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March 7, 2001

DEPARTMENT OF ECOLOGY
S.W. REGIONAL OFFICE

Mr. Tony Palagyi
Equiva Services, LLC
10602 NE 38th Place
Kirkland, Washington 98033

Subject: Semi-Annual Groundwater Monitoring - First Quarter 2001
Former Shell Station SAP No. 121007
2523 Pacific Avenue, Tacoma, Washington
SECOR PN: 001.01169.500

Dear Mr. Palagyi:

Four groundwater monitoring wells were monitored and three wells were sampled by SECOR at the referenced site on February 14, 2001. Free product was not detected in the monitoring wells.

Attachments include: a vicinity map and a groundwater elevation contour/analytical results summary map (Attachment 1), summaries of groundwater monitoring (Table 1) and analytical data (Table 2) (Attachment 2), laboratory analytical report (Attachment 3), and field forms (Attachment 4).

SECOR's field procedures were performed in accordance with SECOR's Standard Operating Procedures for quality assurance and quality control, as outlined in SECOR's December 27, 2000 Unit Price Bid.

SECOR appreciates the opportunity to be of service to Equiva on this project. If you have any questions regarding the information provided in this report, please contact us at (425) 372-1600.

Sincerely,
SECOR International Incorporated

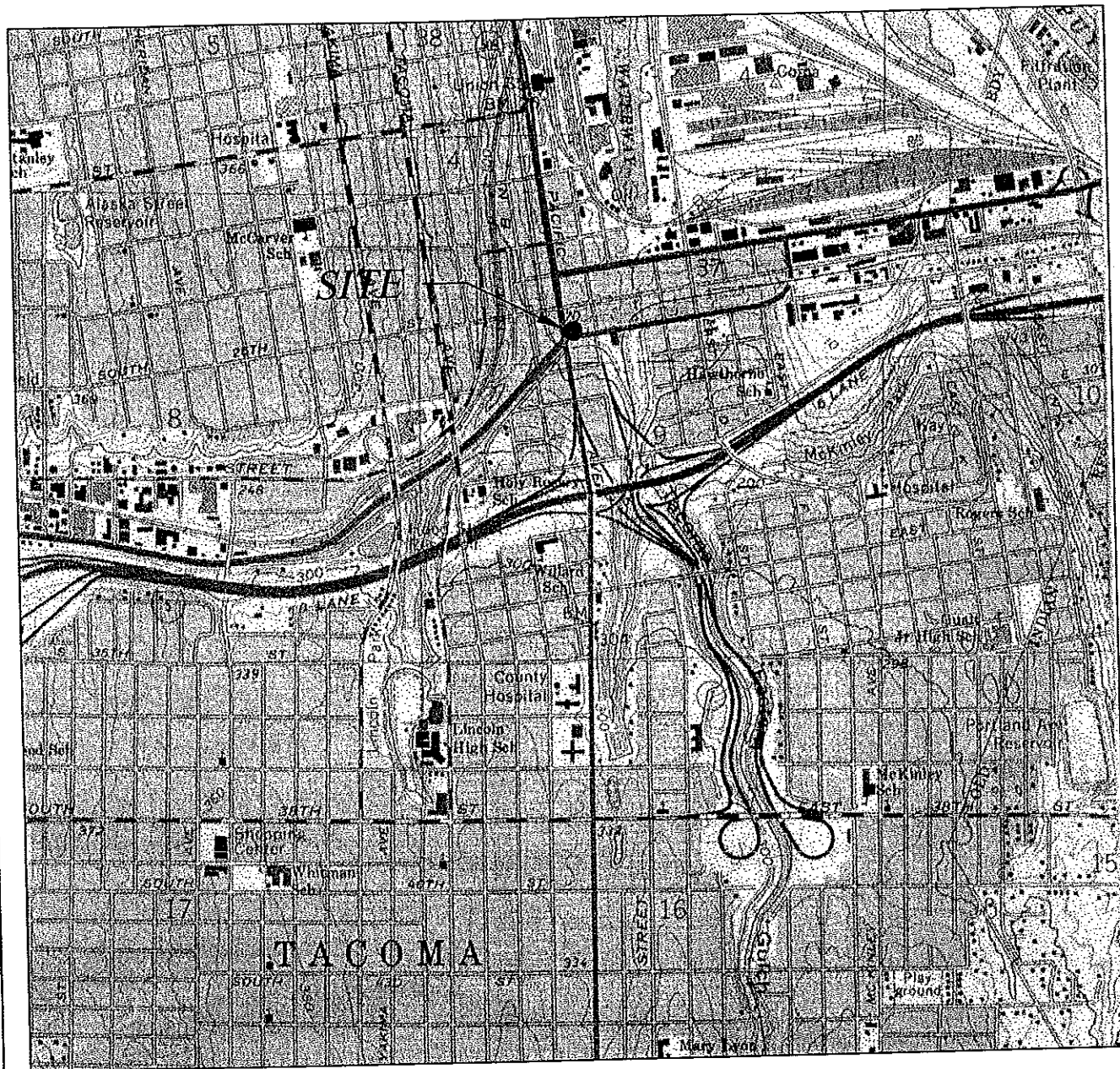

Marc Sauze
Associate Engineer

 Fol:
Brian J. Pletcher, R.G.
Senior Geologist

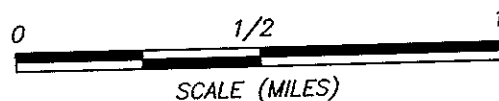
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Attachments (4)

cc: Ms. Carol Johnston, Washington State Department of Ecology

ATTACHMENT 1
FIGURES



WASHINGTON



REFERENCE: USGS 7.5 MINUTE QUADRANGLE; TACOMA SOUTH, WASHINGTON; 1994

SECOR
International Incorporated

SITE LOCATION MAP
FORMER SHELL SERVICE STATION 121007
2523 PACIFIC AVENUE
TACOMA, WASHINGTON

FIGURE:

1

JOB#: 001.01169.500

APPR: *[Signature]*

DWN: SES

DATE: 3/27/01

DWG: 121007M

ATTACHMENT 2
TABLES

Table 1. Cumulative Summary of Groundwater Elevations
Former Shell Station SAP No. 121007
2523 Pacific Avenue, Tacoma, Washington

