TEXACO STATION # 63232 0037
KING Co. - Seattle
LUST # 2298

RECEIVED
JAN 11 1993
DEPT. OF ECOLOGY

EMCON
Northwest, Inc.
18912 North Creek Parkway • Suite 210 • Bothell, WA 98011-8016 • Office (206) 485-5000 • FAX (206) 486-9766

December 4, 1992
Project 0368-013.02

DEPARTMENT OF ECOLOGY
NWRO/TCP TANK UNIT
IVC# 2298
INTERIM CLEANUP REPORT [X]
SITE CHARACTERIZATION [ ]
FINAL CLEANUP REPORT [ ]
OTHER _____ [ ]
AFFECTED MEDIA: SOIL [ ]
OTHER _____ GW [X]
INSPECTOR (INIT.) JL DATE 12/5/92

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

Re: Ground Water Sampling Report
Texaco Service Station #63232 0037
8701 Greenwood Avenue North
Seattle, Washington

Dear Mr. Condon:

EMCON Northwest, Inc., is pleased to present the results of the ground water sampling and monitoring activities conducted from April 28, to November 6, 1992, at the Texaco service station at 8701 Greenwood Avenue North in Seattle, Washington. All work was performed in accord with the Contract Change Order, dated November 18, 1991, and our proposal for ground water monitoring dated March 4, 1992.

BACKGROUND

The site is an active gasoline service station at 8701 Greenwood Avenue North in Seattle, Washington (Figure 1). Ground water monitoring wells were installed on the subject site in March 1991 as part of a pre-sale site assessment to evaluate the type and extent of potential contamination. A site plan is included as Figure 2. A report entitled "Report on Initial Site Assessment" was prepared by Texaco Environmental Services and forwarded to the Washington State Department of Ecology in August 1991. Since then, Texaco Environmental Services has monitored ground water elevations and conducted ground water sampling at the site. These efforts are summarized in this report.

GROUND WATER CONDITIONS

Depth to ground water was measured in each well on April 28, May 22, June 30, and November 6 of 1992. Depth to water measurements were converted to relative ground water elevations using previous survey data for the top of each well casing. Depth to water measurements and relative

ground water elevation data are provided on Table 1. Relative ground water elevation (potentiometric) maps were prepared, and the ground water gradients were evaluated for each date (Figures 3A, 3B, 3C, and 3D).

Previous boring log data indicate that ground water beneath the site is confined beneath a peat and silt layer that extends to a maximum depth of approximately 10 to 15 feet below ground surface. The presence of the gasoline tank basin appears to influence ground water flow direction by increasing the water level in AGW-2. The direction of the ground water gradient was generally toward the west, but also included a northwest and southwest component on all monitoring dates.

GROUND WATER SAMPLING

Ground water samples were collected from monitoring wells AGW-1, AGW-2, AGW-4, and AGW-5 on November 6, 1992. Monitoring well locations are shown on Figure 2. Prior to sampling, the depth to ground water was measured to the nearest 0.01 foot in each well.

Before ground water samples were collected, each well was visually checked for the presence of free-floating petroleum product by using a clear PVC bailer. No floating product was observed in any of the wells at the time of sampling.

At least three casing volumes of ground water were purged with a suction pump before collecting ground water samples. Ground water temperature, pH, and specific conductance were measured after each casing volume. These data, recorded on the Field Sampling Data Sheets, are provided in Appendix A. Ground water samples were collected when the parameters were within ±10 percent of the previous reading.

Ground water 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

Ground water samples from all wells were submitted for analysis for 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. Duplicate and field blank samples were submitted for analysis for TPH as gasoline and BTEX. In addition, ground water samples from AGW-4 and AGW-5 were analyzed for ethylene glycol by EPA Method 8020. A ground water sample from AGW-4 was collected to be analyzed for total coliform by SW Method 9221B, but the holding time was exceeded before it could be analyzed.

LABORATORY ANALYTICAL RESULTS

Ground water samples collected November 6, 1992, contained benzene concentrations that exceeded MTCA Method A cleanup Levels in AGW-1, AGW-2, and AGW-4. MTCA Method A cleanup levels were also exceeded for toluene, ethylbenzene, and total xylenes in AGW-1 and AGW-2. TPH as gasoline concentrations exceeded MTCA Method A cleanup levels in samples collected from AGW-1 and AGW-2. Total lead and ethylene glycol were not detected in those samples analyzed.

Ground water analytical results, including those of all previous sampling episodes, 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

The increase in dissolved hydrocarbon concentrations beginning with the August 1991 sampling results is probably due to a leak in the vicinity of the unleaded tank pump turbine in July 1991. The leak has been repaired. Dissolved hydrocarbon concentrations generally decreased or remained constant from March 1992 to November 1992. The ground water sample collected from AGW-4 showed a reduction in toluene concentration to below MTCA Method A cleanup levels.

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 agreement 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 and recommendations 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

David W. Ashcom, P.E.
Director, Hydrocarbon Services

Table 1

Survey and Ground Water Elevation Summary
Texaco Service Station
8701 Greenwood Avenue North
Seattle, Washington

Well	Elevation at Top PVC (ft)	Date Monitored	Depth to Water (ft)	Ground Water Elevation (ft)
AGW - 1	47.36	04/03/91	3.18	44.18
		08/15/91	0.62	46.74
		09/20/91	0.48	46.88
		10/17/91	0.91	46.45
		11/21/91	0.70	46.66
		12/18/91	0.81	46.55
		03/06/92	0.47	46.89
		04/28/92	0.47	46.89
		05/22/92	0.48	46.88
		06/30/92	0.45	46.91
		11/06/92	0.46	46.90
AGW - 2	47.59	04/03/91	3.43	44.16
		08/15/91	1.65	45.94
		09/20/91	1.26	46.33
		10/17/91	1.27	46.32
		11/21/91	1.30	46.29
		12/18/91	1.07	46.52
		03/06/92	1.14	46.45
		04/28/92	1.14	46.45
		05/22/92	1.16	46.43
		06/30/92	1.13	46.42
		11/06/92	1.18	46.41
AGW - 3	49.10	(abnd'd)	(flowing)	(49.10 +)
AGW - 4	47.97	04/03/91	4.61	43.36
		08/15/91	2.76	45.21
		09/20/91	2.20	45.77
		10/17/91	2.40	45.57
		11/21/91	2.45	45.52
		12/18/91	2.86	45.11
		03/06/92	2.45	45.52
		04/28/92	3.08	44.89
		05/22/92	2.74	45.23
		06/30/92	2.80	45.17
		11/06/92	3.21	44.76

Table 1

Survey and Ground Water Elevation Summary (Continued)

Well	Elevation at Top PVC (ft)	Date Monitored	Depth to Water (ft)	Ground Water Elevation (ft)
AGW - 5	49.47	04/03/91	2.78	46.69
		08/15/91	1.53	47.94
		09/20/91	<2.06 *	47.41 +
		10/17/91	1.59	47.88
		11/21/91	2.40	47.07
		12/18/91	1.44	48.03
		03/06/92	1.45	48.02
		04/28/92	1.88	47.59
		05/22/92	1.62	47.85
		06/30/92	1.76	47.71
		11/06/92	2.27	47.20

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

* Water level continued to rise after one hour; this is last reading and represents a minimum ground water elevation.

