID 04111183-01A

Samples in Analytical Batch:

Client Sample ID

04111183-02A

097AGW01112304

04111103-02

097AGW02112304

04111183-03A 04111183-04A 097AGW03112304 097AGW04112304

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.25
Surr: 1,4-Difluorobenzene	96.0	60-155
Curry 4 Dromofluorohopropo	04.3	50 159

Laboratory Control Sample (LCS)

RunID:

VARE_041202D-2557681

Units:

mg/L

Analysis Date:

12/02/2004 19:00

Analyst:

D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.728	72.8	64	131

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

Analysis Date:

04120048-03

RunID:

VARE_041202D-2557683

12/02/2004 20:50

Units:

Analyst:

mg/L D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	1.01	112	0.9	1.03	115	2.01	36	36	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

12/8/2004 2:15:25 PM

Sample Receipt Checklist And Chain of Custody



Sample Receipt Checklist

-								
Wo	rkorder:	04111183			Received	Ву:	NB	
Date	e and Time Received:	11/30/2004 9:30:00 AM			Carrier na	ame:	FedEx	
Ten	nperature: `	3.0°C	•		Chilled by	y:	Water Ice	
1.	Shipping container/co	oler in good condition?	Yes	<u>V</u>	No 🗆	Not Prese	nt 🗆	
2.	Custody seals intact o	n shippping container/cooler?	Yes	V	No 🗆	Not Prese	nt 🗌	
3.	Custody seals intact o	n sample bottles?	Yes		No 🗆	Not Prese	ent 🗹	
4.	Chain of custody pres	ent?	Yes	~	No 🗆			
5.	Chain of custody sign	ed when relinquished and received?	Yes	\checkmark	No 🗆			
6.	Chain of custody agre	es with sample labels?	Yes	$oldsymbol{ odd}$	No 🗆			
7.	Samples in proper cor	ntainer/bottle?	Yes	\checkmark	No 🗌			
8.	Sample containers into	act?	Yes	\checkmark	No 🗆			
9.	Sufficient sample volu	me for indicated test?	Yes	$ \mathbf{Z} $	No 🗌			
10.	All samples received v	vithin holding time?	Yes	lacksquare	No 🗆			
11.	Container/Temp Blank	temperature in compliance?	Yes	\checkmark	No 🗆			
12.	Water - VOA vials have	e zero headspace?	Yes	✓	No 🗆	Not Applic	cable 🗍	
13.	Water - pH acceptable	Yes	☑ .	No 🗌	Not Appli	cable 🗌		
						· 		
	SPL Representativ	Cont	act Date & T	ime:		-		
	Client Name Contacte	ed:]					
	Non Conformance Issues:							
	Client Instructions:							
	L	··						

8880 Interchange

Houston, TX 77054

Shell Project Manager to be invoiced: Towy ALAGY ! DISCHING SHELL OIL PRODUCTS US TECHNICAL SERVICES:

1/2015/9/8

CRYIT HOUSTON 800-969-6775 713-660-0901 SITE ADDRESS (Street and City): REQUESTED ANALYSIS 18 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS ☐ LA - RWOCB REPORT FORMAT ☐ UST AGENCY:_ FIELD NOTES: HIGHEST per BORING GC/MS MTBE CONFIRMATION: HIGHEST TEMPERATURE ON RECEIPT C 3.0 SPECIAL INSTRUCTIONS OR NOTES: Container/Preservative or PID Readings or Laboratory Notes SAMPLING NO, OF MATRIX Field Sample Identification DATE TIME 3 39746WOI 112304 097 16W02112304 09746W03,12304 HCL Received by: (Signature) Reinquished by, (Signature)

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

VCN 3 0012 870 0 1022/01/2019 (1918) \$200

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 SW (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
ľ	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
ì	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	
33.47	7/14/1997	11,30	0.00	0.00	84.17	-1.54
ì	10/22/1997	11.36	0.00	0.00	84.11	-0.06
1	1/22/1998	9.40	0.00	0.00	86.07	1.96
1	4/9/1998	11,18	0.00	0.00	84.29	-1.78
ļ	7/14/1998	11.67	0.00	0.00	83.80	-0.49
	5/11/1999	12,25	0,00	0.00	83.22	-0.49
	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	- 12,33				-1,43
AGW-3	4/00/:			·		
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 SWI (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	
07.00	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

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

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

	1		BTEX	(µg/L)				
Well Number	Sample Date	Benzene ·	Toluene	Ethyl- benzene	Total Xylenes	TPH-G (µg/L)	MTBE (μg/L)	
AGW-4	4/23/1997		<u></u>					
	7/14/1997							
	10/22/1997							
	1/22/1998					,		
ļ	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 Qua	rter Quality Assu	rance/Quality Con	trol Samples			
AGW-4 (Duplicate)	9,410	1,760	2,820	14,800	74,300	<u></u>	
Trip	Blank	<0.500	<0.500	<0.500	<1.00	<50.0		

 $[\]mu$ g/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- Dibromoethan e (mg/L)	1,2- Dichloroethan e (mg/L)	Diisopropyl Ehter (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	She	11		Inspection Date	1-23-04) , 			
Site Address	_	SIZI INTERURAU.	<u>A</u> w	S, Inspected By	CIAN,	4DELS			
1. Lid on box?	<u> </u>	6. Casing secure?	12.	12. Water standing in wellbox? 15. Well cap functional?					
2. Lid broken?		7. Casing cut lével?		Standing above the top of casing?	16. Can cap be				
3. Lid bolts missi	na?	8. Debris in wellbox?		Standing below the top of casing?	17. Can cap sea	•			
4. Lid bolts stripp		9. Wellbox is too far above grade?	1	Water even with the top of casing?	18. Padlock pre				
5. Lid seal intact?		10. Wellbox is too far below grade?	1	Well cap present?	19. Padlock fun				
	•	11. Wellbox is crushed/damaged?	1	Well cap found secure?					
7	ox if ı	no deficiencies were found. Not	e bel	ow deficiencies you were able Corrective A					
Well I.D.		Deficiency		Confective A	CUON Jaken	· · · · · · · · · · · · · · · · · · ·			
									
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			•	· ·					
									
	<u></u>	······································			·	<u> </u>			
									
Note below al	I defic	ciencies that could not be correc	ted a	nd still need to be corrected.					
				BTS Office Assigns or	Date	Date			
Well I.D.	Well I.D. Persisting Deficiency			Defers Correction to:	Assigned	Corrected			
						· ·			
		<u> </u>		·	 	<u> </u>			
		·			·	<u> </u>			