

18912 North Creek Parkway • Suite 100 • Bothell, Washington 98011-8016 • (206) 485-5000 • Fax (206) 486-9766

September 23, 1993 Project 0368-013.03

Mr. Mike Condon Texaco Environmental Services 3400 188th Street SW, Suite 630 Lynnwood, Washington 98037

Re: Groundwater Sampling Report Texaco Service Station 8701 Greenwood Avenue North Seattle, Washington

Dear Mr. Condon:

DEPARTMENT OF ECOLOGY NWRO/TCP TANK UNIT #2298 INTERIM CLEANUP REPORT SITE CHARACTERIZATION FINAL CLEANUP REPORT OTHER. AFFECTED MEDIA: SOIL Ø OTHER. GW INSPECTOR (INIT.) BN DATE !

EMCON Northwest, Inc. (EMCON), is pleased to present the results of the groundwater sampling and monitoring activities conducted June 9, 1993, at the Texaco service station at 8701 Greenwood Avenue North in Seattle, Washington. Work was performed in accordance with the proposal for groundwater monitoring dated March 15, 1993.

BACKGROUND

The site is an active gasoline service station at 8701 Greenwood Avenue North in Seattle, Washington (Figure 1). Groundwater monitoring wells were installed on the subject site in March 1991. A site plan is included as Figure 2.

This report presents the findings of the June 9, 1993, groundwater sampling event. A copy of the spreadsheet tabulating results of historical groundwater analyses and depth to water information is included in Appendix A.

GROUNDWATER CONDITIONS

Depth to groundwater was measured in each well on June 9, 1993. Depth-to-water measurements were converted to relative groundwater elevations using previous survey data for the top of each well casing. Depth-to-water measurements and relative groundwater elevation data are provided on Table 1. A relative groundwater elevation (potentiometric) map is included as Figure 2.

Previous boring log data indicate that groundwater under the site is confined beneath a peat and silt layer that extends a maximum depth of approximately 10 to 15 feet below ground surface. The groundwater gradient was generally toward the west on June 9,

DEPARTMENT OF ECOLOGY

INTERIM CLEANUP REPORT

SITE CHARACTERIZATION

FINAL CLEANUP REPORT

OTHER

O

Independent Action Report Update Site Name: Pexaco Stat. on #632320037 Inc. #: 2298 Date of Report: 9/23/93 County: King Date Report Rec'd: 10/26/93 Reviewed by: R. Nye Comments (please include: free prod., tank info., media, contaminant migration, GW conc. trends, PCS treated/fate?): Report Documents Sampling From 4 wells for GW values TPH G-D-O., Lead, BIEX. done 6/93- TPHG, BIEX levels > MICA In all wells Confamment levels declining Since 11/91 all wells, but not chara yet. IPH G-BIEX levels increased in MW-4 Ath. buted to small leak from turbine. GW 1-2 GH. deep, Flow >W

Mr. Mike Condon September 23, 1993 Page 2

1993. Although the general flow direction is toward the west, possible mounding of groundwater could occur in the tank basin. Water levels measured on June 9, 1993, were slightly higher than those measured on March 26, 1993.

GROUNDWATER SAMPLING

Groundwater samples were collected from monitoring wells AGW-1, AGW-2, AGW-4, and AGW-5 on June 9, 1993. Prior to sampling, the depth-to-groundwater was measured to the nearest 0.01 foot in each well using a Solinst™, depth-to-water probe. No floating product was observed in any of the wells.

At least three casing volumes of groundwater were purged with a suction pump before collecting groundwater samples from monitoring wells AGW-1, AGW-2, and AGW-5. Because groundwater recovery in monitoring well AGW-4 was slow, a sample was collected after two purged casing volumes.

Groundwater temperature, pH, and specific conductance were measured after each purged casing volume. These data, recorded on the Field Sampling Data Sheets, are provided in Appendix A. Groundwater samples from monitoring wells AGW-1, AGW-2, and AGW-5 were collected when these parameters were within ± 10 percent of the previous reading. These parameters did not stabilize in monitoring well AGW-4. Due to slow groundwater recovery in this well, a groundwater sample was collected after two purged casing volumes.

Groundwater samples were collected using disposable PVC bailers. Nylon line was used to lower the bailer, and new line and a new bailer were used for each well. Samples were transferred to laboratory-supplied containers, stored in a chilled cooler, and transported under standard chain-of-custody procedures to Columbia Analytical Services, Inc., in Bothell, Washington, for analyses.

LABORATORY ANALYSES

Groundwater samples from all wells were submitted for analyses of total petroleum hydrocarbons (TPH) as gasoline by Washington State Department of Ecology Method WTPH-G, for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Methods 5030/8020, and for total lead by EPA Method 7421. A duplicate sample was submitted for analyses for TPH as gasoline, BTEX, and total lead. A field blank was submitted for analyses of TPH as gasoline and BTEX. Groundwater samples from AGW-2 and AGW-4 were also analyzed for total petroleum hydrocarbons as diesel and oil by Washington State Department of Ecology Method WTPH-D (extended). A

Mr. Mike Condon September 23, 1993 Page 3

composite sample of the purged groundwater was analyzed for total organic halides by EPA Method 9020 to characterize the purged water for disposal.

LABORATORY RESULTS

A review of laboratory results indicates that groundwater samples collected from AGW-1, AGW-2, and AGW-4 contained benzene, ethylbenzene, total xylenes, and TPH as gasoline concentrations that exceeded MTCA Method A Cleanup Levels. Groundwater samples collected from AGW-4 also exceeded the MTCA Method A Cleanup Levels for TPH as diesel and toluene. TPH as oil concentrations were not detected above method reporting limits in samples collected from AGW-2 and AGW-4. TPH as diesel concentrations in the groundwater sample collected from AGW-2 were not detected above method reporting limits. Total lead concentrations in the groundwater samples collected from the four monitoring wells were below MTCA cleanup levels. Total organic halides were not detected in the composite sample of purged groundwater.

Results of groundwater analyses are presented in Table 2. Copies of the laboratory report and chain-of-custody form for the current sampling event are included in Appendix B.

CONCLUSIONS

In June 1993, TPH as gasoline, benzene, ethylbenzene, and xylene concentrations exceeded the MTCA Method A Cleanup Levels in groundwater samples collected from AGW-1, AGW-2, and AGW-4. The MTCA Method A Cleanup Levels for TPH as diesel and toluene were also exceeded in the sample collected from AGW-4. BTEX and TPH as gasoline were not detected above the method detection limits in the groundwater sample collected from AGW-5.

BTEX and TPH as gasoline concentrations in groundwater samples collected from AGW-1, AGW-2, and AGW-5 on June 9, 1993, have continued to decline compared to the concentrations reported for the August and November 1991 sampling events. Concentrations of BTEX and TPH as gasoline have increased in AGW-4 beginning with the March 6, 1993, sampling event. Time versus concentration plots for benzene in AGW-1, AGW-2, AGW-4, and AGW-5 are presented in Figures 3, 4, 5, and 6, respectively.

AGW-1, AGW-2, and AGW-4 are hydraulically downgradient of the existing underground storage tanks. In July 1991, a leak was reported in the turbine associated with the unleaded gasoline underground storage tank. It is likely that the BTEX and

Mr. Mike Condon September 23, 1993 Page 4

TPH as gasoline detected in groundwater samples beneath the site are associated with the turbine leak. The turbine was repaired, and no subsequent leaks have been reported.

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our scope of work with our client. This report is solely for the use of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

We appreciate the opportunity to be of assistance to you on this project. If you have any questions or if we can be of further assistance to you, please call.

Sincerely,

EMCON Northwest, Inc.

Patrick Brooks

Project Manager

Kevin G. Rattue, R.G., C.P.G.