Well Number/ TOC Elevation	Date of Measurement	DTW (feet)	DTFP (feet)	FPT (feet)	SWL (feet)	Change in SWL (feet)
MW-1 75.00	01/14/98	33.27	0.00	0.00	41.73	--
	02/18/99	34.35	0.00	0.00	40.65	-1.08
	07/07/99	34.03	0.00	0.00	40.97	0.32
	03/23/00	33.37	0.00	0.00	41.63	0.66
	08/13/00	34.43	0.00	0.00	40.57	-1.06
	02/14/01	34.11	0.00	0.00	40.89	0.32
MW-2 73.14	01/14/98	43.61	0.00	0.00	29.53	--
	02/18/99	--	--	--	--	--
	07/07/99	--	--	--	--	--
	03/23/00	--	--	--	--	--
	08/13/00	--	--	--	--	--
	02/14/01	--	--	--	--	--
MW-3 74.71	01/14/98	30.52	0.00	0.00	44.19	--
	02/18/99	--	--	--	--	--
	07/07/99	--	--	--	--	--
	03/23/00	--	--	--	--	--
	08/13/00	--	--	--	--	--
	02/14/01	--	--	--	--	--
MW-4 73.98	01/14/98	31.66	0.00	0.00	42.32	--
	02/18/99	31.02	0.00	0.00	42.96	0.64
	07/07/99	32.31	0.00	0.00	41.67	-1.29
	03/23/00	31.73	0.00	0.00	42.25	0.58
	08/13/00	32.69	0.00	0.00	41.29	-0.96
	02/14/01	32.40	0.00	0.00	41.58	0.29

Table 1. Cumulative Summary of Groundwater Elevations
Former Shell Station SAP No. 121007
2523 Pacific Avenue, Tacoma, Washington

Well Number/ TOC Elevation	Date of Measurement	DTW (feet)	DTFP (feet)	FPT (feet)	SWL (feet)	Change in-SWL (feet)
MW-5 68.10	01/14/98	29.21	0.00	0.00	38.89	--
	02/18/99	--	--	--	--	--
	07/07/99	--	--	--	--	--
	03/23/00	--	--	--	--	--
	08/13/00	--	--	--	--	--
	02/14/01	--	--	--	--	--
MW-6 76.56	01/14/98	34.01	0.00	0.00	42.55	--
	02/18/99	33.50	0.00	0.00	43.06	0.51
	07/07/99	34.45	0.00	0.00	42.11	-0.95
	03/23/00	33.61	0.00	0.00	42.95	0.84
	08/13/00	35.67	0.00	0.00	40.89	-2.06
	02/14/01	34.18	0.00	0.00	42.38	1.49
MW-7 74.53	01/14/98	30.08	0.00	0.00	44.45	--
	02/18/99	21.20	0.00	0.00	53.33	8.88
	07/07/99	28.87	0.00	0.00	45.66	-7.67
	03/23/00	18.90	0.00	0.00	55.63	9.97
	08/13/00	31.27	0.00	0.00	43.26	-12.37
	02/14/01	29.20	0.00	0.00	45.33	2.07
MW-8 71.53	01/14/98	40.03	0.00	0.00	31.50	--
	02/18/99	--	--	--	--	--
	07/07/99	--	--	--	--	--
	03/23/00	--	--	--	--	--
	08/13/00	--	--	--	--	--
	02/14/01	--	--	--	--	--
MW-9 74.69	01/14/98	16.80	0.00	0.00	57.89	--
	02/18/99	--	--	--	--	--
	07/07/99	--	--	--	--	--
	03/23/00	--	--	--	--	--
	08/13/00	--	--	--	--	--
	02/14/01	--	--	--	--	--