Table 2
Texaco Environmental Services
Ground Water Sample Chemical Analyses
8701 Greenwood Avenue North
Seattle, Washington

Sample Location	Sample Date	Sample ID	BTEX Compounds[a] (ppb)				418.1 (ppm)	Total Petroleum Hydrocarbons[b] (ppm)			Total Lead[c] (ppb)
			Benzene	Toluene	Ethyl-benzene	Total Xylenes		Gasoline	Diesel	Oil	
MTCA Method A Cleanup Levels			5	40	30	20	1	1	1	1	5
AGW-1	4/3/91	AGW-1	ND	ND	ND	ND	---	---	---	---	---
AGW-1	5/15/91	AGW-1	440	1,000	92	670	---	---	---	---	---
AGW-1	8/15/91	AGW-1	1,400	7,400	1,000	8,100	---	361	---	---	ND
AGW-1 (dup)	8/15/91	AGW-7	1,300	6,900	930	7,500	---	340	---	---	ND
AGW-1	11/21/91	AGW-1	680	6,400	2,000	13,000	---	47	ND	ND	---
AGW-1 (dup)	11/21/91	AGW-10	710	6,700	2,100	14,000	---	49	ND	ND	---
AGW-1	3/6/92	01-03-06-92	330	3,200	1,400	8,700		48	ND	ND	ND
AGW-1 (dup)	3/6/92	03-03-06-92	333	3,200	1,400	8,900		48	---	---	---
AGW-1	11/6/92	01-11-06-92	95.1	260	1,400	8,200	---	37	---	---	ND
AGW-1 (dup)	11/6/92	03-11-06-92	98.0	260	1,400	8,300	---	37	---	---	---
AGW-2	4/3/91	AGW-2	ND	ND	ND	ND	---	---	---	---	---
AGW-2 (dup)	4/3/91	AGW-22	ND	ND	ND	ND	---	---	---	---	---
AGW-2	5/15/91	AGW-2	ND	ND	ND	ND	---	---	---	---	---
AGW-2	8/15/91	AGW-2	250	220	15	86	---	1.03	---	---	ND
AGW-2	11/21/91	AGW-2	910	1,300	260	1,200	---	7.3	ND	1.2	---
AGW-2	3/6/92	02-03-06-92	870	3,700	760	4,900	---	24	ND	1.1	ND
AGW-2 (dup)	3/6/92	08-03-06-92	840	3,500	730	4,700	---	23	ND	0.9	---
AGW-2	11/6/92	02-11-06-92	152	98	175	804	---	3.23	---	---	ND
AGW-3	3/29/91	AGW-3	ND	ND	ND	ND	---	---	---	---	---
AGW-4	4/3/91	AGW-4	2.6	20	2.7	31	---	---	---	---	---
AGW-4	5/15/91	AGW-4	8.4	19	2.4	20	ND	---	---	---	---
AGW-4	8/15/91	AGW-4	11	4	1	7	---	12	3.26	---	4
AGW-4*	11/21/91	AGW-4	660	700	21	133	---	3.5	ND	2.04	---
AGW-4**	3/6/92	04-03-06-92	139	182	3	18	---	ND	ND	0.8	ND
AGW-4***	11/6/92	04-11-06-92	20.9	13	4	17	---	0.09	---	---	ND

Table 2
Texaco Environmental Services
Ground Water Sample Chemical Analyses
8701 Greenwood Avenue North
(Continued)

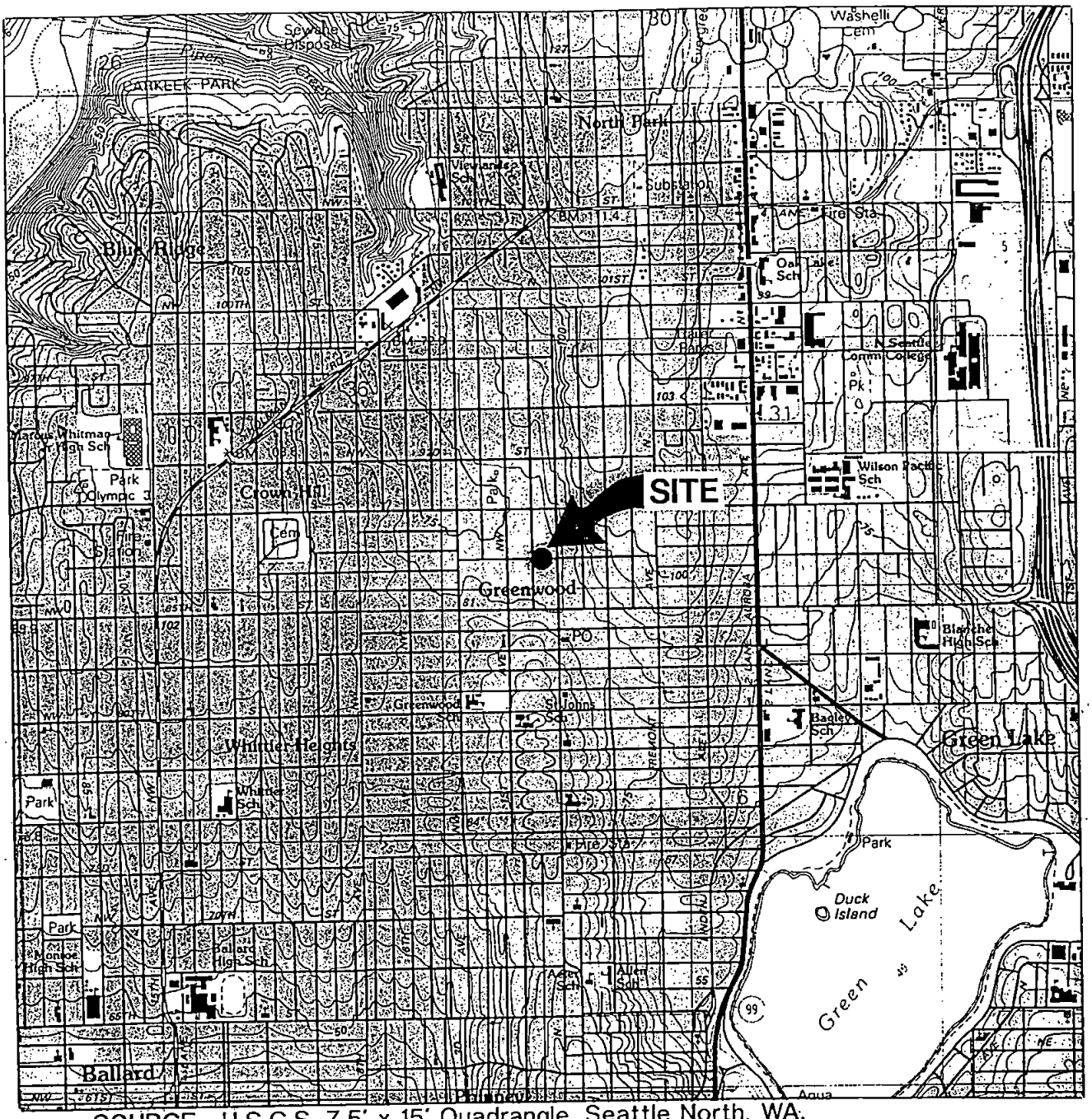
Sample Location	Sample Date	Sample ID	BTEX Compounds[a] (ppb)				418.1 (ppm)	Total Petroleum Hydrocarbons[b] (ppm)			Total Lead[c] (ppb)
			Benzene	Toluene	Ethyl-benzene	Total Xylenes		Gasoline	Diesel	Oil	
MTCA Method A Cleanup Levels			5	40	30	20	1	1	1	1	5
AGW-5	4/3/91	AGW-5	30	10	5	7	—	—	—	—	—
AGW-5	5/15/91	AGW-5	220	53	3.5	12	—	—	—	—	—
AGW-5 (Dup)	5/15/91	AGW-10	190	53	3.5	11	—	—	—	—	—
AGW-5	8/15/91	AGW-5	9.4	ND	ND	ND	—	0.10	—	—	ND
AGW-5	11/21/91	AGW-5	2.5	ND	ND	ND	—	ND	ND	ND	—
AGW-5*	3/6/92	05-03-06-92	0.9	ND	ND	ND	—	ND	ND	ND	ND
AGW-5*	11/6/92	05-11-06-92	ND	ND	ND	ND	—	ND	—	—	ND
Blank	11/6/92	06-11-06-92	ND	ND	ND	ND	—	ND	—	—	—

NOTES:
- ND — No detection
- — — Not analyzed
- AGW4* — Total Coliform Bacteria = 110 organisms per liter
- AGW4** — Total Coliform Bacteria = ND; Ethylene Glycol = ND
- AGW4*** — Ethylene Glycol = ND
- AGW5* — Ethylene Glycol = ND
- Dup — Duplicate sample
- Shaded cells — Shaded cells indicate that values exceed MTCA Method A levels.
- MTCA — Model Toxics Control Act, Chapter 173-340 WAC, adopted February 1991.