Director, Petroleum Hydrocarbon Services

Tom Bodle Staff Geologist

Table 1

Survey and Groundwater Elevation June 9, 1993 Texaco Service Station 63-232-0037 8701 Greenwood Avenue North Seattle, Washington

Top PVC (ft)	Date Monitored	Depth to Water (ft)	Groundwater Elevation (ft)
47.36	06/09/93	0.42	46.94
47.59	06/09/93	1.06	46.53
47.97	06/09/93	2.66	45.31
49.47	06/09/93	1.95	47.52
	47.36 47.59 47.97 49.47	47.36 06/09/93 47.59 06/09/93 47.97 06/09/93 49.47 06/09/93	47.36 06/09/93 0.42 47.59 06/09/93 1.06 47.97 06/09/93 2.66

NOTE: Elevations are referenced to an on-site benchmark location; the benchmark was assigned an arbitrary elevation of 50 feet.

Table 2

Groundwater Sample Chemical Analyses June 9, 1993 Texaco Service Station 63-232-0037 8701 Greenwood Avenue North Seattle, Washington

			BTEX Compounds ^a (ppb)				Total Petro	oleum Hydro (ppm)	carbons ^b	
Sample Location	Sample Date	Sample ID	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Gasoline	Diesel	Oil	Total Lead ^c (ppb)
MTCA Method A Cl	eanup Levels ^d	<u> </u>	5	40	30	20	1	1	1	5
AGW-1	06/09/93	01-06-09-93	35.2	23	415	1,530	15	_		ND
AGW-2	06/09/93	02-06-09-93	108	18	164	666	3.27	ND	ND	3
AGW-2 (dup)	06/09/93	03-06-09-93	108	18	164	674	3.3	_		ND
AGW-4	06/09/93	04-06-09-93	61.1	64	108	533	1.9	1.06	ND	ND
AGW-5	06/09/93	05-06-09-93	ND	ND	ND	ND	ND	–	i –	ND
Field Blank	06/09/93	06-06-09-93	ND	ND -	ND	ND	ND	<u> </u>	<u> </u>	<u> </u>

NOTE: ND No detection.

Not analyzed.DupDuplicate sample.

Shaded cells Shaded cells indicate that values exceed MTCA Method A Cleanup Levels.

* The combined concentrations of total petroleum hydrocarbons as gasoline and diesel exceed the MTCA Method A Cleanup Level.

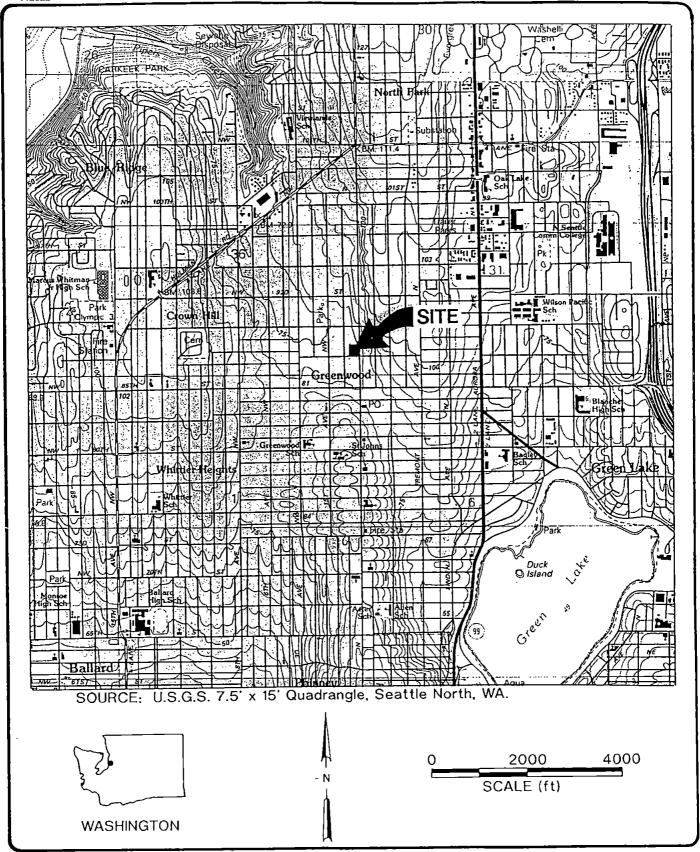
MTCA Model Toxics Control Act, Chapter 173-340 WAC, adopted February 1991.

Results for analyses of groundwater samples for BTEX were obtained using EPA Methods 5030/8020 and reported as μg/L (ppb).

Results for analyses of groundwater samples for total petroleum hydrocarbons as gasoline, diesel, and oil were obtained using Washington State Department of Ecology Methods WTPH-G and WTPH-D, respectively, reported as $\mu g/L$ (ppb), and presented here in ppm.

c Results for analyses of groundwater samples for total lead were obtained using EPA Method 7421 and reported as μg/L (ppb).

d Chapter 173-340 WAC, The Model Toxics Control Act Cleanup Regulations, Method A Cleanup Levels. Amended February 1991.