Table 1. Cumulative Summary of Groundwater Elevations
Former Shell Station SAP No. 121007
2523 Pacific Avenue, Tacoma, Washington

Well Number/ TOC Elevation	Date of Measurement	DTW (feet)	DTFP (feet)	FPT (feet)	SWL (feet)	Change in SWL (feet)
MW-10 *	08/13/00	23.29	--	--	--	--
	02/14/01	--	--	--	--	--
MW-11 *	08/13/00	20.78	--	--	--	--
	02/14/01	--	--	--	--	--
MW-12 *	08/13/00	44.08	--	--	--	--
	02/14/01	--	--	--	--	--

TOC = Top of casing.

DTW = Depth to water.

DTFP = Depth to free product

FPT = Free product thickness.

SWL = Static water level.

-- = Not monitored.

* MW-10, MW-11 and Mw-12 have not been scaled into Figure 2 and are therefore not presented.

Table 2. Cumulative Summary of Groundwater Sample Analytical Results
Former Shell Station SAP No. 121007
2523 Pacific Avenue, Tacoma, Washington

Well Number	Sample Date	BTEX (µg/L)				TPH-G (µg/L)	MTBE (µg/L)
		Benzene	Toluene	Ethyl-benzene	Total Xylenes		
MW-1	01/23/97	33	12	65	519	10,300	--
	01/15/98	189	19	76	528	8,880	29
	02/18/99	105	20.6	62	187	3,410	<25.0
	07/07/99	7.4	0.946	4.18	13.4	333	--
	03/23/00	70.6	6.6	38	95.5	1,490	--
	08/13/00	48.3	7.35	32.4	75.1	4,090	11.8
	02/14/01	60.3	10.3	65.0	170	2,980	--
MW-2	01/23/97	2.9	3.6	2.4	3.6	139	--
	01/15/98	0.53	ND	ND	ND	54	ND
	02/18/99	--	--	--	--	--	--
	07/07/99	--	--	--	--	--	--
	03/23/00	--	--	--	--	--	--
	08/13/00	--	--	--	--	--	--
	02/14/01	--	--	--	--	--	--
MW-3	01/23/97	1.4	1.3	1.6	18	473	--
	01/15/98	14	1.4	2.2	14	806	ND
	02/18/99	--	--	--	--	--	--
	07/07/99	--	--	--	--	--	--
	03/23/00	--	--	--	--	--	--
	08/13/00	--	--	--	--	--	--
	02/14/01	--	--	--	--	--	--
MW-4	01/23/97	ND	ND	ND	ND	ND	--
	01/15/98	3.5	ND	ND	ND	139	ND
	02/18/99	--	--	--	--	--	--
	07/07/99	--	--	--	--	--	--
	03/23/00	--	--	--	--	--	--
	08/13/00	--	--	--	--	--	--
	02/14/01	--	--	--	--	--	--
MW-5	01/23/97	ND	ND	ND	ND	156	--
	01/15/98	1.6	ND	ND	2.1	112	ND
	02/18/99	--	--	--	--	--	--
	07/07/99	--	--	--	--	--	--
	03/23/00	--	--	--	--	--	--
	08/13/00	--	--	--	--	--	--
	02/14/01	--	--	--	--	--	--

Table 2. Cumulative Summary of Groundwater Sample Analytical Results
Former Shell Station SAP No. 121007
2523 Pacific Avenue, Tacoma, Washington