Chapter 173-340 WAC, "The Model Toxics Control Act Cleanup Regulations, Method A Cleanup Limits." Amended February 1991. Caution on misusing Method A tables. Method A tables have been developed for specific purposes. They are intended to provide conservative cleanup levels for sites undergoing routine cleanup actions or those sites with relatively few hazardous substances. The tables may not be appropriate for defining cleanup levels at other sites. For these reasons, the values in these tables should not automatically be used to define cleanup levels that must be met for financial, real estate, insurance coverage or placement, or similar transactions or purposes. Exceedances of the values in these tables do not necessarily trigger requirements for cleanup action under this chapter.

[a] Results for analyses of ground water samples for BTEX and ethylene glycol were obtained using EPA Methods 5030/8020 (Purge and Trap) and reported as µg/l (ppb).
[b] Results for analyses of ground water samples for total petroleum hydrocarbons were obtained using EPA Methods 5030/8015 Modified (GC/FID), reported as µg/l (ppb), and presented here in ppm.
[c] Results for analyses of ground water samples for total lead were obtained using EPA Method 7421 and reported as µg/l (ppb).

142322



SOURCE: U.S.G.S. 7.5' x 15' Quadrangle, Seattle North, WA.

WASHINGTON

N

0 2000 4000

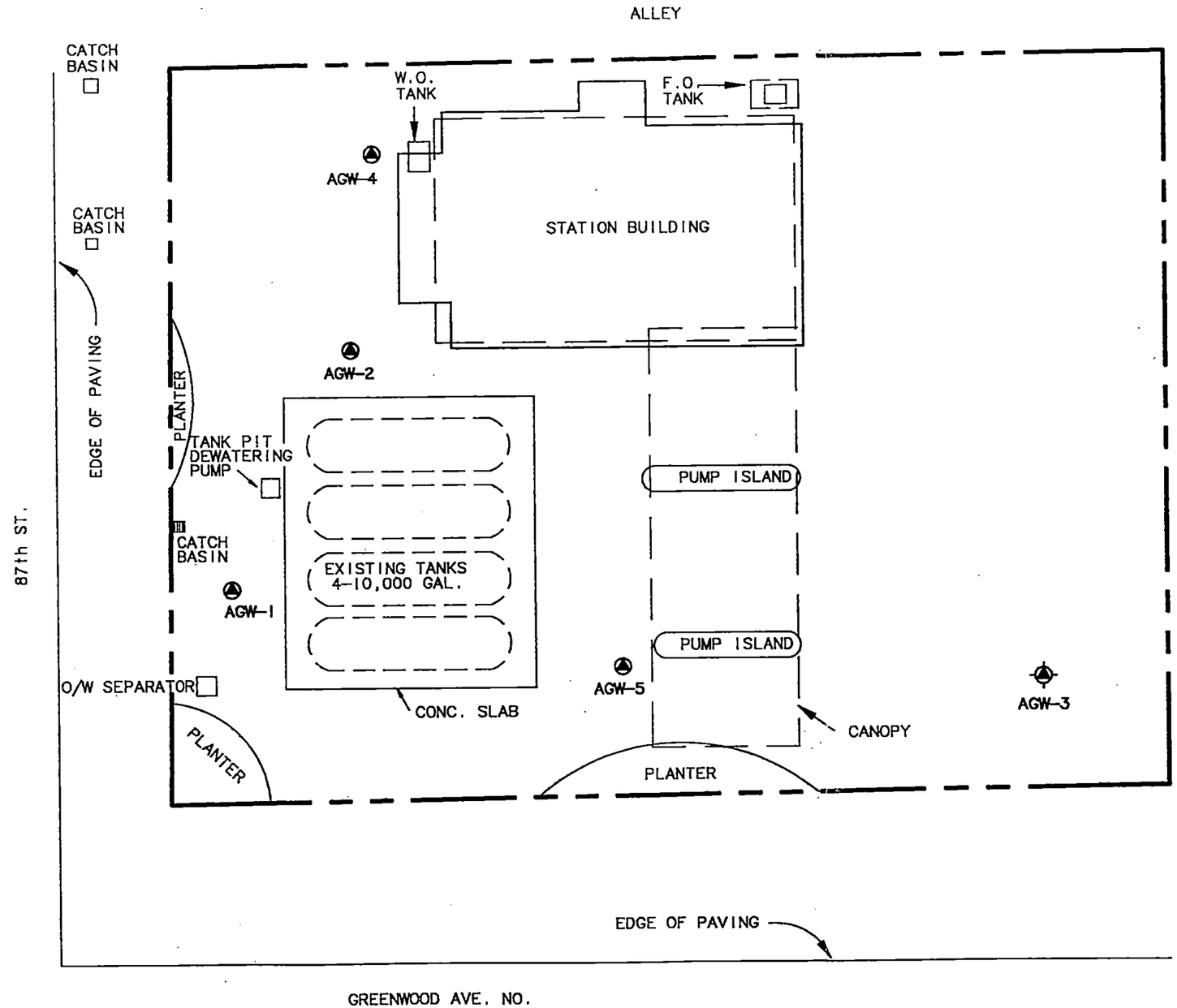
SCALE (ft)

EMCON Northwest, Inc.