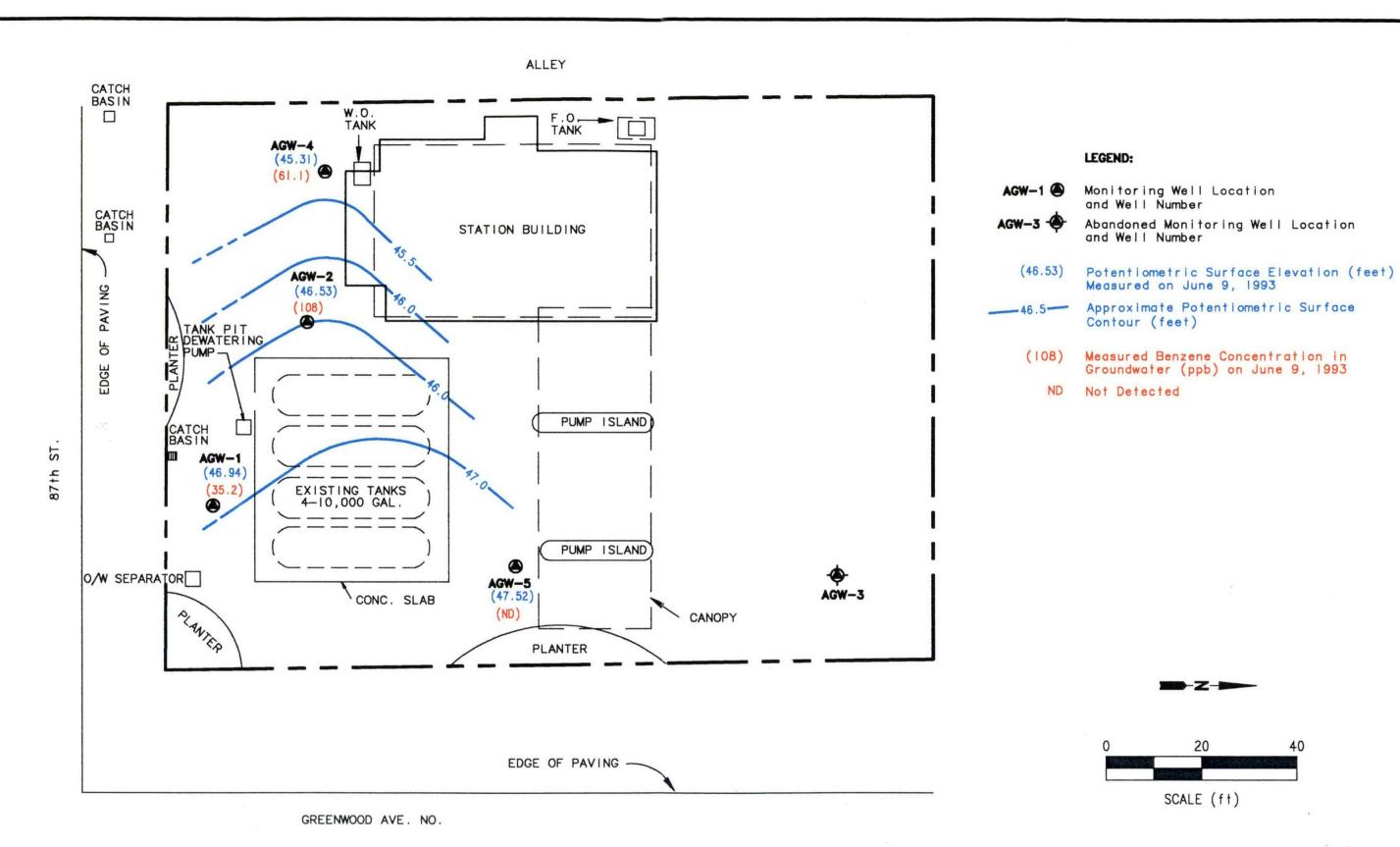




DATE 4/92
DWN. JA
APPR. PB
REVIS.
PROJECT NO.
0368-013.03

Figure 1 TEXACO SERVICE STATION 8701 GREENWOOD AVENUE NORTH SEATTLE, WASHINGTON

SITE LOCATION MAP





MLP DWN. REV. PROJECT NO. 0368-013.03

Figure 2 TEXACO SERVICE STATION 8701 GREENWOOD AVENUE NORTH SEATTLE, WASHINGTON POTENTIOMETRIC SURFACE MAP (6-09-93)

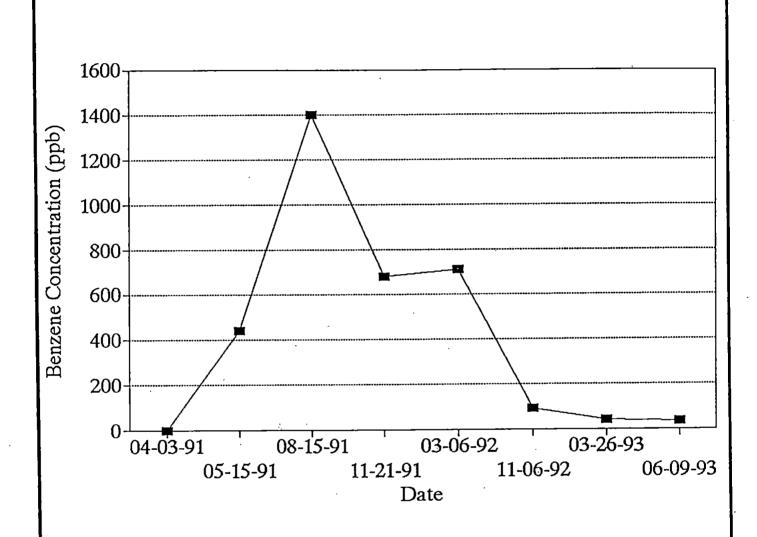
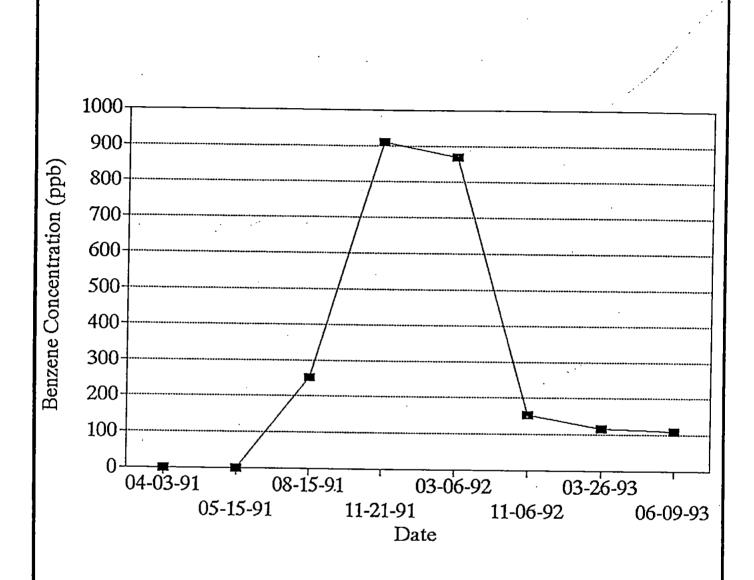






Figure 3
TEXACO SERVICE STATION 8701
GREENWOOD AVENUE NORTH
SEATTLE, WASHINGTON
BENZENE CONCENTRATION IN AGW-1



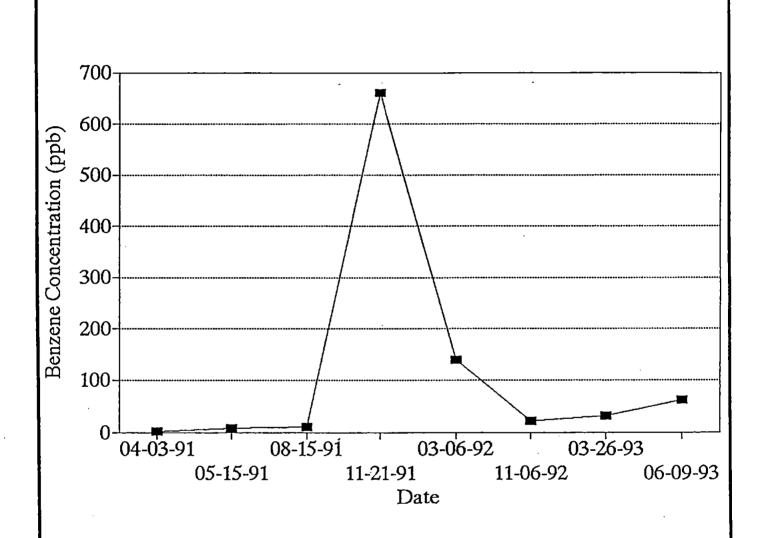




DATE 6-93
DWN. MLP
APPR. 78
REVIS.
PROJECT NO.
0368-013.03

Figure 4
TEXACO SERVICE STATION 8701
GREENWOOD AVENUE NORTH
SEATTLE, WASHINGTON
BENZENE CONCENTRATION IN AGW-2

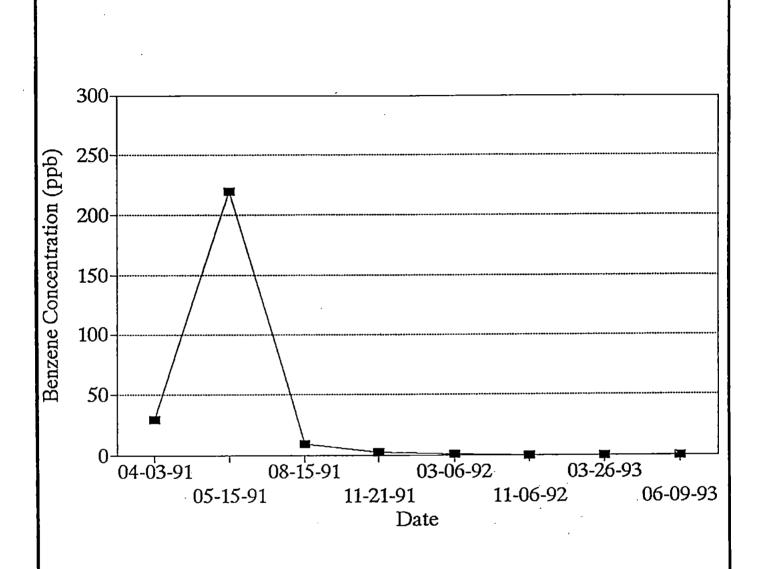






DATE 6-93
DWN, MLP
APPR, PB
REVIS.
PROJECT NO.
0368-013.03

Figure 5
TEXACO SERVICE STATION 8701
GREENWOOD AVENUE NORTH
SEATTLE, WASHINGTON
BENZENE CONCENTRATION IN AGW-4





DATE 6-93 DWN, MLP APPR, PD REVIS. PROJECT NO. 0368-013.03 Figure 6
TEXACO SERVICE STATION 8701
GREENWOOD AVENUE NORTH
SEATTLE, WASHINGTON
BENZENE CONCENTRATION IN AGW-5