Well Number	Sample Date	BTEX (µg/L)				TPH-G (µg/L)	MTBE (µg/L)
		Benzene	Toluene	Ethylbenzene	Total Xylenes		
MW-6	01/23/97	ND	ND	ND	ND	ND	--
	01/15/98	35	ND	ND	ND	66	ND
	02/18/99	<0.5	2.59	<0.5	<1.0	85.9	<5.00
	07/07/99	6.41	<0.5	<0.5	<1.0	<50	--
	03/23/00	<0.5	<0.5	<0.5	<1.0	<50	--
	08/13/00	<0.5	<0.5	<0.5	1.0	<50	<5.00
	02/14/01	<0.500	<0.500	<0.500	<1.00	<50.0	--
MW-7	01/23/97	16	14	113	308	7,860	--
	01/15/98	88	12	101	271	5,170	ND
	02/18/99	2.87	18.5	67	176	3,020	<25.0
	07/07/99	20	16.9	143	425	6,700	--
	03/23/00	85.1	20.1	150	418	3,370	--
	08/13/00	<3.37	13.9	146	363	5,280	<25.0
	02/14/01	<0.910	<0.500	<0.500	<2.57	121	--
MW-8	01/23/97	0.91	ND	ND	ND	ND	--
	01/15/98	ND	ND	0.73	ND	68	ND
	02/18/99	--	--	--	--	--	--
	07/07/99	--	--	--	--	--	--
	03/23/00	--	--	--	--	--	--
	08/13/00	--	--	--	--	--	--
	02/14/01	--	--	--	--	--	--
MW-9	01/23/97	ND	14	31	174	2,870	--
	01/15/98	10	10	80	271	2,050	ND
	02/18/99	--	--	--	--	--	--
	07/07/99	--	--	--	--	--	--
	03/23/00	--	--	--	--	--	--
	08/13/00	--	--	--	--	--	--
	02/14/01	--	--	--	--	--	--
Current Quarter Quality Assurance/Quality Control Samples							
MW-7 (Duplicate)		0.677	<0.500	<0.500	3.33	558	--
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.

MTBE = Methyl tert-butyl ether.

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.

ATTACHMENT 3
LABORATORY ANALYTICAL REPORT



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane East 5 Montgomery, Suite B, Spokane, WA 99206-4776
509.320.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Secor-Redmond
PO Box 230, 12034 - 134th Ct NE Ste 102
Redmond WA, 98073

Project: Equilon SAP #121007
Project Number: 001.01169.500
Project Manager: Marc Sauze

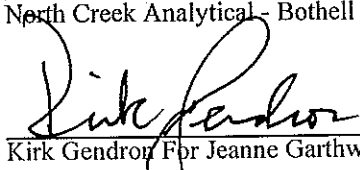
Reported:
02/27/01 12:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	B1B0294-01	Water	02/14/01 10:35	02/15/01 15:40
MW-6	B1B0294-02	Water	02/14/01 10:30	02/15/01 15:40
MW-7	B1B0294-03	Water	02/14/01 10:40	02/15/01 15:40
DUP-2523	B1B0294-04	Water	02/14/01 10:45	02/15/01 15:40
TB-2523	B1B0294-05	Water	02/14/01 12:00	02/15/01 15:40

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Kirk Gendron For Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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425.420.9200 fax 425.420.9210
Spokane 509.420.9200 fax 509.420.9210
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Secor-Redmond
PO Box 230, 12034 - 134th Ct NE Ste 102
Redmond WA, 98073

Project: Equilon SAP #121007
Project Number: 001.01169.500
Project Manager: Marc Sauze

Reported:
02/27/01 12:30

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (B1B0294-01) Water Sampled: 02/14/01 10:35 Received: 02/15/01 15:40									
Gasoline Range Hydrocarbons	2980	50.0	ug/l	1	1B19003	02/19/01	02/19/01	NWTPH-Gx/8021B	
Benzene	60.3	0.500	"	"	"	"	"	"	
Toluene	10.3	0.500	"	"	"	"	"	"	
Ethylbenzene	65.0	0.500	"	"	"	"	"	"	
Xylenes (total)	170	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	%	50-150			"	"	"	"	S-04
Surrogate: 4-BFB (PID)	162 %	50-150			"	"	"	"	S-04
MW-6 (B1B0294-02) Water Sampled: 02/14/01 10:30 Received: 02/15/01 15:40									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1B19003	02/19/01	02/19/01	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	88.8 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	94.6 %	50-150			"	"	"	"	
MW-7 (B1B0294-03) Water Sampled: 02/14/01 10:40 Received: 02/15/01 15:40									
Gasoline Range Hydrocarbons	121	50.0	ug/l	1	1B19003	02/19/01	02/20/01	NWTPH-Gx/8021B	
Benzene	ND	0.910	"	"	"	"	"	"	R-03
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	2.57	"	"	"	"	"	"	R-03
Surrogate: 4-BFB (FID)	102 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	106 %	50-150			"	"	"	"	

