

RELEASE 369379

SECOR
International Incorporated

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DEPT OF ECOLOGY

TEXACO 63-232-0395
TUKWILA

June 18, 2002

Mr. Tony Palagyi
Shell Oil Products U.S.
10602 NE 38th Place
Kirkland, Washington 98033

Subject: Semi-Annual Groundwater Monitoring - Second Quarter 2002
Texaco-Branded Station SAP No. 120598
13138 Interurban Avenue South, Tukwila, Washington
SECOR PN: 01OT.50062.02

Dear Mr. Palagyi:

Four groundwater monitoring wells were monitored, and three wells were sampled by SECOR at the referenced site on May 7, 2002. Well AGW-2 was inaccessible and could not be monitored. No free product was detected in any of 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).

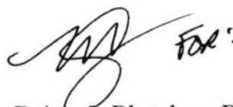
SECOR's field procedures were performed in accordance with SECOR's Standard Operating Procedures for quality assurance and quality control, as outlined in SECOR's December 27, 2000 Unit Price Bid.

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

 Fax:

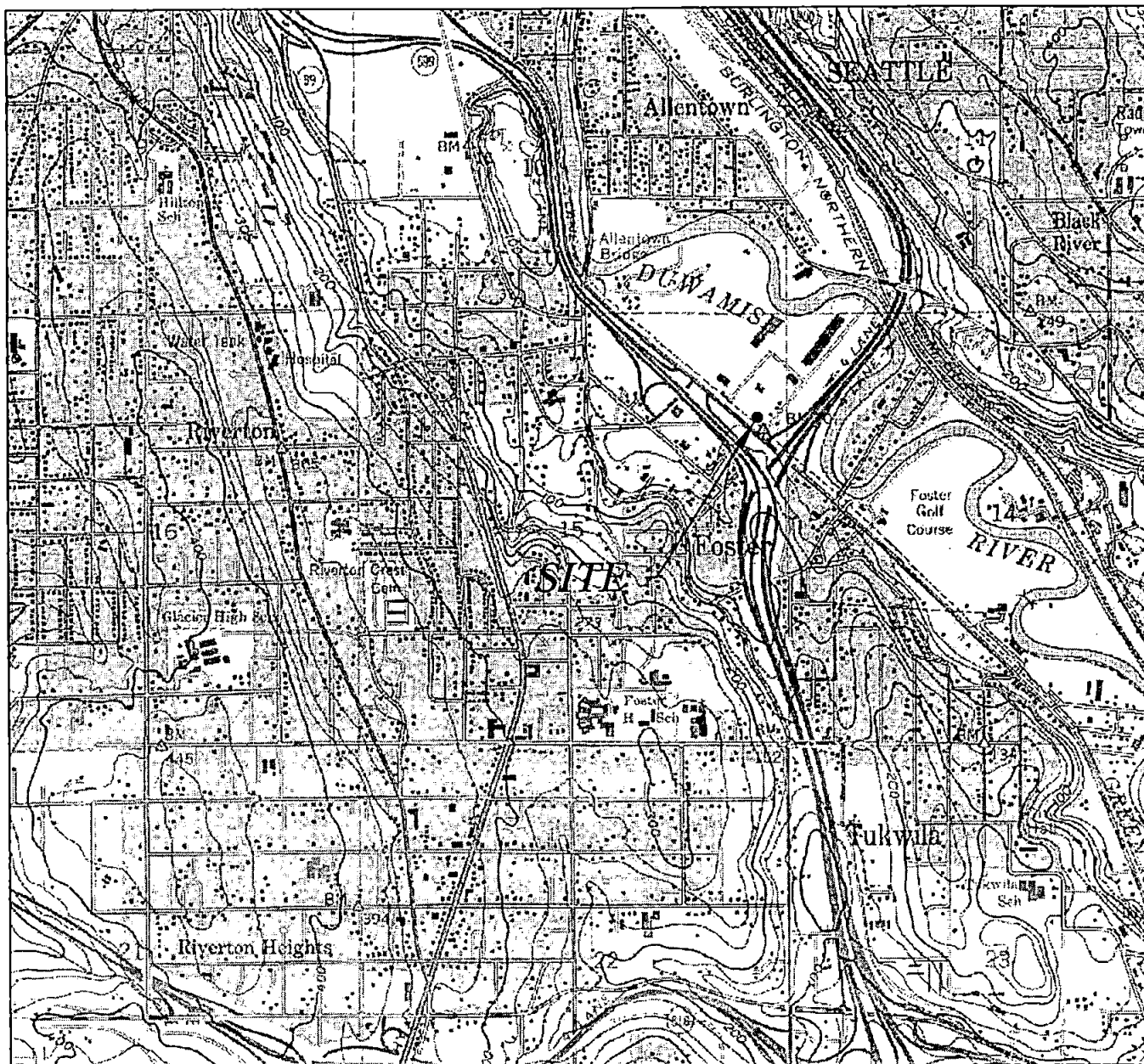
Brian J. Pletcher, R.G.
Senior Geologist