APPENDIX A

HISTORICAL GROUNDWATER QUALITY DATA AND FIELD SAMPLING DATA

GROUNDWATER QUALITY SUMMARY TEXACO SERVICE STATION 63-232-0037 8701 GREENWOOD AVENUE NORTH SEATTLE, WASHINGTON

WELL NO./ DATE	(PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)	TPH-G (PPM)	TPH-D (PPM)	TPH-OIL (PPM)	LEAD (PPB)	DEPTH TO WATER (FT)
=====	======	:=====	.=========	.=====					•
AGW-1									0.40
04-03-91	ND	ND	ND	ND	ND	-	-	-	. 3 . 18
05-15-91	440	1000	92	670	_	_	_	ND	0.62
08-15-91	1400	7400	1000	8100	361		ND	140	0.70
11-21-91	680	6400	2000	13000	47 48	ND ND	ND	ND	0.47
03-06-92	710	3200	1400	8700 - 8200	40 37	140	-	ND	0,46
11-06-92	95,1	260	1400 397	1450	18.4	_	_	ND	0.49
03-26-93	42.8 35.2	27 23	415	1530	15	_		ND	0.42
06-09-93	35,2	20	410	,,,,,					
AGW-2									
04-03-91	ND	ND	ND	ND	-	-	-	-	3.43
05-15-91	ND	ND	ND	ND	- -	-,	_		- 1.65
08-15-91	250	220	15	86	1.03	- ND	10	ND -	1.30
11-21-91	, 910	1300	260	1200	7.3	ND ND	1.2 1.1	ND	1.14
03-06-92	870	3700	760	4900 804	24 3.23	ND		ND	1.18
11-06-92	152	98	175 149	642	3,23 3,39	0.34	ND	. ND	1,18
03-26-93	113	33 18	164	666	3.27	ND	ND	3	1.06
06-09-93	108	10	104	000	0.01	• • •			
AGW-3									
03-29-91	ND	ND	ND	ND	-	_	-	_	-
Well decom	missioned								
AGW-4								•	4.04
04-03-91	2.6	20	2.7	31	-	-	-	-	4.61
05-15-91	8.4	19	2.4	20			_	4	2.76
08-15-91	11	4		7	12	3.26 ND	2,04	-	2.45
11-21-91	660	700	21	133	3.5 ND	ND	0.8	ND	2.45
03-06-92	139	182	3	18 17	0.09		-	ND	3.21
11-06-92	20.9	13 35	4 51	246	0,99	0.48	ND	ND	3.03
03-26-93 06-09-93	31.8 61.1	64	108	533	1.9	1.06	ND	ND	2.66
AGW-5	01.1								
, wire									2.78
04-03-91	30	10	5	7	-	-	_		2.10
05-15-91	220	53	3.5	12	- 01	_	_	ND	1.53
08-15-91	9.4	ND	ND	ND ND	0.1 ND	ND	ND	- IND	2.40
11-21-91	2.5	ND	ND ND	ND ND	ND	ND	ND	ND	1.45
03-06-92	0.9	ND ND	ND ND	ND	ND	-	_	ND	2.27
11-06-92	ND ND	ND	ND ND	ND	ND	_	_	ND	2.05
03-26-93 06-09-93	ND	ND	: : <u>-</u>	ND	ND	_	-	ND	1.95
00-03-33	,10	140							



18912 North Creek Parkway, Suite 210 • Bothell, WA 98011 Office (206) 485-5000 • FAX (206) 486-9766

LOCATION/ADDRESS 8701 Granwood PROJECT NAME Textes Granwood CLIENT/CONTACT	Ave N, Scattle, WA	Well or Surface Site Numb Sample Designation Date, Time Weather	01 -06-09-93 6-9-93 11.15
HYDROLOGY MEASUREMENTS:	ation Date, Time <u>6-9-9-3 09:38</u>	Method Used (M.S. oil water inter-lace solins #Z	cope Number or Other)
WELL EVACUATION: 1 P.V = 12.37 qqllon Gallons Pore Volumes ~37.5 , 3 Surface Water Flow Speed NA	Method Used Oraphragm Pump compressor Artivan	Rinse Method	Date, Time G9-93 107 Date, Time N A
SAMPLING: Date, Sample Time Method 1741-6- (-9-93 d.b. = BTEX, 11:15 dspsable, bailer.	Volume Container Taken (ml) Type (feet) 2 x 40 via NA	Field	Sampler /
FIELD WATER QUALITY TESTS: Pore Vol. Number pH Conductivity 1 7.55 306 4.5 2 7.55 330 3 1.24 334 NOTES:	Temp (5° C) (0:39 A2. 42. 41. 5) 11:07 ~12	5 qqllon, 5 5	
one bott+house. missing	spened 08:36 g, replaced other bott as slightly sitty, cannot di	scem color (per	hars gray)
o beaved.	rusty odor + h.c. like?, supported blacksediment (<) p.v = 2.5 wait to recover, (mm) a	100 07:33 cleanor 14:49, la 100 08:05



18912 North Creek Parkway, Suite 210 • Bothell, WA 98011 Office (206) 485-5000 • FAX (206) 486-9766

PROJECT NAME TOXOGO GREENWOOD # 0368-013.03	Well or Surface Site Number AGW - 2 Sample Designation 02 - 06 - 09 - 93 Date, Time 6-9-93 12:36 Weather min , 50 - 60 5
HYDROLOGY MEASUREMENTS: (Nearest .01 ft.) Elevation Date, Time (P-9.3 09:40 (P-9.3 09:40 (P-9.3 09:40)	Method Used (M-Scope Number of Other) oil water intertace probe - not available soling the
WELL EVACUATION: 1 p.V = 12.14 qallon Gallons Pore Volumes Method Used 27.5 3 Compressor Oriven	Rinse Method Date, Time N A G-9-93 12;17 N A Date, Time N A
Surface Water Flow Speed NA Measurement Method	•
Date, Volume Container Tall Sample Time Method (mi) Type (fe THI-G (-9-93 d.b. = 2 x 10, vial NI) BTEX, 12:30 disposable, bailer. THI-D 1 1 poly m extended FIELD WATER QUALITY TESTS: Pore Vol. Number pH Conductivity Temp Ehr 1 6.5°C 11:47 A. 12:33 A.	detergent wash H20 rinse MeOH rinse
no free product besides surface content observed purge water: clear to slightly sitty, alive brown in strong musty sewage like odor observed suspended black sedimen any 1" sq total sheen observed in	Face; at 11:44 does appear to be sheen d ncolor hc-like? well dry at p.v. # 1.9 (1:55), wait to
Total # of Bottles:	SEA-400-01

SEA-400-01



Sweet-Edwards/EMCON, Inc.