DATE 4/92
DWN. JA
APPR.
REVIS.
PROJECT NO. W6813.02

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

SITE LOCATION MAP



LEGEND

AGW-1 MONITORING WELL LOCATION AND WELL NUMBER

AGW-3 ABANDONED MONITORING WELL LOCATION AND WELL NUMBER

N

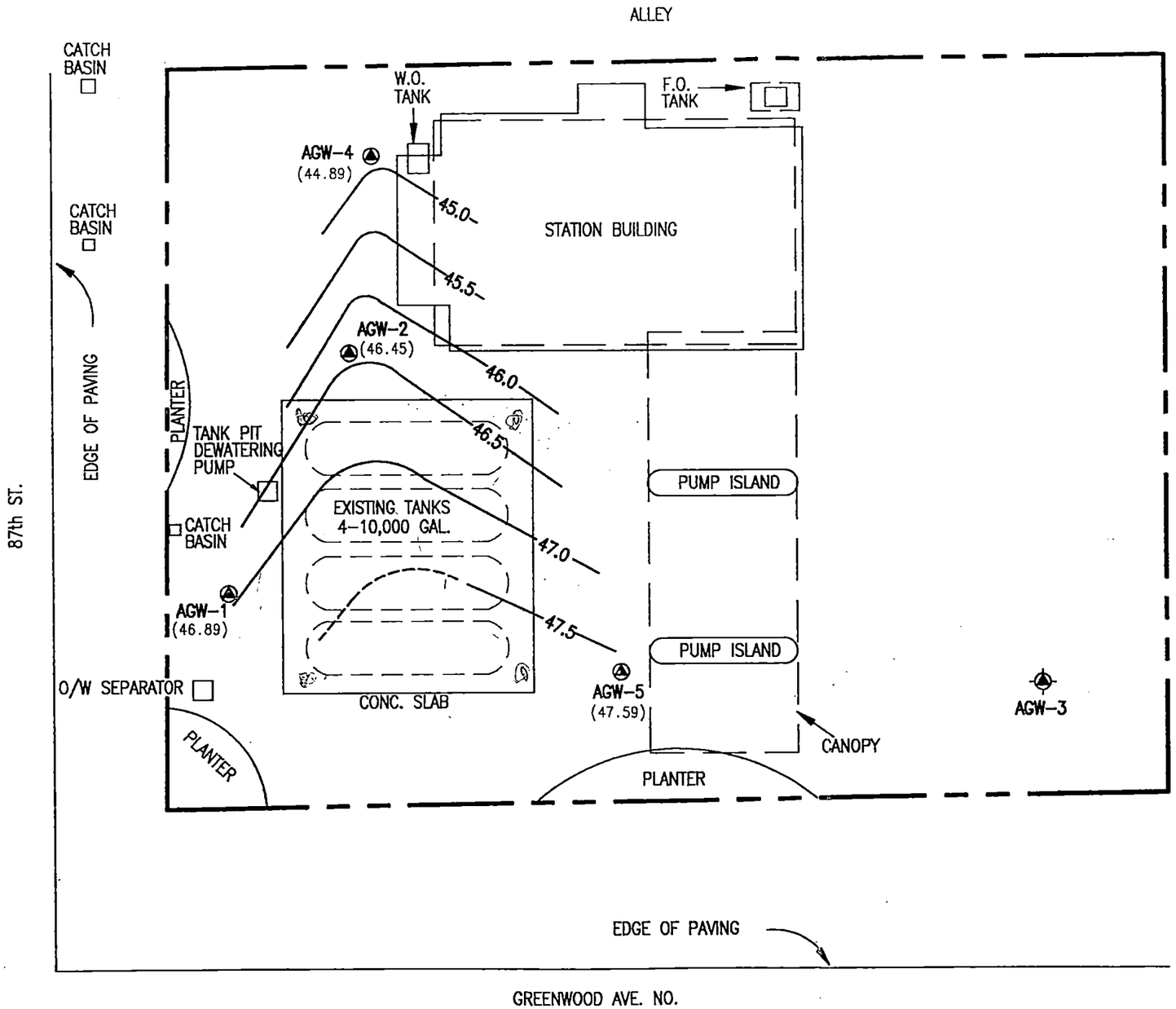
0 20 40

SCALE (ft)

EMCON Northwest, Inc.

DATE 3/3
DWN. KLM
REV.
APPR.
PROJECT NO.
U681302

Figure 2
87th ST. & GREENWOOD AVE. NO.,
SEATTLE, WASHINGTON
MONITORING WELL LOCATION MAP



LEGEND:

- AGW-1 — Monitoring Well Location and Well Number
- AGW-3 — Abandoned Monitoring Well Location and Well Number
- (46.89) — Measured Water Level in Monitoring Well on April 28, 1992
- 47.0 — Approximate Potentiometric Surface Elevation (Referenced to On-site Benchmark Assigned Arbitrary Elevation of 50.00 Feet)

N

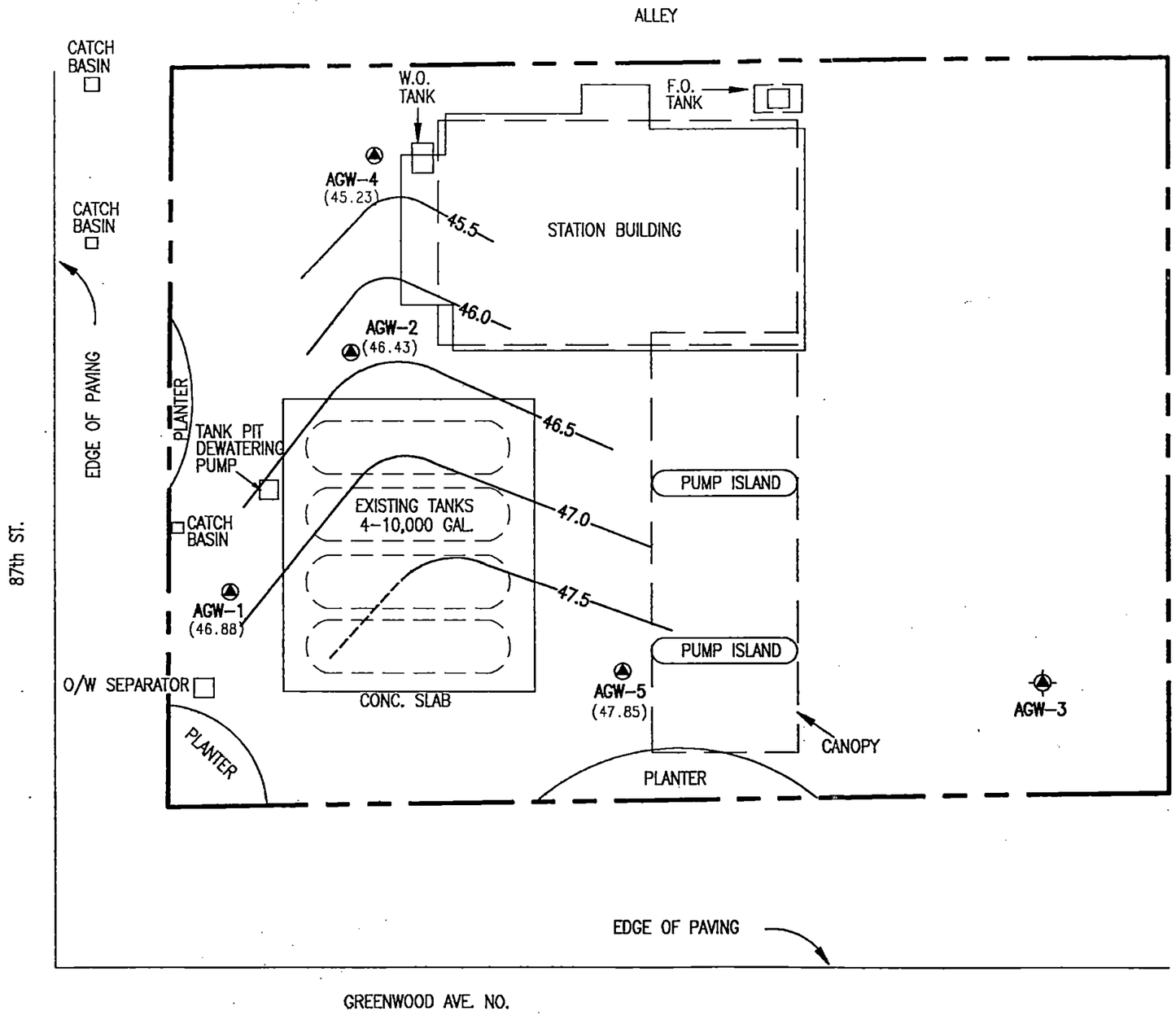
0 20 40

SCALE (ft)

EMCON Northwest, Inc.