MS/BJP:KM
Attachments (4)

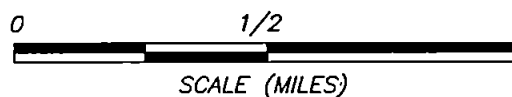
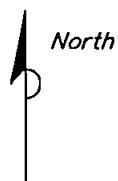
cc: John Bails, Washington State Department of Ecology

USA # 4454

ATTACHMENT 1
FIGURES



WASHINGTON



SCALE (MILES)

REFERENCE: USGS 7.5 MINUTE QUADRANGLE; DES MOINES, WASHINGTON; 1978

SECOR
International Incorporated

12034 134th COURT NE, SUITE 102
REDMOND, WASHINGTON 98052
(425) 372-1600

SITE LOCATION MAP

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

FIGURE:

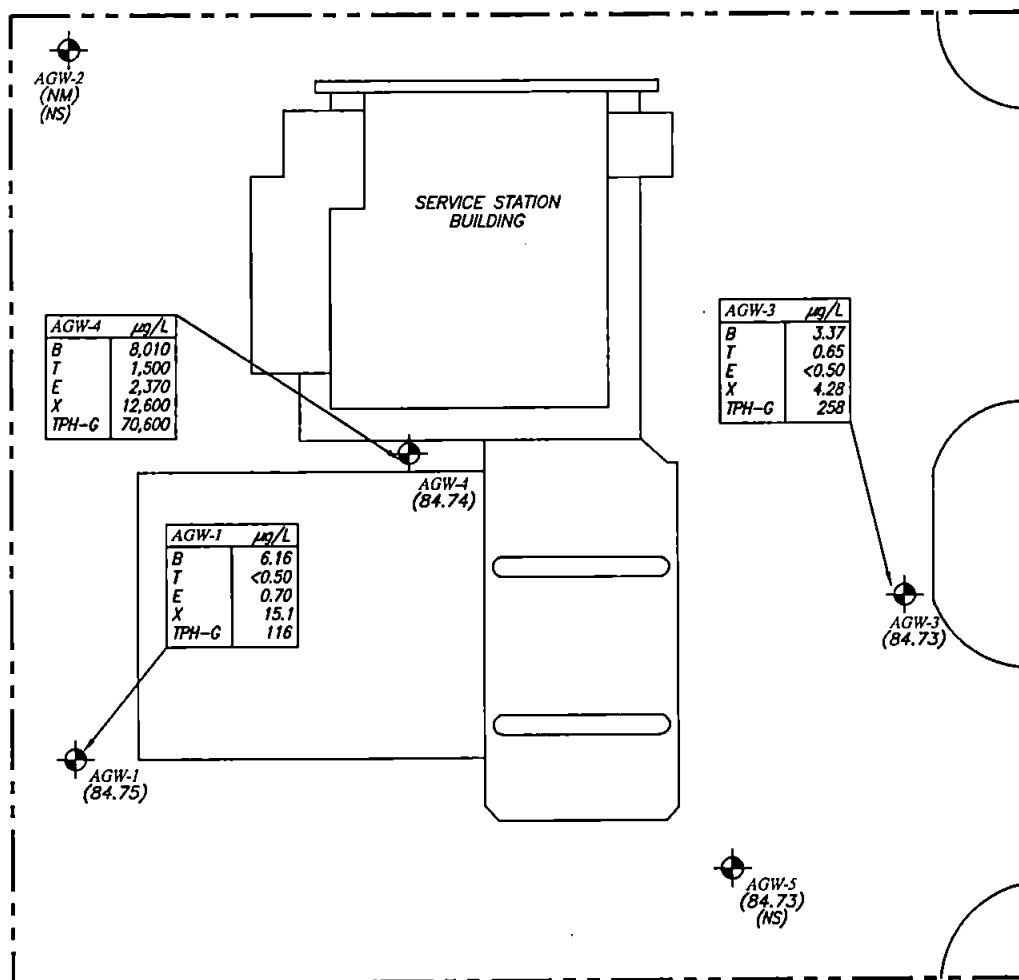
1

JOB#: 01OT.50062.02.0001 APPR:

DWN: SES

DATE: 8/15/00

DWG: 120598M



LEGEND:

- SUBJECT PROPERTY LINE BOUNDARY
- AGW-S GROUNDWATER MONITORING WELL LOCATION
- (83.20) RELATIVE GROUNDWATER ELEVATION (FEET)

ANALYTE

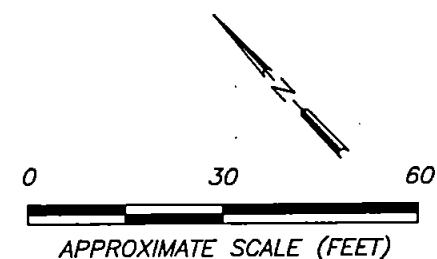
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
TPH-G	GASOLINE

(NS) NOT SAMPLED

(NM) NOT MEASURED

NOTES

GROUNDWATER GRADIENT INDETERMINATE



SECOR
International Incorporated

GROUNDWATER ELEVATIONS CONTOURS AND
ANALYTICAL RESULTS (5/7/02)
TEXACO STATION SAP NO. 120598
13138 INTERURBAN AVENUE SOUTH
TUKWILA, WASHINGTON

FIGURE:

2

JOB#: 010T.50062.02.0010 APPR: DWN: SES DATE: 6/602

DWG: 120598_202

ATTACHMENT 2
TABLES