18912 North Creek Parkway, Suite 210 • Bothell, WA 98011 Office (206) 485-5000 • FAX (206) 486-9766

	18912 N	Office (206) 48	5-5000 • FA	AX (206) 486-976	6	* 00	plicate	Ø		
LOCATION/AD PROJECT NAM CLIENT/CONT	νε <i>Ι</i> ≪	1 Groonwood aco Groenw	DAVE N,	Scattle, WA # 0368 -01.	3.o3 —	Well or Surfa Sample Desi Date, Time Weather	/_	03	-w-2 -06-09-9 9-93 ×10	
oth:	rest .01 ft.)		vation	Date, Ti 6993	me	oil water	odused (M.So INTERTORE	cope Number	or Other)	: :
WELL EVACU Gallon Surface Water	s Por	e Volumes	daph	ethod Used ragm pump Xasso Consular Measurement I	7. —	Rinse Metho		Date,	<u>-13</u>	: :
Sample IPH-G-, G BTEX,	Date, Time -1-93 (0:00"	Method d.b. = disposable bailer	Volume (ml) 2×40	Container Type vio	Depth Taken (feet) NA	Field Filtered (yes,no)	Preserva- tive HCI HN03	lced (yes,no)	Sampler Cleaning Method Non-Phosphi detergent wa H20 rinse MeOH rins Distilled H2 rinse	atic ash e
FIELD WATE Pore Vol. Number 1 2 3	pH	Conductivity	Ten	time		gallon,				·
NOTES:	•	See Al	SW-2 - detail	Field S	impling.	Jalq Sh	ee -			
								g M		
Total # of B	ottles: <u>3</u>					Signati	ure:	Bd.ll_	SEA-40	0-0



18912 North Creek Parkway, Suite 210 • Bothell, WA 98011 Office (206) 485-5000 • FAX (206) 486-9766

LOCATION/ADDRESS 8701 Granwa	d Ave N South WA	Well or Surface Site Num Sample Designation	04 -06-09-93
PROJECT NAME	NOOC) # 0368-013.03	Date, Time Weather	
CLIENT/CONTACT			MIN SNA TOO
HYDROLOGY MEASUREMENTS: 4" (Nearest .01 ft.) Ele	Povation Date, Time	Method Used (M. oil water interto solinet (#12)	Scope Number or Other)
WELL EVACUATION: 1 p.V = 11.13 qqlon Gallons Pore Volumes 33.5 2	Method Used Opphragm DUMD compressor Orium	Rinse Method	Date, Time G-9-93
Surface Water Flow Speed NA	Measurement Method	NIA	Date, Time NA
SAMPLING:		-	
Date, Sample Time Method 174-6-, 6-9-93 , d.b. = BTEX, 1400 , disposable, bailer.	Volume Container Tak (ml) Type *(tee 3×40, vial, N/A	en Filtered Preserva	Sampler (yes,no) Method (yes,no) Method Non-Phosphatic detergent wash H20 rinse Method Non-Phosphatic detergent wash H20 rinse Distilled H20 rinse
PrI-D "	Il amberglass "	1 40	
Pore Vol. Number pH Conductivity 1 6.64 406 4.5 2 6.60 372	Temp ————————————————————————————————————	12 gallon 11.5 "	
NOTES:	1.1.1		
well cap submergerl,			
one monument both	· 1		
1 1	ently sity, olive black:	1.1	
	vage like odar well an	, , ,	recover (ic wait)
	dry at pu#2, will allow	_	
the	= 10,26 of 13:43 will sample	l	$\sim 1 M_{\odot}$
Total # of Bottles: 410 (5)		Signature:	SEA-400-01



18912 North Creek Parkway, Suite 210 • Bothell, WA 98011 Office (206) 485-5000 • FAX (206) 486-9766

OCATION/ADDRESS 8701 G	Groenwood Ave N.	Souttle WA # 0368-013	. <u>.</u>	Sample Design	ce Site Number	05 6-9	N-S -06-09-93 1-93 [3:30 n 50s
HYDROLOGY MEASUREMENTS: (Nearest .01 ft.) (Nearest .01 ft.)	Elevation	Date, Tim <u>(-</u> 9-9.3 09		oil water solins (f	od Used (M-Sco intertore	probe → No	Other)
WELL EVACUATION: 1 p.V = 11. Gallons Pore Vol 35.5 3	umes Mo	ethod Used gam DUMD rassor ONVON	_h[·	,		13 p20
Surface Water Flow Speed	<u> </u>	Measurement Me	ethodN_	A	, Da	ite, Time <u>V</u>	<u> A</u>
BTEX, 13:30 d.	Volume ethod (ml) b. a 2×40, sposable, bailer,	Container Type vio.	Depth Taken (feet) NIA	Field Filtered (yes,no)	Preserva- tive HCI	Iced (yes,no)	Sample: Cleaning Method Non-Phosphatic detergent wash H20 rinse MeOH rinse Distilled H20 rinse
$\frac{1}{2}$ $\frac{1.59}{1.70}$ $\frac{20}{2}$	nductivity Tem 60 a.5 70 14.	time 1604 11:32 13:20	~12 ~12 ~11.5	gallon,			
NOTES:							
carell cap sub	nerged drained s)					·
sonde mater:	c lead wasty of	ı	6 4	wait for	pecavery	:dwats	N# 1.75 (10;
	. 3	1	123(11)	38). "	"	, 4. 1	
Total # of Bottles:				Signature	Joy Foll		SEA-400-01



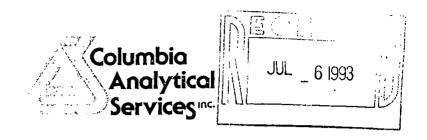
18912 North Creek Parkway, Suite 210 • Bothell, WA 98011 Office (206) 485-5000 • FAX (206) 486-9766

Field Sampling Data

Fieldblank

	of Greenwood Ave N	South WA	Well or Surface Site N Sample Designation	11-10-10-10
	(aco Graenwas)	# 0368-013.03	Date, Time	(a a = 1 a - M
PROJECT NAME	(40) (142) (140)	# VV V 	Weather	20 Av. 50 CO.
CLIENTIOONTAGT				
HYDROLOGY MEASUREME (Nearest .01 ft.)	Elevation	Date, Time _, <u>69-93</u>	Method Used	(M-Scope Number or Other)
WELL EVACUATION: \ P.V				
•	re Volumes	Method Used hragm sump npressor Ortugn	Rinse Method	Date, Time
Surface Water Flow Speed	_N(A	Measurement Method	_N(A	Date, Time VA
Date, Sample Time THI-G-, (6-9-93, BTEX, 13:00	Volume Method (m1) d.b. = 2×40 disposable bailer 1 pt	,, NI	ken Filtered Pres et) (yes,no) tiv	ve (yes,no) Methodi Non-Phalic detergent wash H20 rinse MeOH rinse
	:	·		
Pore Vol. Number pH	•	time	gallon	
NOTES:				
	field blank construc	11 ft. 23.	inc of dismost	le bailor
	TIEM MONTH CONSTA	ARD ALLON AS	This or Chalama	ic volter
-	with ? c	ertitied Postilled	rinse of disposal	gallon jug
				
		·		
				· · · · · · · · · · · · · · · · · · ·
				- M
Total # of Bottles: 2			Signature:	i And
_			/	// SEA-400-0

APPENDIX B LABORATORY REPORTS AND CHAIN-OF-CUSTODY FORM



July 6, 1993

Service Request No.: B930236

Mike Condon Texaco Environmental Services 3400 188th Street SW Suite 630 Lynnwood, WA 98037

Re: T

Texaco - 8701 Greenwood Avenue N, Seattle, WA/Project #0368-013.03/

FMWC340

Dear Mike:

Attached are the results of the samples submitted to our laboratory on June 10, 1993. For your reference, these analyses have been assigned our service request number B930236.

All analyses were performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and CAS is not responsible for use of less than the complete report. Results only apply to samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Colin B. Elliott

Laboratory Manager

cc: Pat Brooks of EMCON Northwest?