DATE 3/3
DWN. JBG
REV.
APPR.
PROJECT NO.
0368-013.02

Figure 3A
87th ST. AND GREENWOOD AVE. NORTH
SEATTLE, WASHINGTON
POTENTIOMETRIC SURFACE MAP 04/28/92



LEGEND:

- AGW-1 — Monitoring Well Location and Well Number
- AGW-3 — Abandoned Monitoring Well Location and Well Number
- (46.88) — Measured Water Level in Monitoring Well on May 22, 1992
- 47.0 — Approximate Potentiometric Surface Elevation (Referenced to On-site Benchmark Assigned Arbitrary Elevation of 50.00 Feet)

N

0 20 40

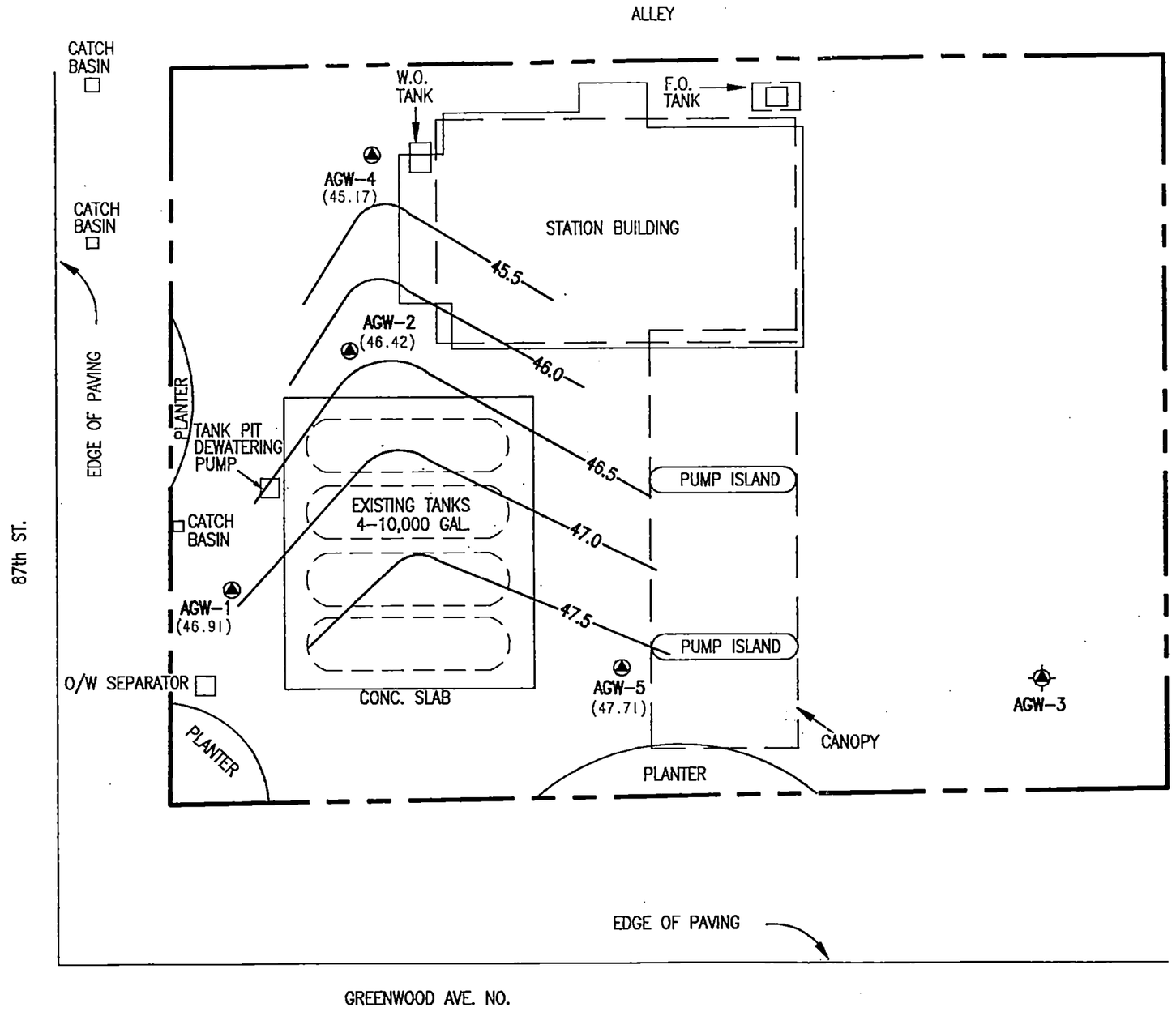
SCALE (ft)

EMCON Northwest, Inc.

DATE 3/3
DWN. JBG
REV.
APPR.
PROJECT NO.
0368-013.02

Figure 3B
87th ST. AND GREENWOOD AVE. NORTH
SEATTLE, WASHINGTON
POTENTIOMETRIC SURFACE MAP 05/22/92

L-20 0368\013\02C02 12-8-92



LEGEND:

- AGW-1 — Monitoring Well Location and Well Number
- AGW-3 — Abandoned Monitoring Well Location and Well Number
- (46.91) — Measured Water Level in Monitoring Well on June 30, 1992
- 47.0 — Approximate Potentiometric Surface Elevation (Referenced to On-site Benchmark Assigned Arbitrary Elevation of 50.00 Feet)

N

0 20 40

SCALE (ft)

EMCON Northwest, Inc.

DATE 3/3
DWN. JBG
REV.
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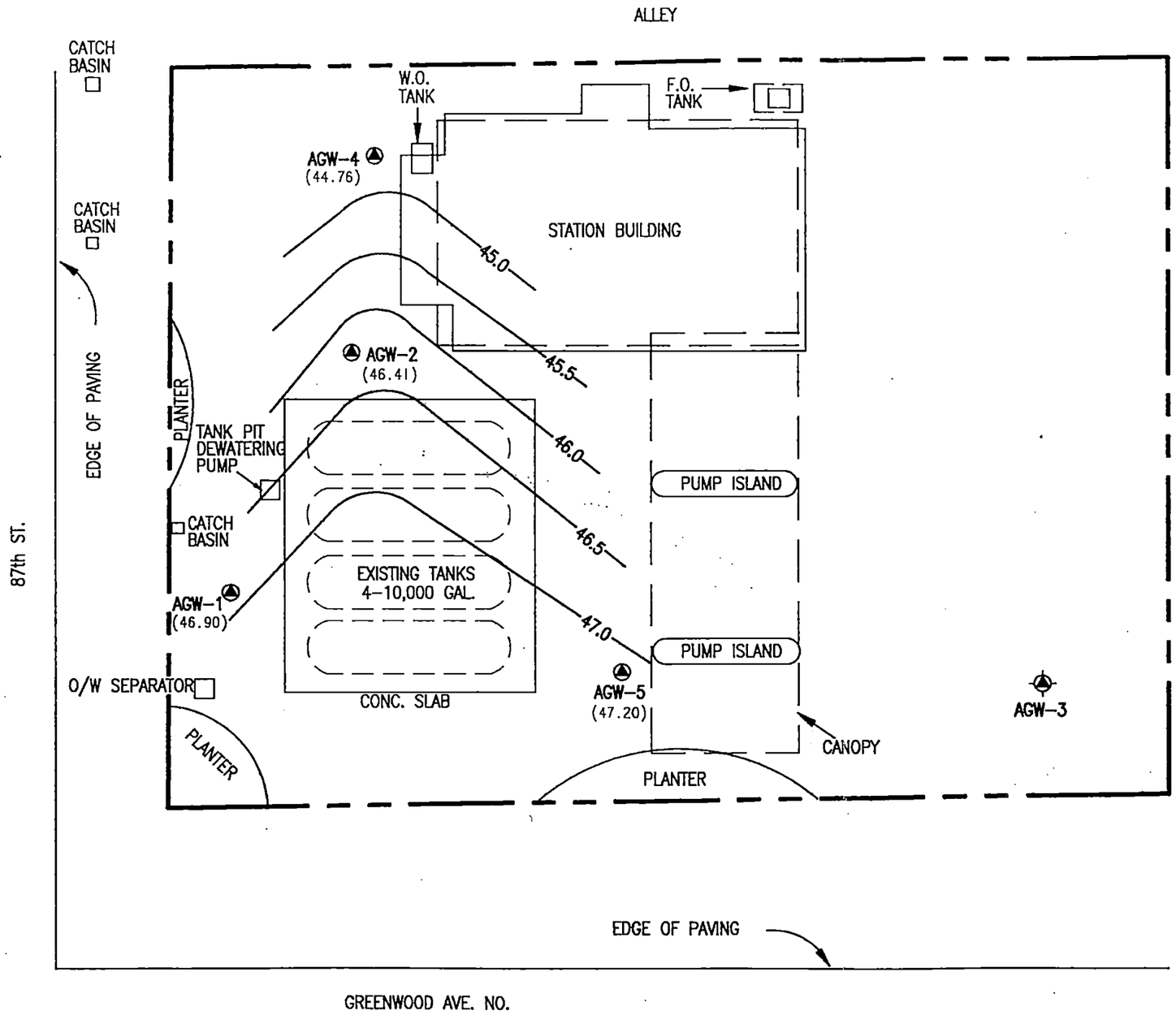
PROJECT NO.
0368-013.02