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425.481.7200 fax 425.420.9210
Spokane East 1000 J. Montgomery, Suite B, Spokane, WA 99206-4776
509.481.7200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
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Secor-Redmond
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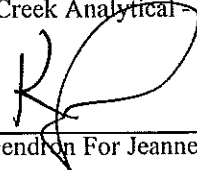
Reported:
02/27/01 12:30

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DUP-2523 (B1B0294-04) Water Sampled: 02/14/01 10:45 Received: 02/15/01 15:40									
Gasoline Range Hydrocarbons	558	50.0	ug/l	1	1B19003	02/19/01	02/20/01	NWTPH-Gx/8021B	
Benzene	0.677	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	3.33	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	121 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	102 %	50-150			"	"	"	"	
TB-2523 (B1B0294-05) Water Sampled: 02/14/01 12:00 Received: 02/15/01 15:40									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1B19003	02/19/01	02/19/01	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	98.1 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	102 %	50-150			"	"	"	"	

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 425.420.9200 fax 425.420.9210
 Spokane 509.320.9200 fax 509.320.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 541.383.9310 fax 541.382.7588

Secor-Redmond
 PO Box 230, 12034 - 134th Ct NE Ste 102
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Project: Equilon SAP #121007
 Project Number: 001.01169.500
 Project Manager: Marc Sauze

Reported:
 02/27/01 12:30

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B19003: Prepared 02/19/01 Using EPA 5030B (P/T)

Blank (1B19003-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	43.9		"	48.0		91.5	50-150			
Surrogate: 4-BFB (PID)	47.1		"	48.0		98.1	50-150			

Blank (1B19003-BLK2)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	42.9		"	48.0		89.4	50-150			
Surrogate: 4-BFB (PID)	46.5		"	48.0		96.9	50-150			

LCS (1B19003-BS1)

Gasoline Range Hydrocarbons	460	50.0	ug/l	500		92.0	70-130			
Surrogate: 4-BFB (FID)	48.2		"	48.0		100	50-150			

LCS (1B19003-BS2)

Gasoline Range Hydrocarbons	488	50.0	ug/l	500		97.6	70-130			
Surrogate: 4-BFB (FID)	54.6		"	48.0		114	50-150			

Duplicate (1B19003-DUP1)

Source: B1B0297-02

Gasoline Range Hydrocarbons	1810	100	ug/l		1810			0.00	25	
Surrogate: 4-BFB (FID)	68.5		"	48.0		143	50-150			

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425.420.9200 fax 425.420.9210
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Secor-Redmond
PO Box 230, 12034 - 134th Ct NE Ste 102
Redmond WA, 98073

Project: Equilon SAP #121007
Project Number: 001.01169.500
Project Manager: Marc Sauze

Reported:
02/27/01 12:30

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
Batch 1B19003: Prepared 02/19/01 Using EPA 5030B (P/T)									
Duplicate (1B19003-DUP2)					Source: B1B0297-08				
Gasoline Range Hydrocarbons	ND	50.0	ug/l	ND			31.6	25	Q-05
Surrogate: 4-BFB (FID)	34.3		"	48.0		71.5 50-150			
Matrix Spike (1B19003-MS1)					Source: B1B0297-05				
Benzene	9.41	0.500	ug/l	10.0	ND	93.4 70-130			
Toluene	9.71	0.500	"	10.0	ND	95.5 70-130			
Ethylbenzene	10.2	0.500	"	10.0	ND	102 70-130			
Xylenes (total)	30.3	1.00	"	30.0	ND	100 70-130			
Surrogate: 4-BFB (PID)	51.8		"	48.0		108 50-150			
Matrix Spike Dup (1B19003-MSD1)					Source: B1B0297-05				
Benzene	9.36	0.500	ug/l	10.0	ND	93.0 70-130	0.533	15	
Toluene	9.77	0.500	"	10.0	ND	96.1 70-130	0.616	15	
Ethylbenzene	10.2	0.500	"	10.0	ND	102 70-130	0.00	15	
Xylenes (total)	30.1	1.00	"	30.0	ND	99.5 70-130	0.662	15	
Surrogate: 4-BFB (PID)	50.7		"	48.0		106 50-150			

North Creek Analytical - Bothell

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Kirk Gendron For Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 5 of 6



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane East : Montgomery, Suite B, Spokane, WA 99206-4776
509.324.2000 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 28332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Secor-Redmond
PO Box 230, 12034 - 134th Ct NE Ste 102
Redmond WA, 98073

Project: Equilon SAP #121007
Project Number: 001.01169.500
Project Manager: Marc Sauze