CBE/bdr

Page 1 of 14

Analytical Report

Client:

EMCON Northwest

Date Collected:

06/09/93

Project:

Texaco FMWC340

Date Received:

06/10/93

Sample Matrix: Water

Work Order No.: B930236

BTEX and TPH as Gasoline EPA Methods 5030/8020/Washington DOE Method WTPH-G μ g/L (ppb)

	Sample Name: Lab Code: Date Analyzed:	01-06-09-93 B0236-1 06/17/93	02-06-09-93 B0236-2 06/16/93	03-06-09-93 B0236-3 06/16/93
Analyte	MRL			
Benzene	0.5	35.2	108	108
Toluene	1	23	18	18
Ethylbenzene	1	415	164	164
Total Xylenes	1	1,530	666	674
TPH as Gasoline	50	. 15,000	3,270	3,300

TPH Total Petroleum Hydrocarbons MRL

Method Reporting Limit

ND

None Detected at or above the method reporting limit

Analytical Report

Client:

EMCON Northwest

Project:

Texaco FMWC340

Sample Matrix: Water

Date Collected: Date Received: 06/09/93 06/10/93

Work Order No.: B930236

BTEX and TPH as Gasoline EPA Methods 5030/8020/Washington DOE Method WTPH-G μ g/L (ppb)

	Sample Name: Lab Code: Date Analyzed:	04-06-09-93 B0236-4 06/16/93	05-06-09-93 B0236-5 06/16/93	06-06-09-93 B0236-6 06/16/93
Analyte	MR	L		
Benzene	0.5	61.1	ND	ND
Toluene	1	64	ND	ND
Ethylbenzene	1	108	ND	ND
Total Xylenes	1	533	ND	ND
TPH as Gasoline	e 50	1,900	ND	ND

TPH

Total Petroleum Hydrocarbons

MRL

Method Reporting Limit

ND

None Detected at or above the method reporting limit

Approved by	Cul-Ellis	
· · - - · · · · · ·		

1

_Date__7/6/93

Analytical Report

Client: Project: **EMCON Northwest** Texaco FMWC340

Date Collected: Date Received: 06/09/93

Sample Matrix: Water

06/10/93

Work Order No.: B930236

BTEX and TPH as Gasoline EPA Methods 5030/8020/Washington DOE Method WTPH-G μ g/L (ppb)

Sample Name: Lab Code: Date Analyzed: Method Blank B0236-MB 06/16/93

Analyte	MRL	
Benzene	0.5	. ND
Toluene	1	· ND
Ethylbenzene	1	. ND
Total Xylenes	1	ND
TPH as Gasoline	50	ND

TPH Total Petroleum Hydrocarbons MRL

Method Reporting Limit

ND None Detected at or above the method reporting limit

Analytical Report

Client: Proiect:

EMCON Northwest Texaco FMWC340

Sample Matrix: Water

Date Collected: Date Received: Date Extracted: 06/09/93 06/10/93 06/14/93

Date Analyzed: 06/15/93

Work Order No.: B930236

Total Petroleum Hydrocarbons as Diesel and Oil Washington DOE Method WTPH-D μ g/L (ppb)

		Die	esel	0	1*		
Sample Name	Lab Code	MRL	Result	MRL	Result		
02-06-09-93	B0236-2	250	ND	750	ND		
04-06-09-93	B0236-4	250	1,060	750	ND		
Method Blank	B0236-MB	250	ND	750	ND		

 Quantified using 30-weight motor oil as a standa 	rd.
--	-----

MRL Method Reporting Limit

None Detected at or above the method reporting limit ND

Con- Ellis

QA/QC Report

Client: Project: **EMCON Northwest**

Texaco FMWC340

Sample Matrix: Water

Date Collected:

06/09/93

Date Received: Date Analyzed: 06/10/93 06/16,17/93

Work Order No.: B930236

Surrogate Recovery Summary BTEX and TPH as Gasoline EPA Methods 5030/8020 Washington DOE Method WTPH-G

Lab Code	Spike Level (µg/L)	Percent Recovery 4-Bromofluorobenzene				
B0236-1	100	103				
B0236-2	100	106				
B0236-3	100	105				
B0236-4	100	108				
B0236-4Dup	100	105				
B0236-5	100	102				
B0236-6	100	. 82				
B0236-6MS	100	105				
B0236-MB	100	107				
B0236-LCS	100	109				
B0236-GLCS	100	104				
	B0236-1 B0236-2 B0236-3 B0236-4 B0236-4Dup B0236-5 B0236-6 B0236-6MS B0236-MB B0236-LCS	(μg/L) B0236-1 100 B0236-2 100 B0236-3 100 B0236-4 100 B0236-4Dup 100 B0236-5 100 B0236-6 100 B0236-6MS 100 B0236-MB 100 B0236-LCS 100				

CAS Acceptance Criteria

TPH Total Petroleum Hydrocarbons

Ch. Elling

Date 7/6/53

59-139

QA/QC Report

Client: Project: **EMCON Northwest** Texaco FMWC340

Sample Matrix: Water

Date Collected:

06/09/93

Date Received:

06/10/93

Date Analyzed: Work Order No.: B930236

06/16/93

Duplicate Summary BTEX and TPH as Gasoline EPA Methods 5030/8020/Washington DOE Method WTPH-G μ g/L (ppb)

Sample Name:

04-06-09-93

Lab Code:

B0236-4

			Duplicate		Relative
Analyte	MRL	Sample Result	Sample Result	Average	Percent Difference
Benzene	0.5	61.1	57.0	59.0	7
Toluene	1	64	59	61	8
Ethylbenzene	1	108	101	104	7
Total Xylenes	1	533	491	512	8
TPH as Gasoline	50	1,900	1,780	1,840	7

TPH

Total Petroleum Hydrocarbons

MRL

Method Reporting Limit

ND

None Detected at or above the method reporting limit

____Date_ 7/6/93

QA/QC Report

Client:

EMCON Northwest

Project:

Texaco FMWC340

Sample Matrix: Water

Date Collected:

06/09/93

Date Received: Date Analyzed: 06/10/93 06/17/93

Work Order No.: B930236

Matrix Spike Summary BTEX and TPH as Gasoline EPA Methods 5030/8020/Washington DOE Method WTPH-G μ g/L (ppb)

Sample Name:

06-06-09-93

Lab Code:

B0236-6

Analyte	80200 0	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Criteria
Benzene		100	ND	108	108	51-159
Toluene		100	ND	110	1 1.0	50-156
Ethylbenzene		100	ND	112	112	49-157

None Detected at or above the method reporting limit ND

Col Elluits

QA/QC Report

Client:

EMCON Northwest

Date Analyzed:

Project:

Texaco FMWC340

06/16/93 Work Order No.: B930236

LCS Matrix: Water

Laboratory Control Sample Summary BTEX and TPH as Gasoline EPA Methods 5030/8020/Washington DOE Method WTPH-G μ g/L (ppb)

	True		Percent	CAS Percent Recovery Acceptance		
Analyte	Value	Result	Recovery	Criteria		
Benzene	100	96	96	51-159		
Toluene	100	101	101	50-156		
Ethylbenzene	100	104	104	49-157		
TPH as Gasoline	5,150	5,510	107	70-140		

TPH Total Petroleum Hydrocarbons

Date 7/6/93

QA/QC Report

06/09/93 Date Collected: Client: **EMCON Northwest** 06/10/93 Texaco FMWC340 Date Received: Project: Date Extracted: 06/14/93 Sample Matrix: Water Date Analyzed: 06/15/93 B930236 Work Order No.:

Surrogate Recovery Summary ` Total Petroleum Hydrocarbons as Diesel and Oil Washington DOE Method WTPH-D

Sample Name	Lab Code	Percent Recovery p-Terphenyl			
02-06-09-93	B0236-2	102			
04-06-09-93	B0236-4	107			
Method Blank	B0236-MB	103			
Laboratory Control Sample B0236-LCS		103			
	CAS Acceptance Criteria	36-124			