Figure 3C
87th ST. AND GREENWOOD AVE. NORTH
SEATTLE, WASHINGTON
POTENTIOMETRIC SURFACE MAP 06/30/92



LEGEND:

- AGW-1 — Monitoring Well Location and Well Number
- AGW-3 — Abandoned Monitoring Well Location and Well Number
- (46.90) — Measured Water Level in Monitoring Well on November 6, 1992
- 47.0 — Approximate Potentiometric Surface Elevation (Referenced to On-site Benchmark Assigned Arbitrary Elevation of 50.00 Feet)

N

0 20 40

SCALE (ft)

EMCON Northwest, Inc.

DATE	3/3
DWN.	JBG
REV.	
APPR.	
PROJECT NO.	0368-013.02

Figure 3D
87th ST. AND GREENWOOD AVE. NORTH
SEATTLE, WASHINGTON
POTENTIOMETRIC SURFACE MAP 11/06/92

I=20 0368\013\02C04 12-8-92

Appendix A

FIELD SAMPLING DATA

Job Number: 0368-013.02

EMCON Northwest, Inc.
18912 Northcreek Parkway #100
Bothell, Washington 98011-8016

Field Report Number: –

Page: 1 of 1

FIELD REPORT

Date: 11-6-92

PROJECT: Texaco Greenwood
8701 Greenwood Ave N.

ARRIVAL TIME: 09:35

LOCATION: Seattle, WA

DEPARTURE TIME: 16:37

CLIENT: Texaco

WEATHER: cloudy, rain, 50's

PURPOSE OF WORK/OBSERVATIONS: collect ground water measurements, samples; well maintnnce

EMCON REPRESENTATIVE: Tom Bodle

EMCON PROJECT MANAGER: Pat Brooks

Any conclusions and/or recommendations in this field report are subject to review by the EMCON Project Manager

COMMENTS: Measured depth to water, pH, conductivity, temperature in monitoring wells AGW-1, AGW-2, AGW-4, AGW-5. Collected ground water samples from same wells, delivered, on ice, to CAS lab in Bothell for analyses: ① TPH-G, BTEX for all wells, trip blank, field blank "06-11-06-92" and duplicate of AGW-1 as "06-11-06-92"; ② total lead for all wells and duplicate; ③ ethylene glycol for wells AGW-4, AGW-5 and ④ total coliform for well AGW-4.

Used ARO Pump with compressor to purge all wells of combined total of 135.5 gallons groundwater, stored in 3 labeled 55 gallon drums, n.w. corner of site.

Observed sheen in AGW-1, AGW-2.

Replaced well cap and lock on AGW-2, AGW-4. Observed monument cover bolt housing missing (x1) on AGW-1, AGW-2

Chain of custody, field sampling data sheets attached.

Polyethylene tubing left in all wells for future purge pump efficiency

By: Tom Bodle
EMCON Representative

Reviewed By: Pat Brooks
EMCON Project Manager

Pink – Field Copy Yellow – Project Manager White – Project Files

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS 8701 Greenwood Ave N, Seattle WA
PROJECT NAME Texaco Greenwood #0388 013 02 task 2
CLIENT/CONTACT

Well or Surface Site Number AGW-1
Sample Designation 01-11-06-92
Date, Time 11-6-92 12:50
Weather cloudy, mist 50's

HYDROLOGY MEASUREMENTS: 4"

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 5.5" = .46'	top = 47.36	11-6-92 10:49	Solinst #2
dtb = 11.90 (3-6-92)	wl = 46.90		
Δ = 18.94			

WELL EVACUATION: 1pv = 12.37 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
37.5	3+	pump	N/A	11-6-92 12:37

Surface Water Flow Speed ____ Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sample Cleaning Method
TPH	11-6-92	d.b =	3x40	VOA	N/A	N	HCl	Y	Non-Phosphatic detergent wash
BTEX		disposable	1						H2O rinse
		bailer							MeOH rinse
Total Pb	"	"	Nalgene	plastic	"	"	HNO_3	"	Distilled H2O rinse

FIELD WATER QUALITY TESTS: Corning Checkmate 90

Pore Vol. Number	pH	Conductivity	Temp	time Eh				
1	6.48	303 uS	14.6°C	12:28				
2	6.79	307	14.9	12.28				
3	6.70	292	14.7	12:37				

NOTES:

purge water observed sheen in well
clear, with p.v#2, to slightly silty
nasty odor, possibly hydrocarbon like (h.c.)
exc. recovery
bolt housing on manu. cover broken (1 of 2)

Total # of Bottles: 4 (also dup 03-11-06-92) Signature: T Bell

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

duplicate

LOCATION/ADDRESS _____
PROJECT NAME Texaco Greenwood #_____
CLIENT/CONTACT _____

Well or Surface Site Number AGW-1
Sample Designation 03-11-06-92
Date, Time 11-6-92 "1200"
Weather _____

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sampler Cleaning Method
WTPHG	11-6-92								Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
BTEX	12:00								

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Eh				

NOTES:

Duplicate of AGW-1, see AGW-1 field sampling data sheet.

Total # of Bottles: 4

Signature: Bradley

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS 8701 Greenwood Ave N
PROJECT NAME Texaco Greenwood #0368-013-02
CLIENT/CONTACT

Well or Surface Site Number AGW-2
Sample Designation 02-11-06-92
Date, Time 11-6-92 14:00
Weather cloudy misty 50's

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 4.18	top = 47.59	11-6-92 10:55	Solinst (#2)
dtb = 19.65 (3-6-92)	rel. = 46.41		
Δ = 18.47			

WELL EVACUATION: 1 pv = 12.06 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
37	3+	pump	N/A	11-6-92 13:49

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)
TPH	11-6-92	d.b.	2x40	VoA	N/A	N	HCl	Y
BTEX	14:00							
Total Pb	"		16oz	plastic	"	"	HNO_3	"

Sampler Cleaning Method: Non-Phosphatic detergent wash; H2O rinse; MeOH rinse; Distilled H2O rinse

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	Time Eh
1	6.43	577uS	11.7°C	13:28
2	6.73	435	11.2	13:37
3	6.99	426	13.9	13:49

NOTES:

purge water observed sheen in well
slightly silty, olive brown
sewage odor also possibly h.c. like
mod. to heavily silted at end of pv. #2, going dry?
mod silty at end pv. #3
replaced well cap and lock as in poor shape, seal may be bad
one bolt housing missing in monument cover assembly

Signature:

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

16:37
16:37

Field Sampling Data

LOCATION/ADDRESS
PROJECT NAME Exxco Greenwood #0368 01302
CLIENT/CONTACT

Well or Surface Site Number AGW-4
Sample Designation 04-11-06-92
Date, Time 11-6-92 16:00
Weather cloudy, misty 50s

HYDROLOGY MEASUREMENTS: 4"

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 3.21	top = 47.97	11-6-92 10:57	Solinst (#2)
dtb = 19.70 (3-6-92)	rel = 44.76		
Δ = 16.49			

WELL EVACUATION: 1 p.v. = 10.77 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
27	2.5	pump	N/A	11-6-92