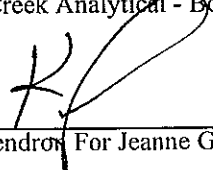
Reported:
02/27/01 12:30

Notes and Definitions

- Q-05 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.
- R-03 The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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Kirk Gendron For Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 6 of 6

TEXACO CHAIN OF CUSTODY REPORT

8130294

TEXACO INFORMATION

Facility Number: 121067

Project Manager: T. Palayi

Texaco Job #:

Site Address: 2523 Pacific Ave

City, State, Zip: Tacoma, WA

CONSULTANT INFORMATION

Name: SECOR Project# 001.01169.568

Address: 12034 134th Ct. NE, Suite 102

Redmond, WA

Phone: (425) 372-1600 Fax: (425) 372-1650

Project Manager: Marc Sauc

Sample Collection by: Kevin McCarthy

Laboratory Turnaround Time

☐ 1 Business Day

☐ 3 Business Days

☐ 5 Business Days

☒ 10 Business Days

☐ 3 Day Air Samples (Please Select One)

SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W.S.O.)	# OF CON. TAINERS
1. MWS - 1	2-14-01 10:35	W	2
2. MWS - 6	10:30		
3. MWS - 7	10:40		
4. Dup - 2523	10:45		
5. T3 - 2523			
6.			
7.			
8.			
9.			
10.			

TPH-HCID	TPH-Gas	BTEX Only EPA 8021 Mod.	TPH-Gas + BTEX	TPH-Diesel	TPH-Diesel Extended	TPH-Diesel-Ext. w/SG Cleanup	Halogen. Volatiles EPA 8021	Pesticides/PCBs or PCBs Only	GC/MS Volatiles EPA 8260	GC/MS Semi Vols. EPA 8270	PAH's: 8270 SIM or 8310	Lead: Total or Dissolved	TCLP or RCRA Metals (8)
			X										

NCA SAMPLE NUMBER
-01
-02
-03
-04
-05

Relinquished by:

Firm:

Date & Time

Received by:

Firm:

Date & Time

Additional Comments:

Kevin McCarthy SECOR 2-15-01

SECOR

2-15-01

Kevin McCarthy

SECOR

2/15/01

1540

W/O 1.7°

ATTACHMENT 4
FIELD FORMS

TEXACO Facility ID# 121007DATE: 2-14-01Site Address: 2523 PACIFIC AVENUECity, State: TACOMA, WAField Personnel: KM

Well Number	MW-1	MW-4	MW-6	MW-7		
TIME	10:20	10:10	10:15	10:25		
TD (ft)				-		
- DTW (ft)						
= WC (ft)						
20% x WC =						
+DTW = 80% DTW						
Well Diam. (in)	4"	4"	4"	4"		
x Multiplier: 2" = 0.5 4" = 2.0 6" = 4.4						
= Purge Volume						
Actual Purge Volume						
Purge Method (B or P)	B		B	B		
DTW when sampled > 80%? (Y/N)						
If No, DTW after 2 hours:						
Sample ID	MW-1	—	MW-6	MW-7		
Sample time	10:35		10:30	10:40		
DUPLICATE				10:45 DUP-2523		
Sheen (Y/N) / odor	N / strong	N / N	N / N	N / slight		
Free Product (Y/N)	N	N	N	N		
DTW	34.11	32.40	34.18	29.20		
- DTFP						
= FPT						

TD = Total Depth of well.

DTW = Depth to Water below top of casing.

WC = Water Column.

B = Bailer.

P = Pump.

DTFP = Depth to Free Product.

FPT = Free Product Thickness.

EQUIVA
No Purge Field Form
Washington Sites / 2001

Page / of /		SECOR Personnel	Km
Date / Quarter	2-14-01 / 1st	EQUIVA SAP Number	121007
SECOR Job Number	001.01169.500	Equiva Project Manager	T. Palagyi
Site Address	801 Division ^{Em} , Tacoma WA, 2522 Pacific, Tacoma WA		
No. of Wells Monitored	4	Weather Foggy	100 % Cloud Cover
No. of Wells w/ Free Product	0	Temperature 40°	
No. of Wells Sampled	3	New Monument Gaskets Y/N	12-inch = / 8-inch =
No. of Samples Submitted	6 + 2 dup + 1 TB	Monument Bolts Replaced Y/N	Size = / Total # =

Field Notes :