Table 1. 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)	DTP (feet)	FPT (feet)	SWL (feet)	Change in SWL (feet)
AGW-1 96.38	4/23/97 7/14/97 10/22/97 1/22/98 4/9/98 7/14/98 5/11/99 11/3/99 5/13/00 10/21/00 4/12/01 10/9/01 5/7/02	9.63 12.20 12.31 10.30 12.04 12.51 13.17 14.49 11.90 12.55 11.81 13.23 11.63	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	86.75 84.18 84.07 86.08 84.34 83.87 83.21 81.89 84.48 83.83 84.57 83.15 84.75	-- -2.57 -0.11 2.01 -1.74 -0.47 -0.66 -1.32 2.59 -0.65 0.74 -1.42 1.60
AGW-2 95.47	4/23/97 7/14/97 10/22/97 1/22/98 4/9/98 7/14/98 5/11/99 11/3/99 5/13/00 10/21/00 4/12/01 10/9/01 5/7/02	9.76 11.30 11.36 9.40 11.18 11.67 12.25 13.53 11.03 11.64 10.92 12.35 9.76	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	85.71 84.17 84.11 86.07 84.29 83.80 83.22 81.94 84.44 83.83 84.55 83.12 85.71	-- -1.54 -0.06 1.96 -1.78 -0.49 -0.58 -1.28 2.50 -0.61 0.72 -1.43 --
AGW-3 96.39	4/23/97 7/14/97 10/22/97 1/22/98 4/9/98 7/14/98 5/11/99 11/3/99 5/13/00 10/21/00 4/12/01 10/9/01 5/7/02	9.50 12.28 12.35 10.25 12.02 12.49 13.18 14.60 9.01 12.51 11.72 13.19 11.66	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	86.89 84.11 84.04 86.14 84.37 83.90 83.21 81.79 87.38 83.88 84.67 83.20 84.73	-- -2.78 -0.07 2.10 -1.77 -0.47 -0.69 -1.42 5.59 -3.50 0.79 -1.47 1.53