Approved by Out- Ellis Date 7/6/13

QA/QC Report

Client: Project:

EMCON Northwest Texaco FMWC340

Sample Matrix:

Water

Date Collected:

----/----/----

Date Received:
Date Extracted:

----/----/----06/14/93

Date Analyzed:

06/15/93

Work Order No.: B930236

Duplicate Summary
Total Petroleum Hydrocarbons as Diesel and Oil
Washington DOE Method WTPH-D $\mu g/L$ (ppb)

Sample Name:

Batch QC B0238-2

Lab Code:

Duplicate Relative Sample Percent Sample Difference Result Analyte MRL Result Average 250 ND ND Diesel ND ND Oil 750

MRL

Method Reporting Limit

ND

None Detected at or above the method reporting limit

Approved by Colling

Date 7/6/52

QA/QC Report

Client:

EMCON Northwest

Project:

Texaco FMWC340

Sample Matrix: Water

Date Collected:

----/----/--------/----

Date Received: Date Extracted:

06/14/93

Date Analyzed:

06/15/93

Work Order No.: B930236

CAS

Matrix Spike Summary Total Petroleum Hydrocarbons as Diesel and Oil Washington DOE Method WTPH-D μ g/L (ppb)

Sample Name:

Batch QC

Lab Code:

B0238-2

Analyte		Spiked Sample Result	Percent . Recovery	Percent Recovery Acceptance Criteria	
Diesel	1,120	ND	1,130	101 ⁻	50-130

ND None Detected at or above the method reporting limit

Approved by __ Ch_ Ellis

Date 7/6/53

QA/QC Report

Client: Project: **EMCON Northwest** Texaco FMWC340

LCS Matrix: Water

Date Extracted: Date Analyzed: 06/14/93 06/15/93

Work Order No.: B930236

Laboratory Control Sample Summary Total Petroleum Hydrocarbons as Diesel and Oil Washington DOE Method WTPH-D μ g/L (ppb)

				CAS Percent
				Recovery
	True		Percent	Acceptance
Analyte	Value	Result	Recovery	Criteria
Diesel	1,010	988	98	50-130

olumbia
Analytical
Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

ļ	Service		912 North Cr	eek Pkwy, Suite 118	s • Botheil	. WA 9	8011 •	(206) 4	186-698	33 • F#	AX (206	3) 486-7	7695		D	ATE	6-	0-0	13	!	PAGE	<u></u>		OF_	
Γ												-				IAL					CAN		ETA	1 6/11	ORGANICS
	PROJECT NAME Texas		mood_	# O368 <u>~</u> ()13.03	<u>5_</u>	· 82		\rightarrow	7	TRO		<u>м не</u> /	cs /	8	/	GAN		$\overline{}$		<u> </u>				\$ //
	COMPANY/ADDRESS		N		·		OF CONTAINERS		//	BTEX			/	Comatic Vo		rganics		//,	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	tellos de la composition della	GAN CON	10X 7. 03 (5104, PQ F. B. W OII	otal.p TKN	ic hal	39 81
	SAMPLERS SIGNATURE _	7	m Ball	PHONE 48	<u>25-50</u>	<u>w</u> _	ER OF CC			14 A	(0 0) 0 0 0 0 0 0 0 0	Other	nated	or A	624 P.S.	625/827 68/827 68/827	80 08 80 00 80 00 80 80 00 80 80 80 80 80 80 80 80 80 80 80 80 8		7 707	\$ & @) Jana		1,2(e)2,1	aganic.	
-	SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMF		NUMBER	State: HCID	State G	Sales.	THE STATES	Hell .	Halog 60,109				188 187 187 187 187 187 187 187 187 187	Melak Alegar	Metals		E S		\F	<u>.</u>	REMARKS
ŀ		6-9-93		B023.6-1	wate	Y	3		S										1						
Ī	02-06-09-93	¥	12:30	2	ц		4		J	✓									J						
	03-06-09-93	ı,	10 :00	3	ч		3		J							<u> </u>			J	<u> </u>	<u> </u>		<u> </u>		
	04-06-09-93	ų	14:00	4	ų		5		J	1	<u> </u>				<u> </u>		<u> </u>		J		ļ		<u> </u>		
ĺ	05-06-09-93	И	13:30	5	n n		3	<u> </u>	J		ļ				ļ			<u>.</u>	√	<u> </u>	ļ	<u> </u>		 	
	06-06-09-93	11	13:00	6	11		2	<u> </u>	\ <u>\</u>	<u> </u>	-		ļ		_		ļ		-	 	_		 	-	
В	07-06-09-93	13			"		-	<u> </u>	X	<u> </u>	_			<u> </u>	ļ	<u> </u>			ļ	}_	 	├	_	<u> </u>	Disregand
	pugewater	11	NA	7	1)		11	-	<u> </u>	 	-	<u> </u>		-	<u> </u>	-	-	-		-	-	\vdash	√	 	
				 																					
	RELINQUISHED I	BY:	a.	RECEIVED BY:					QUIREM hr.			REPOR	RT REC Itine Rep		IENTS		INVC	ICE IN	FORM/	ATION:	1		S	AMPLE	RECEIPT:
	Signature 3			Elliot			Standar	d (10-15 s	working d	days)	-		ort (inclu			1	·	_				1	-		
i	Printed Name		Printed N	Name C			Provide Results	Verbal P	reliminary	ý			D, as rec arged as			Bill I							iition:		
	Firm 6-10-93 08 Date/Time		Firm 6-/	v93 08:	00			-	liminary P		— - —	_ (in	ta Valida Icludes A .P Delive	III Raw [Data)							Lab N	10:	343	3-0236
	RELINQUISHED	BY:		RECEIVED BY:		SPE	CIAL	INSTR	UCTIC	ONS/C	COMM	IENTS	: :			·									
	Signature		Signatur	е						_	Tota	.1 1	ead bae	i										•	
	Printed Name		Printed	Name							10 10	VI 1	-40												
<i>.</i> .	Firm		Firm																						
≂.	Date/Time		Date/Tir	ne		1																			



June 23, 1993

Service Request No.: K933347B

Mike Condon Texaco Environmental Services 3400 188th Street SW Suite 630 Lynnwood WA 98037

Re: Texaco Greenwood/Project #0368-013.03/B930236

Dear Mike:

Enclosed are the results of the samples submitted to our laboratory on June 10, 1993. For your reference, these analyses have been assigned our service request number K933347B. The analysis was authorized under Texaco job number FMWC340.

All analyses were performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 215.

Respectfully submitted,

Columbia Analytical Services, Inc.

Kent Patton

Field Services Manager

KP/akn

Page 1 of ______

Analytical Report

Client: Project: Texaco Environmental Services Texaco Greenwood/#0368-013.03

Sample Matrix:

Water

Date Received: Date Analyzed: 06/10/93 06/15/93

Work Order No.: K933347B

Total Organic Halides (TOX) EPA Method 9020 μ g/L (ppb)

Sample Name	Lab Code	MRL	Result				
Purgewater	К3347-3	10	ND				
Method Blank	К3347-МВ	10	ND				

MRL

Method Reporting Limit

ND

None Detected at or above the method reporting limit

Analytical Report

Client: Project:

Texaco Environmental Services
Texaco Greenwood / # 0368-013.03

Date Received: Work Order No.:

6/10/93 K933347B

Matrix:

Water

Total Lead EPA Method 7421 µg/L (ppb)

	Lab		
Sample Name:	Code	MRL	Result
01-06-09-93	K334701	2	ND
02-06-09-93	K334702	2	3
03-06-09-93	K334703	2	ND
04-06-09-93	K334704	2	ND
05-06-09-93	K334705	2	ND
Method Blank	K3347MB	2	ND

MRL

Method Reporting Limit.