9:05 - Arrive on-site, notify attendant of sampling / survey event

9:10 - Organize notes, forms, sample containers

9:15 - setup and survey in wells MW-10, 11, 12

10:00 - setup for monitoring of wells

10:30 - Sample wells

* Notes - site has been extensively changed. Building has been either torn down & rebuilt or extensively remodeled. Remediation system & enclosure gone, now a drive-through for A+W / Taco Bell located inside Texaco building. MW-5, 8, 9, 3 destroyed

Monument Repairs: (photo/description)



North Creek Analytical, Inc.
11720 North Creek Pkwy. Ma.
Suite 400
Bedford, MA 01730 1-800-225-1111

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 98206-4779
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

(425) 420-9200 FAX (425) 420-9210
(509) 924-9200 FAX 924-9290
(503) 906-9200 FAX 906-2202

TEXACO CHAIN OF CUSTODY REPORT

TEXACO INFORMATION	
Facility Number:	121007
Project Manager:	T. Palagyi
Texaco Job #:	
Site Address:	2523 Pacific Ave
City, State, Zip:	Tacoma, WA

CONSULTANT INFORMATION	
Name: SECOR	Project# 001.01169.500
Address: 12034 134th Ct. NE, Suite 102 Redmond, WA	
Phone: (425) 372-1600	Fax: (425) 372-1650
Project Manager: Marc Sauze	
Sample Collection by: Kevin McCarthy	

Laboratory Turnaround
Time

☐ 1 Business Day

☐ 3 Business Days

☐ 5 Business Days

☒ 10 Business Days

☐ 3 Day Air Samples
(Please Select One)

[illegible][illegible]

Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time
<i>Kevin McLaughlin</i>	<i>SEIOR</i>	<i>2-15-01</i>			

Secor-Redmond
POBox230,12034-134thCtNESte102
RedmondWA,98073

Project: EquilonSAP#121007
ProjectNumber: 001.01169.500
ProjectManager: MarcSauze

Reported:
02/27/0112:30

ANALYTICALREPORTFORSAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	B1B0294-01	Water	02/14/0110:35	02/15/0115:40
MW-6	B1B0294-02	Water	02/14/0110:30	02/15/0115:40
MW-7	B1B0294-03	Water	02/14/0110:40	02/15/0115:40
DUP-2523	B1B0294-04	Water	02/14/0110:45	02/15/0115:40
TB-2523	B1B0294-05	Water	02/14/0112:00	02/15/0115:40

NorthCreekAnalytical-Bothell

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Kirk Gendron For Jeanne Garthwaite, Project Manager

Secor-Redmond
POBox230,12034-134thCtNESte102
RedmondWA,98073

Project: EquilonSAP#121007
ProjectNumber: 001.01169.500
ProjectManager: MarcSauze

Reported:
02/27/01 12:30

VolatilePetroleumProductsandBTExbyNWTPH-GxandEPA8021B
NorthCreekAnalytical-Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1(B1B0294-01)WaterSampled:02/14/0110:35Received:02/15/0115:40									
GasolineRangeHydrocarbons	2980	50.0	ug/l	1	1B19003	02/19/01	02/19/01	NWTPH-Gx/8021B	
Benzene	60.3	0.500	"	"	"	"	"	"	
Toluene	10.3	0.500	"	"	"	"	"	"	
Ethylbenzene	65.0	0.500	"	"	"	"	"	"	
Xylenes(total)	170	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	%	50-150			"	"	"	"	S-04
Surrogate: 4-BFB (PID)	162%	50-150			"	"	"	"	S-04
MW-6(B1B0294-02)WaterSampled:02/14/0110:30Received:02/15/0115:40									
GasolineRangeHydrocarbons	ND	50.0	ug/l	1	1B19003	02/19/01	02/19/01	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes(total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	88.8%	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	94.6%	50-150			"	"	"	"	
MW-7(B1B0294-03)WaterSampled:02/14/0110:40Received:02/15/0115:40									
GasolineRangeHydrocarbons	121	50.0	ug/l	1	1B19003	02/19/01	02/20/01	NWTPH-Gx/8021B	R-03
Benzene	ND	0.910	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes(total)	ND	2.57	"	"	"	"	"	"	R-03
Surrogate: 4-BFB (FID)	102%	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	106%	50-150			"	"	"	"	

NorthCreekAnalytical-Bothell

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Secor-Redmond
PO Box 230, 12034-134th Ct NE Ste 102
Redmond WA, 98073

Project: Equilon SAP#121007
Project Number: 001.01169.500
Project Manager: Marc Sauze