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)
TPH	11-6-92 16:00	8.6	2x40	VOA	N/A	No	HCl	Yes
BTEX								
total Pb	"	"	1 pint	plastic	"	"	HNO_3	"
ethylene glycol	"		2x40	VOA	"	"	No	"
total coliform	"		?	whirl-pak	"	"	No	"

Sampler Cleaning Method: Non-Phosphatic detergent wash; H2O rinse; MeOH rinse; Distilled H2O rinse

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	time / pH
1	7.01	309 µs	14.2°C	13:10
2	7.30	312	14.3	14:55
3	6.63	310	13.3	15:48

NOTES:

purge water slightly silty, olive brown in color
observed sewage like odor
well running dry at end p.v. #1, allow to recover
" p.v. #2, " " "
" " #2.5, w/l sample
found no preservative (?) in total coliform bags
replaced lock and cap, could not unlock

Total # of Bottles: 6 Signature:

EMCON
Northwest, Inc.
18912 North Creek Parkway, Suite 210 ● Bothell, WA 98011
Office (206) 485-5000 ● FAX (206) 486-9766

Field Sampling Data

LOCATION/ADDRESS 8201 Greenwood
PROJECT NAME Tex. Greenwood #
CLIENT/CONTACT

Well or Surface Site Number AGW-5
Sample Designation 05-11-06-92
Date, Time 11-06-92 14:40
Weather cloudy misty 50's

HYDROLOGY MEASUREMENTS: 4"

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
dtw = 2.27	top = 49.47	11-6-92 10:53	Solinst (#2)
dtb = 19.50 (3-6-92)	rel = 47.20		
Δ = 17.23			

WELL EVACUATION: 1 p.v. = 11.25 gallon

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
34	3+	pump	N/A	11-6-92 14:25

Surface Water Flow Speed N/A Measurement Method N/A Date, Time N/A

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)
TPH	11-6-92	d.b	3x40	VOA	N/A	N	HCl	Y
BTEX	14:40							
total Pb	"	"	16oz	plastic	"	"	HNO3	"
ethylene glycol	"	"	3x40	VOA	"	"	none	"

Sampler Cleaning Method: Non-Phosphatic detergent wash; H2O rinse; MeOH rinse; Distilled H2O rinse

FIELD WATER QUALITY TESTS:

Pore Vol. Number	pH	Conductivity	Temp	time En				
1	6.27	262 µS	14.9	11:53				
2	7.01	258 µS	13.5	14:20				
3	7.11	259 µS	13.8	14:25				

NOTES:

purge water: clear to slightly silty cannot distinguish color
observed a musty odor cannot discern if hydro carbon like
well going dry at ~ 1.5 p.v (i.e. p.v # 1.5)
clear at end of pv #2
slightly silty at end of pv #3

Total # of Bottles: 7 Signature: Brett

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

Field Sampling Data

field blank

LOCATION/ADDRESS (Texaco) 801 Greenwood N. Seattle
PROJECT NAME Texaco Greenwood # 0368 013 02
CLIENT/CONTACT

Well or Surface Site Number N/A
Sample Designation 06-11-06-92
Date, Time 11-6-92 15:00
Weather cloudy mist 50s

HYDROLOGY MEASUREMENTS:

(Nearest .01 ft.)	Elevation	Date, Time	Method Used (M-Scope Number or Other)
N/A			

WELL EVACUATION:

Gallons	Pore Volumes	Method Used	Rinse Method	Date, Time
N/A				

Surface Water Flow Speed _____ Measurement Method _____ Date, Time _____

SAMPLING:

Sample	Date, Time	Method	Volume (ml)	Container Type	Depth Taken (feet)	Field Filtered (yes,no)	Preservative	Iced (yes,no)	Sample Cleaning Method
11-6-92	11-6-92	d.b	2x40	VOA	N/A	N	HCl	Y	Non-Phosphatic detergent wash H2O rinse MeOH rinse Distilled H2O rinse
WTPH-G	1500								
BTEX									

~~FIELD WATER QUALITY TESTS:~~ N/A

Pore Vol. Number	pH	Conductivity	Temp	Eh				

NOTES:

field blank collected after 3x rinse of plastic bailer with "certified" distilled water (1 gallon jug)

Total # of Bottles: 2 Signature:

Appendix B

LABORATORY REPORTS AND CHAIN-OF-CUSTODY FORM

Columbia Analytical Services inc.

November 18, 1992 Work Order No.: B920622

Pat Brooks
EMCON Northwest
18912 N Creek Parkway
Suite 210
Bothell, WA 98011

Re: **Texaco Greenwood/Project #0368-013-02**

Dear Pat:

Enclosed are the results of the samples submitted to our laboratory on November 6, 1992. For your reference, this service request has been assigned our work order number B920622.

All analyses were performed in accordance with our laboratory's quality assurance program.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Michael C. Higgins
Laboratory Manager

MCH/bdr

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	EMCON Northwest	**Date Collected:**	11/06/92
Project:	Texaco Greenwood	**Date Received:**	11/06/92
Sample Matrix:	Water	**Work Order No.:**	B920622

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

Sample Name:		01-11-06-92	02-11-06-92	03-11-06-92
Lab Code:		B0622-1	B0622-2	B0622-3
Date Analyzed:		11/11/92	11/10/92	11/11/92
Analyte	**MRL**			
Benzene	0.5	95.1	152	98.0
Toluene	1	260	98	260
Ethylbenzene	1	1,400	175	1,400
Total Xylenes	1	8,200	804	8,300
TPH as Gasoline	50	37,000	3,230	37,000

TPH Total Petroleum Hydrocarbons
MRL Method Reporting Limit
ND None Detected at or above the method reporting limit

Approved by _____ Date 12/11/19

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	EMCON Northwest	**Date Collected:**	11/06/92
Project:	Texaco Greenwood	**Date Received:**	11/06/92
Sample Matrix:	Water	**Work Order No.:**	B920622

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

Sample Name:		04-11-06-92	05-11-06-92	06-11-06-92
Lab Code:		B0622-4	B0622-5	B0622-6
Date Analyzed:		11/10/92	11/10/92	11/10/92
Analyte	**MRL**			
Benzene	0.5	20.9	ND	ND
Toluene	1	13	ND	ND
Ethylbenzene	1	4	ND	ND
Total Xylenes	1	17	ND	ND
TPH as Gasoline	50	90	ND	ND

TPH Total Petroleum Hydrocarbons
MRL Method Reporting Limit
ND None Detected at or above the method reporting limit

Approved by _____ Date 12/11/92

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	EMCON Northwest	**Date Collected:**	11/06/92
Project:	Texaco Greenwood	**Date Received:**	11/06/92
Sample Matrix:	Water	**Work Order No.:**	B920622

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

Sample Name:		Trip Blank	Method Blank
Lab Code:		B0622-7	B0622-MB
Date Analyzed:		11/10/92	11/10/92
Analyte	**MRL**		
Benzene	0.5	ND	ND
Toluene	1	ND	ND
Ethylbenzene	1	ND	ND
Total Xylenes	1	ND	ND
TPH as Gasoline	50	ND	ND

TPH Total Petroleum Hydrocarbons
MRL Method Reporting Limit
ND None Detected at or above the method reporting limit

Approved by _____ Date 9/11/19

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	EMCON Northwest	**Date Collected:**	11/06/92
Project:	Texaco Greenwood	**Date Received:**	11/06/92
Sample Matrix:	Water	**Date Analyzed:**	11/10,11/92
		Work Order No.:	B920622