Table 1. 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	4/23/97	10.95	0.00	0.00	86.66	--
	7/14/97	13.70	0.00	0.00	83.91	-2.75
	10/22/97	13.43	0.00	0.00	84.18	0.27
	1/22/98	11.53	0.00	0.00	86.08	1.90
	4/9/98	13.58	0.00	0.00	84.03	-2.05
	7/14/98	14.02	0.00	0.00	83.59	-0.44
	5/11/99	14.46	0.00	0.00	83.15	-0.44
	11/3/99	15.88	0.00	0.00	81.73	-1.42
	5/13/00	13.14	0.00	0.00	84.47	2.74
	10/21/00	13.81	0.00	0.00	83.80	-0.67
	4/12/01	13.00	0.00	0.00	84.61	0.81
	10/9/01	14.48	0.00	0.00	83.13	-1.48
	5/7/02	12.87	0.00	0.00	84.74	1.61
AGW-5 97.35	4/23/97	10.52	0.00	0.00	86.83	--
	7/14/97	13.25	0.00	0.00	84.10	-2.73
	10/22/97	13.35	0.00	0.00	84.00	-0.10
	1/22/98	11.20	0.00	0.00	86.15	2.15
	4/9/98	13.00	0.00	0.00	84.35	-1.80
	7/14/98	13.48	0.00	0.00	83.87	-0.48
	5/11/99	14.19	0.00	0.00	83.16	-0.71
	11/3/99	15.56	0.00	0.00	81.79	-1.37
	5/13/00	12.87	0.00	0.00	84.48	2.69
	10/21/00	13.45	0.00	0.00	83.90	-0.58
	4/12/01	12.71	0.00	0.00	84.64	0.74
	10/9/01	14.17	0.00	0.00	83.18	-1.46
	5/7/02	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.

Table 2. 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	4/23/97	728	113	0.65	47.5	439	--
	7/14/97	425	53	ND	44.6	960	--
	10/22/97	320	31.1	ND	13.9	ND	--
	1/22/98	752	53.5	ND	28.1	ND	--
	4/9/98	371	58.1	ND	ND	ND	--
	7/14/98	309	16.8	ND	9.51	ND	--
	5/11/99	429	8.75	<5.0	22.9	<500	<50
	11/3/99	207	1.78	<0.5	7.86	75.1	--
	5/13/00	262	0.96	0.87	8.15	<250	--
	10/21/00	130	<2.50	<2.50	8.12	362	--
	4/12/01	55.3	<0.500	<0.500	2.08	120	<1.00
	10/9/01	1.91	<0.500	<0.500	6.34	96.0	<0.500
	5/7/02	6.16	<0.500	0.706	15.1	116	--
AGW-2	4/23/97	ND	ND	ND	ND	ND	--
	7/14/97	ND	ND	ND	ND	ND	--
	10/22/97	ND	ND	ND	ND	ND	--
	1/22/98	ND	ND	ND	ND	ND	--
	4/9/98	ND	ND	ND	ND	ND	--
	7/14/98	ND	ND	ND	ND	ND	--
	5/11/99	--	--	--	--	--	--
	11/3/99	--	--	--	--	--	--
	5/13/00	--	--	--	--	--	--
	10/21/00	--	--	--	--	--	--
	4/12/01	--	--	--	--	--	--
	10/9/01	--	--	--	--	--	--
	5/7/02	--	--	--	--	--	--
AGW-3	4/23/97	12.8	0.591	ND	6.76	ND	--
	7/14/97	38.9	1.6	0.504	18	363	--
	10/22/97	6.35	1.14	ND	11.4	83.9	--
	1/22/98	16.5	1.06	ND	5.68	65.9	--
	4/9/98	12.2	ND	ND	12.4	ND	--
	7/14/98	ND	1.24	ND	11.2	79.5	--
	5/11/99	5.65	0.93	<0.5	10.4	<50	<25
	11/3/99	<3.38	1.51	<0.5	3.79	72.1	--
	5/13/00	14.6	1.69	0.70	9.3	92.1	--
	10/21/00	<2.53	<0.660	<0.500	2.46	189	--
	4/12/01	0.978	0.752	<0.500	3.58	83.9	<1.00
	10/9/01	1.60	<0.500	<0.500	2.16	242	--
	5/7/02	3.37	0.651	<0.500	4.28	258	--