KA-PART

ND

None Detected at or above the method reporting limit.

GEN1B/03-13-92

Date: 6/23/57 Page No.

QA/QC Report

Client:

Texaco Environmental Services Texaco Greenwood/#0368-013.03 Date Analyzed: Work Order No.:

06/15/93 K933347B

Project: Sample Matrix:

Water

Calibration and Method Blank Summary
Total Organic Halides (TOX)
EPA Method 9020

µg/L (ppb)

	Instrument Calibration Standard (µg)	Adsorption Standard	Halide Check Standard (µg)	Method Blank
True Value	10.0	100	3.62	ND
Run A	10.20	91	3.82	ND
Percent Recovery	102	91	106	
Run B	10.17	•	3.78	
Percent Recovery	102		104	

ND None Detected at or above the method reporting limit

Approved by LL RAT

Date 6/23/93

QA/QC Report

Client: Project: Texaco Environmental Services Texaco Greenwood/#0368-013.03 Date Analyzed: Work Order No.: K933347B

06/15/93

Sample Matrix:

Water

Matrix Spike/Duplicate Matrix Spike Summary Total Organic Halides (TOX) EPA Method 9020 μg/L (ppb)

Sample Name:

Batch QC

Lab Code	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Criteria	Relative Percent Difference
K3382-7MS	10	100	ND	106	106	85-115	5
K3382-7DMS	10	100	ND	111	111	85-115	

MRL

Method Reporting Limit

ND

None Detected at or above the method reporting limit

Approved by KL RAG

QA/QC Report

Client: Project: Texaco Environmental Services Texaco Greenwood / # 0368-013.03

Matrix:

Water

Date Received: Work Order No.:

6/10/ K933347

Duplicate Summary Total Metals

μg/L (ppb)

Sample Name:

05-06-09-93

Lab Code:

K334705

Relative **Duplicate** Percent Sample Sample **EPA** Difference Average Result Result Method MRL Analyte

Lead

7421

2

ND

ND

ND

MRL ND

Method Reporting Limit

M. KL PSA

None Detected at or above the method reporting limit

METD.GW/03-13-92

Date: 6/23/52 Page No.:

QA/QC Report

Client: Project: **Texaco Environmental Services** Texaco Greenwood / # 0368-013.03

Matrix:

Water

Date Received: Work Order No.:

6/10/9 K933347

Matrix Spike Summary Total Metals

μg/L (ppb)

Sample Name:

05-06-09-93

Lab Code:	K334705					CAS
200 0020.		•		,		Percent
				Spiked		Recovery
	•	Spike	Sample	Sample	Percent	Acceptance
Analyte	MRL	Level	Result	Result	Recovery	Criteria
Lead	2	20	ND	21	105	75-125

MRL ND

Method Reporting Limit

None Detected at or above the method reporting limit

METMS,W/03-13-92

Page No.:

olumbia	
Analytical	
Services:	

CHAIN OF CUSTODY/LABORATORY ANALYSIS HEPUHI FUHIN

	Del vic	-C2 18	3912 North C	reek Pkwy, Suite 11	8 · Bothell,	, WA 98	011 •	(206)	486-69	183 • F	AX (20	6) 486-	7695		L	MIE_	<u> </u>	<u> - ע</u>	<u> </u>		PAGE	<u></u>			
		C.		02684	012 02	T					===			 		AAL,							.===	100	•
	PROJECT NAMEPROJECT _	CO SPECI	<u> </u>	#_0368>	<u>015, 02</u>		6		-/		TRO	LEU	<u>м н</u>	CS /	8 /	<u>он</u> /	GAI		7		IGAI	ile N	IE I A		NORGANIC
	COMPANY/ADDRESS	₽MC) N			_	TAINER					Day.	/	natic Vol		anics		//		DISS	//	004 F. B.	1.p TKN	14	
			7 6 1	PHONE 48	85-50	$\frac{\overline{x}}{ x }$	NUMBER OF CONTAINERS		,	4 BTEX	\bar{\displaystar} \displaystar \bar{\displaystar} \bar{\displaystar} \bar{\displaystar} \bar{\displaystar} \bar{\displaystar} \bar{\displaystar} \bar{\displaystar} \bar{\displaystar} \bar{\displaystar} \bar{\dinfty} \bar{\displaystar} \displaystar			20 Arg.	8 4 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	26.29 26.20 26.20			\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		GAI CON	(S. S. S) (20, 70/8)	Signic half	/ /
	SAMPLERS SIGNATURE		m Ball	146	LOAMBI		MBER	7. HO	Siene. G	30	3/4		ogenat Rogenat							elow 37ide	Cong	%	<u> </u>	<u>ַ</u>	
	SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPI MATR			E &	E S	ES	E S	E	\$ E.	હિંદ	(#G	\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ 8		Si Si	<u>්</u>	<u>[₹</u> ≥	<u>[₹</u> 2	<u> </u>	<u>/</u>	REMARK
	01-06-09-93	6-9-93	11:15	B0236-1	water		3		1										1		<u> </u>	<u> </u>	<u> </u>		
	02-06-09-93	ų	12:30		H		4		1	✓	<u> </u>								1		<u> </u>				
	03-06-09-93	H	10 :00	3	11	.	<u>3</u>	ļ	J		ļ								<u> </u>	<u> </u>		<u> </u>	<u> </u>		
	04-06-09-93	H	14:00	4	н		5		J	<u> </u>	ļ					<u>'</u>			J	<u> </u>	<u> </u>				
	05-06-09-93	И	13:30	5	H H		<u>3</u>		J		<u> </u>				<u> </u>		<u> </u>		√				<u> </u>		
-en	06-06-09-93	11	13:00	6	11	·	2_		V										<u> </u>	_	ļ				·
В	07-06-09-93	11	ļ		1				17		ļ				<u> </u>			. .	ļ .	ļ					Disregard
	pugewater	11	NA	7	11		<u> </u>	<u> </u>	 								<u> </u>			ļ	 	<u> </u>	√		
	<u>' </u>	ļ			·	·			<u> </u>					<u>.</u>	<u> </u>		ļ		<u> </u>	<u> </u>	 		<u> </u>		
		<u> </u>		<u> </u>	<u> </u>			<u> </u>								_	10100	105 111	OBL	TION	1	<u> </u>	<u>_</u>	AUDIE	RECEIPT:
	RELINQUISHED E	3Y:	an	received by:		TURNAF			JUIREM hr		1	REPOR I. Rout			ENIS		INVO	ICE INF	FURMA	ATION:		1	3/	AMPLE	negelf1:
	Signature Printed Name		Signature	· 511204	-				working d			II. Repo	ort (includ	des DUP								1	ing VIA: ,		
	Printed Name		Printed N	Elliot	' -		ovide V sults	erba! Pr	reliminary	,		char	, as requ ged as s	vired, ma samples)	ly be	Bill To					—	Shippi Condit			
	Firm 6-10-93 08	m	Firm 6-16	v-93 08:				AX preli	iminary R	esuits	-	III. Data (inc	i Validati ludes Ali	ion Repo I Raw Da	ort ita)										0.5-1
	Date/Time	14)	Date/Tim	θ	<u> </u>	Requested	l Repo	rt Date _			.]—	IV. CLF	Deliver	able Rep	ort							Lab N	o:	595	-0236
	RELINQUISHED E	3Y:	0;	RECENTED BY:	200	SPECI	AL IN	ISTR	UCTIC	NS/C	ОММ	ENTS:										•			
	Signature C		Signature	nuu	2007																				
	Brinted Name	•	Printed N	ame 10	0//_						Tota	l le	ad.												
~	1 CAS BONNE		Firm/	(H)	-																				
	00/10/93 17	00	Date/Tim		00																				
;.	1 Salor IIIII			· -									-	-						•					