Reported:
02/27/01 12:30

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B
North Creek Analytical-Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DUP-2523(B1B0294-04) Water Sampled: 02/14/01 10:45 Received: 02/15/01 15:40									
Gasoline Range Hydrocarbons	558	50.0	ug/l	1	1B19003	02/19/01	02/20/01	NWTPH-Gx/8021B	
Benzene	0.677	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	3.33	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	121%	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	102%	50-150			"	"	"	"	
TB-2523(B1B0294-05) Water Sampled: 02/14/01 12:00 Received: 02/15/01 15:40									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1B19003	02/19/01	02/19/01	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	98.1%	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	102%	50-150			"	"	"	"	

North Creek Analytical-Bothell

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Secor-Redmond
POBox230,12034-134thCtNESte102
RedmondWA,98073

Project: EquilonSAP#121007
ProjectNumber: 001.01169.500
ProjectManager: MarcSauze

Reported:
02/27/0112:30

VolatilePetroleumProductsandBTExbyNWTPH-GxandEPA8021B-QualityControl
NorthCreekAnalytical-Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch1B19003:Prepared02/19/01UsingEPA5030B(P/T)

Blank(1B19003-BLK1)

GasolineRangeHydrocarbons	ND	50.0	ug/l						
Benzene	ND	0.500	"						
Toluene	ND	0.500	"						
Ethylbenzene	ND	0.500	"						
Xylenes(total)	ND	1.00	"						
Surrogate:4-BFB(FID)	43.9		"	48.0		91.5	50-150		
Surrogate:4-BFB(PID)	47.1		"	48.0		98.1	50-150		

Blank(1B19003-BLK2)

GasolineRangeHydrocarbons	ND	50.0	ug/l						
Benzene	ND	0.500	"						
Toluene	ND	0.500	"						
Ethylbenzene	ND	0.500	"						
Xylenes(total)	ND	1.00	"						
Surrogate:4-BFB(FID)	42.9		"	48.0		89.4	50-150		
Surrogate:4-BFB(PID)	46.5		"	48.0		96.9	50-150		

LCS(1B19003-BS1)

GasolineRangeHydrocarbons	460	50.0	ug/l	500		92.0	70-130		
Surrogate:4-BFB(FID)	48.2		"	48.0		100	50-150		

LCS(1B19003-BS2)

GasolineRangeHydrocarbons	488	50.0	ug/l	500		97.6	70-130		
Surrogate:4-BFB(FID)	54.6		"	48.0		114	50-150		

Duplicate(1B19003-DUP1)

Source:B1B0297-02

GasolineRangeHydrocarbons	1810	100	ug/l		1810			0.00	25
Surrogate:4-BFB(FID)	68.5		"	48.0		143	50-150		

NorthCreekAnalytical-Bothell

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Reported:
02/27/0112:30

VolatilePetroleumProductsandBTExbyNWTPH-GxandEPA8021B-QualityControl
NorthCreekAnalytical-Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch1B19003:Prepared02/19/01UsingEPA5030B(P/T)									
Duplicate(1B19003-DUP2)					Source:B1B0297-08				
GasolineRangeHydrocarbons	ND	50.0	ug/l		ND		31.6	25	Q-05
Surrogate:4-BFB(FID)	34.3		"	48.0		71.5	50-150		
MatrixSpike(1B19003-MS1)					Source:B1B0297-05				
Benzene	9.41	0.500	ug/l	10.0	ND	93.4	70-130		
Toluene	9.71	0.500	"	10.0	ND	95.5	70-130		
Ethylbenzene	10.2	0.500	"	10.0	ND	102	70-130		
Xylenes(total)	30.3	1.00	"	30.0	ND	100	70-130		
Surrogate:4-BFB(PID)	51.8		"	48.0		108	50-150		
MatrixSpikeDup(1B19003-MSD1)					Source:B1B0297-05				
Benzene	9.36	0.500	ug/l	10.0	ND	93.0	70-130	0.533	15
Toluene	9.77	0.500	"	10.0	ND	96.1	70-130	0.616	15
Ethylbenzene	10.2	0.500	"	10.0	ND	102	70-130	0.00	15
Xylenes(total)	30.1	1.00	"	30.0	ND	99.5	70-130	0.662	15
Surrogate:4-BFB(PID)	50.7		"	48.0		106	50-150		

NorthCreekAnalytical-Bothell

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Kirk Gendron For Jeanne Garthwaite, Project Manager

Page 5 of 6

Secor-Redmond
PO Box 230, 12034-134th Ct NE Ste 102
Redmond WA, 98073

Project: Equilon SAP#121007
Project Number: 001.01169.500
Project Manager: Marc Sauze

Reported:
02/27/01 12:30

Notes and Definitions

Q-05 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.

R-03 The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sampler results reported on a dry weight basis

RPD Relative Percent Difference