Table 2. 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	Ethylbenzene	Total Xylenes		
AGW-4	4/23/97	--	--	--	--	--	--
	7/14/97	--	--	--	--	--	--
	10/22/97	--	--	--	--	--	--
	1/22/98	--	--	--	--	--	--
	4/9/98	--	--	--	--	--	--
	7/14/98	--	--	--	--	--	--
	5/11/99	9,830	10,500	3,440	22,200	129,000	<2,500
	11/3/99	8,280	5,600	2,320	13,800	86,300	--
	5/13/00	9,000	4,550	2,560	15,100	74,300	--
	10/21/00	8,930	3,830	2,320	13,200	68,700	--
	4/12/01	4,090	634	1,070	5,650	28,100	<1.00
	10/9/01	9,570	4,200	3,520	20,900	100,000	<0.500
	5/7/02	8,010	1,500	2,370	12,600	70,600	--
AGW-5	4/23/97	ND	ND	ND	ND	ND	--
	7/14/97	ND	ND	ND	ND	ND	--
	10/22/97	ND	ND	ND	ND	ND	--
	1/22/98	ND	ND	ND	ND	ND	--
	4/9/98	ND	ND	ND	ND	ND	--
	7/14/98	ND	ND	ND	ND	ND	--
	5/11/99	--	--	--	--	--	--
	11/3/99	--	--	--	--	--	--
	5/13/00	--	--	--	--	--	--
	10/21/00	--	--	--	--	--	--
	4/12/01	--	--	--	--	--	--
	10/9/01	--	--	--	--	--	--
	5/7/02	--	--	--	--	--	--
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.

ATTACHMENT 4
FIELD FORMS

EQUIVA
No Purge Field Form
Washington Sites / 2002

Page of	SECOR Personnel		KS
Date / Quarter	5-7-02/2nd Qtr	EQUIVA SAP Number	120598
SECOR Job Number	010T.50062.02	Equiva Project Manager	TONY PALAGYI
Site Address	13138 INTERURBAN AVENUE, TUKWILA, WA		
No. of Wells Monitored	5	Weather	40% Cloud Cover
No. of Wells w/ Free Product	0	Temperature	67°F
No. of Wells Sampled	3	New Monument Gaskets Y/N	12-inch = / 8-inch =
No. of Samples Submitted	4	Monument Bolts Replaced Y/N	Size = / Total # =
Field Notes :			
11:00- Arrive @ Site.			
11:05- UNLOAD equipment, set up decon & notify the ATTENDANT of sampling event.			
11:20- monitor wells AGW-1, 2, 3, 4, 5.			
11:45- sample wells AGW-1, 3, 4.			
12:25- Collect Dup 13138 from well AGW-4 then decon, load equipment & complete the C.O.C & paperwork			
12:45- LEAVE SITE.			
Notes: could not monitor well AGW-2 due to A large green dumpster placed atop of well. Attempted to move but could not; too heavy.			
Monument Repairs: (photo/description)			

TEXACO CHAIN OF CUSTODY REPORT

TEXACO INFORMATION	
Facility Number:	
Project Manager:	TONY PALAGYI
Texaco Job #:	120528
Site Address:	13138 INTERURBAN AVENUE
City, State, Zip:	TUKWILA, WA.

CONSULTANT INFORMATION

Name: SECOR Project# 0107.50062.02

Address: 12034 134th Court NE, Suite 102
Redmond, WA. 98073

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

Project Manager: MARC SAUZE

Sample Collection by: Len Scott

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. AGW-1	5-7-02/12:05	W	2
2. AGW-3	11:55		2
3. AGW-4	12:15		2
4. Dup 13138	12:25		2
5. Trip blank	✓	✓	1
6.			
7.			
8.			
9.			
10.			

[illegible][illegible]

10.	Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time
1.	<i>[Signature]</i>	<i>[Signature]</i>	SECOR			
2.						
3.						

Additional Comments:

TEXACO Groundwater Monitoring and Sampling Record

TEXACO Facility ID# _____

DATE: 5-7-02

Site Address: 13138 Interurban Avenue

City, State: Tukwila, WA.

Field Personnel: KS

Well Number	A6W-1	A6W-2	A6W-3	A6W-4	A6W-5	
TIME	11:36	11:28	11:32	11:41	11:24	
TD (ft)						
- DTW (ft)						
= WC (ft)						
20% x WC =						
+DTW = 80% DTW						
Well Diam. (in)	4"	4"	4"	4"	4"	
x Multiplier: 2" = 0.5 4" = 2.0 6" = 4.4 = Purge Volume		could not monitor due to ground disturbance over well				
Actual Purge Volume						
Purge Method (B or P)						
DTW when sampled > 80%? (Y/N)						
If No, DTW after 2 hours:						
Sample ID	A6W-1		A6W-3	A6W-4	—	
Sample time	12:05		11:55	12:15		
DUPLICATE				12:25 Dup 12:15	—	
Sheen (Y/N) odor	N/yes		N/yes	N/yes	—	
Free Product (Y/N)						
DTW	11.63		11.66	12.07	12.62	
- 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.

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 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 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/USA, 98073

Project: Equilon SAP #120598
Project Number: 010T.50062.02
Project Manager: Marc Sauze

Reported:
05/21/02 17:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AGW-1	B2E0297-01	Water	05/07/02 12:05	05/09/02 15:00
AGW-3	B2E0297-02	Water	05/07/02 11:55	05/09/02 15:00
AGW-4	B2E0297-03	Water	05/07/02 12:15	05/09/02 15:00
Dup 13138	B2E0297-04	Water	05/07/02 12:25	05/09/02 15:00
Trip Blank	B2E0297-05	Water	05/07/02 12:00	05/09/02 15:00

North Creek Analytical - Bothell

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.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 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/USA, 98073

Project: Equilon SAP #120598
Project Number: 010T.50062.02
Project Manager: Marc Sauze

Reported:
05/21/02 17:22

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
AGW-1 (B2E0297-01) Water Sampled: 05/07/02 12:05 Received: 05/09/02 15:00									
Gasoline Range Hydrocarbons	116	50.0	ug/l	1	2E20007	05/20/02	05/20/02	NWTPH-Gx/8021B	
Benzene	6.16	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	0.706	0.500	"	"	"	"	"	"	
Xylenes (total)	15.1	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	75.2 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	83.5 %	62-125			"	"	"	"	
AGW-3 (B2E0297-02) Water Sampled: 05/07/02 11:55 Received: 05/09/02 15:00									
Gasoline Range Hydrocarbons	258	50.0	ug/l	1	2E20007	05/20/02	05/20/02	NWTPH-Gx/8021B	
Benzene	3.37	0.500	"	"	"	"	"	"	
Toluene	0.651	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	4.28	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	87.1 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	81.7 %	62-125			"	"	"	"	
AGW-4 (B2E0297-03) Water Sampled: 05/07/02 12:15 Received: 05/09/02 15:00									
Gasoline Range Hydrocarbons	70600	10000	ug/l	200	2E20007	05/20/02	05/20/02	NWTPH-Gx/8021B	
Benzene	8010	100	"	"	"	"	"	"	
Toluene	1500	100	"	"	"	"	"	"	
Ethylbenzene	2370	100	"	"	"	"	"	"	
Xylenes (total)	12600	200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	92.9 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	86.2 %	62-125			"	"	"	"	

North Creek Analytical - Bothell

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.

Jeff Gerdes, Project Manager

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Environmental Laboratory Network

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Secor-Redmond

PO Box 230, 12034 - 134th Ct NE Ste 102

Redmond WA/USA, 98073

Project: Equilon SAP #120598

Project Number: 010T.50062.02

Project Manager: Marc Sauze

Reported:

05/21/02 17:22

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B

North Creek Analytical - Bothell

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Dup 13138 (B2E0297-04) Water Sampled: 05/07/02 12:25 Received: 05/09/02 15:00									
Gasoline Range Hydrocarbons	74300	10000	ug/l	200	2E20007	05/20/02	05/20/02	NWTPH-Gx/8021B	
Benzene	9410	100	"	"	"	"	"	"	
Toluene	1760	100	"	"	"	"	"	"	
Ethylbenzene	2820	100	"	"	"	"	"	"	
Xylenes (total)	14800	200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	83.8 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	86.9 %	62-125			"	"	"	"	
Trip Blank (B2E0297-05) Water Sampled: 05/07/02 12:00 Received: 05/09/02 15:00									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	2E20007	05/20/02	05/20/02	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	88.3 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	86.9 %	62-125			"	"	"	"	

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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Project Number: 010T.50062.02
Project Manager: Marc Sauze

Reported:
05/21/02 17:22

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 2E20007: Prepared 05/20/02 Using EPA 5030B (P/T)

Blank (2E20007-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)	40.1		"	48.0		83.5	62-139			
Surrogate: 4-BFB (PID)	41.2		"	48.0		85.8	62-125			

LCS (2E20007-BS1)

Gasoline Range Hydrocarbons	508	50.0	ug/l	500		102	80-120			
Benzene	6.38	0.500	"	6.01		106	80-120			
Toluene	29.8	0.500	"	35.8		83.2	80-120			
Ethylbenzene	8.00	0.500	"	8.37		95.6	80-120			
Xylenes (total)	37.9	1.00	"	41.4		91.5	80-120			
Surrogate: 4-BFB (FID)	47.2		"	48.0		98.3	62-139			
Surrogate: 4-BFB (PID)	39.2		"	48.0		81.7	62-125			

LCS Dup (2E20007-BSD1)

Gasoline Range Hydrocarbons	489	50.0	ug/l	500		97.8	80-120	3.81	25	
Benzene	7.07	0.500	"	6.01		118	80-120	10.3	40	
Toluene	35.5	0.500	"	35.8		99.2	80-120	17.5	40	
Ethylbenzene	9.20	0.500	"	8.37		110	80-120	14.0	40	
Xylenes (total)	45.4	1.00	"	41.4		110	80-120	18.0	40	
Surrogate: 4-BFB (FID)	38.6		"	48.0		80.4	62-139			
Surrogate: 4-BFB (PID)	38.8		"	48.0		80.8	62-125			

Matrix Spike (2E20007-MS1)

Source: B2E0298-01

Gasoline Range Hydrocarbons	474	50.0	ug/l	500	ND	94.8	70-130			
Benzene	6.95	0.500	"	6.01	ND	109	80-120			
Toluene	33.8	0.500	"	35.8	ND	94.4	75-117			
Ethylbenzene	8.98	0.500	"	8.37	ND	107	80-120			
Xylenes (total)	43.8	1.00	"	41.4	ND	106	80-120			
Surrogate: 4-BFB (FID)	40.9		"	48.0		85.2	62-139			
Surrogate: 4-BFB (PID)	39.5		"	48.0		82.3	62-125			

North Creek Analytical - Bothell

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Project Number: 010T.50062.02
Project Manager: Marc Sauze

Reported:
05/21/02 17:22

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 2E20007: Prepared 05/20/02 Using EPA 5030B (P/T)

Matrix Spike Dup (2E20007-MSD1)

Source: B2E0298-01

Gasoline Range Hydrocarbons	445	50.0	ug/l	500	ND	89.0	70-130	6.31	25	
Benzene	5.86	0.500	"	6.01	ND	90.6	80-120	17.0	40	
Toluene	28.7	0.500	"	35.8	ND	80.2	75-117	16.3	40	
Ethylbenzene	7.46	0.500	"	8.37	ND	89.1	80-120	18.5	40	
Xylenes (total)	36.4	1.00	"	41.4	ND	87.9	80-120	18.5	40	
Surrogate: 4-BFB (FID)	47.2		"	48.0		98.3	62-139			
Surrogate: 4-BFB (PID)	39.3		"	48.0		81.9	62-125			

North Creek Analytical - Bothell

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Project Number: 010T.50062.02
Project Manager: Marc Sauze

Reported:
05/21/02 17:22

Notes and Definitions

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

Jeff Gerdes, Project Manager

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North Creek Analytical, Inc.
Environmental Laboratory Network

TEXACO CHAIN OF CUSTODY REPORT BZE0297

TEXACO INFORMATION

Facility Number:

Project Manager: TONY PALAGYI

Texaco Job #: 120528

Site Address: 13138 INTERURBAN AVENUE
City, State, Zip: TUKWILA, WA.

CONSULTANT INFORMATION

Name: SECOR Project#: 0107.50062.02

Address: 12034 134th Court NE, Suite 102
Redmond, WA. 98073

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

Project Manager: MARC SAUZE

Sample Collection by: [Signature]

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 CONTAINERS
1. <u>AGW-1</u>	<u>5-7-02/12:05</u>	<u>W</u>	<u>2</u>
2. <u>AGW-3</u>	<u>11:55</u>	<u>↓</u>	<u>2</u>
3. <u>AGW-4</u>	<u>12:15</u>	<u>↓</u>	<u>2</u>
4. <u>Dup 13138</u>	<u>12:25</u>	<u>↓</u>	<u>2</u>
5. <u>Trip blank</u>	<u>✓</u>	<u>✓</u>	<u>1</u>
6.			
7.			
8.			
9.			
10.			

☐ AK ☐ OR ☐ WA ☒ NW Series															
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 STM or 8310	Lead: Total or Dissolved	TCLP or RCRA Metals (8)		
			✓												
			✓												
			✓												
			✓												
			✓												

NCA SAMPLE NUMBER	
<u>BZE0297-01</u>	
<u>02</u>	
<u>03</u>	
<u>04</u>	
<u>05</u>	

Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time	Additional Comments:
1. <u>[Signature]</u>	<u>SECOR</u>	<u>5/9/02 10:10</u>	<u>[Signature]</u>	<u>NCA</u>	<u>5/9/02 10:10</u>	<u>10.50 W/O</u>
2. <u>[Signature]</u>	<u>SECOR</u>	<u>5/9/02 15:10</u>	<u>[Signature]</u>	<u>NCA</u>	<u>5/9/02 15:10</u>	
3. <u>[Signature]</u>	<u>SECOR</u>	<u>5/9/02 15:10</u>	<u>[Signature]</u>	<u>NCA</u>	<u>5/9/02 15:10</u>	