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

Sample Name	Lab Code	Spike Level (ug/L)	Percent Recovery α,α,α-Trifluorotoluene
01-11-06-92	B0622-1	500	116
02-11-06-92	B0622-2	500	101
03-11-06-92	B0622-3	500	117
04-11-06-92	B0622-4	500	101
05-11-06-92	B0622-5	500	100
05-11-06-92	B0622-5MS	500	100
06-11-06-92	B0622-6	500	100
Trip Blank	B0622-7	500	101
Method Blank	B0622-MB	500	101
Laboratory Control Sample	B0622-LCS	500	111
	CAS Acceptance Criteria		50-130

TPH Total Petroleum Hydrocarbons

Approved by _____ Date 12/11/19

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	EMCON Northwest	**Date Collected:**	11/06/92
Project:	Texaco Greenwood	**Date Received:**	11/06/92
Sample Matrix:	Water	**Date Analyzed:**	11/10/92
		Work Order No.:	B920622

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

Sample Name: Batch QC
Lab Code: B0617-2

Analyte	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference
Benzene	0.5	112	108	110	4
Toluene	1	1	ND	--	--
Ethylbenzene	1	1	1	1	<1
Total Xylenes	1	7	7	7	<1
TPH as Gasoline	50	50	50	50	<1

TPH Total Petroleum Hydrocarbons
MRL Method Reporting Limit
ND None Detected at or above the method reporting limit

Approved by _____ Date 9/11/19

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	EMCON Northwest	**Date Collected:**	11/06/92
Project:	Texaco Greenwood	**Date Received:**	11/06/92
Sample Matrix:	Water	**Date Analyzed:**	11/10/92
		Work Order No.:	B920622

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

Sample Name: 05-11-06-92
Lab Code: B0622-5

Analyte	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Criteria
Benzene	100	ND	98	98	51-159
Toluene	100	ND	97	97	50-156
Ethylbenzene	100	ND	98	98	49-157

ND None Detected at or above the method reporting limit

Approved by _____ Date 921119

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	EMCON Northwest	**Date Analyzed:**	11/10/92
Project:	Texaco Greenwood	**Work Order No.:**	B920622
LCS Matrix:	Water		

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

Analyte	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Criteria
TPH as Gasoline	4,900	4,670	95	70-140

TPH Total Petroleum Hydrocarbons

Approved by _____ Date 12/11/92

Columbia Analytical Services inc.
1317 South 13th Ave. • Kelso, WA 98626 • (206) 577-7222, FAX (206) 636-1068

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 11-6-92 PAGE _____ OF _____

PROJECT NAME Texaco Greenwood # 0368-013-02
PROJECT MNGR. Brooks
COMPANY/ADDRESS EMCON
PHONE 485-5000
SAMPLERS SIGNATURE Tom Bodle

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS	TPH/Gas/BTEX 5030/8015/8020 Gas ☒ BTEX ☒	Semi VOA ☐ VOA ☐ Herb ☐ Metals (total or dissolved)	ethylene glycol	total coliform	REMARKS
01-11-06-92	11-6-92	12:50	1	water	4	✓	✓			
02-11-06-92		14:00	2	TB	4	✓	✓			
03-11-06-92		12:00	3		4	✓	✓			
04-11-06-92		16:00	4		6	✓	✓	✓	✓	95 per P. Brooks TB disregard
05-11-06-92		14:40	5		7	✓	✓			
06-11-06-92		15:00	6		2	✓				
trip blank	↓	N/A	7	↓	1	✓				

RELINQUISHED BY:
Signature: Tom Bodle
Printed Name: Tom Bodle
Firm: EMCON
Date/Time: 11-6-92 17:40

RECEIVED BY:
Signature: Barbara D. Regan
Printed Name: Barbara D. Regan
Firm: CAS/Bothell
Date/Time: 11-06-92 1740

TURNAROUND REQUIREMENTS:
___ 24 hr ___ 48 hr ___ 5 day
✓ Standard (~ 10-15 working days)
___ Provide Verbal Preliminary Results
___ Provide FAX Preliminary Results
Requested Report Date _____

REPORT REQUIREMENTS
___ I. Routine Report
___ II. Report (includes DUP,MS, MSD, as required, may be charged as samples)
___ III. Data Validation Report (includes All Raw Data)
___ IV. CLP Deliverable Report

INVOICE INFORMATION:
P.O. # _____
Bill to: _____

SAMPLE RECEIPT:
Shipping VIA: _____
Shipping #: _____
Condition: _____
Lab No.: BG2-0627

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

SPECIAL INSTRUCTIONS/COMMENTS:

* total lead

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

400-05

Columbia Analytical Services, Inc.

November 28, 1992

Pat Brooks
EMCON Northwest, Inc.
18912 North Creek Parkway, Suite 210
Bothell, WA 98011

Re: **Texaco - Greenwood/Project #0368-013-02/B920622**

Dear Pat:

Enclosed are the results of the samples submitted to our laboratory on November 6, 1992. For your reference, these analyses have been assigned our work order number K927092B.

All analyses were performed in accordance with our laboratory's quality assurance program. Reproduction of reports is allowed only in whole, not in part. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Colin B. Elliott
Senior Project Chemist

CBE/akn

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	EMCON Northwest, Inc.	**Date Received:**	11/06/92
Project:	Texaco - Greenwood	**Date Analyzed:**	11/13/92
Sample Matrix:	Water	**Work Order No.:**	K927092B

Total Lead
EPA Method 7421
µg/L (ppb)

Sample Name	Lab Code	MRL	Result
01-11-06-92	K7092-1	2	ND
02-11-06-92	K7092-2	2	ND
03-11-06-92	K7092-3	2	ND
04-11-06-92	K7092-4	2	ND
05-11-06-92	K7092-5	2	ND
Method Blank	K7092-MB	2	ND

MRL Method Reporting Limit
ND None Detected at or above the method reporting limit

Approved by John Elliott Date 11/30/92

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	EMCON Northwest, Inc.	**Date Received:**	11/06/92
Project:	Texaco - Greenwood	**Date Analyzed:**	11/23/92
Sample Matrix:	Water	**Work Order No.:**	K927092B

Ethylene Glycol
EPA Method Modified 8015
mg/L (ppm)

Sample Name	Lab Code	MRL	Result
04-11-06-92	K7092-4	10	ND
05-11-06-92	K7092-5	10	ND
Method Blank	K7092-MB	10	ND

MRL Method Reporting Limit
ND None Detected at or above the method reporting limit

Approved by Chris Ellis Date 11/30/92

APPENDIX A

LABORATORY QC RESULTS

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	EMCON Northwest, Inc.	**Date Received:**	11/06/92
Project:	Texaco - Greenwood	**Date Analyzed:**	11/13/92
Sample Matrix:	Water	**Work Order No.:**	K927092B

Duplicate Summary
Total Lead
EPA Method 7421
µg/L (ppb)

Sample Name	Lab Code	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference
01-11-06-92	K7092-1	2	ND	2	NC	NC

MRL	Method Reporting Limit
ND	None Detected at or above the method reporting limit
NC	Not Calculated

Approved by Ann Ellis Date 11/30/92

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	EMCON Northwest, Inc.	**Date Received:**	11/06/92
Project:	Texaco - Greenwood	**Date Analyzed:**	11/13/92
Sample Matrix:	Water	**Work Order No.:**	K927092B

Matrix Spike Summary
Total Lead
EPA Method 7421
µg/L (ppb)

Sample Name	Lab Code	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Criteria
01-11-06-92	K7092-1	2	20	ND	21	105	75-125

MRL Method Reporting Limit
ND None Detected at or above the method reporting limit

Approved by John Elliott Date 11/30/92

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	EMCON Northwest, Inc.	**Date Received:**	11/06/92
Project:	Texaco - Greenwood	**Date Analyzed:**	11/23/92
Sample Matrix:	Water	**Work Order No.:**	K927092B

Matrix Spike/Duplicate Matrix Spike Summary
Ethylene Glycol
EPA Method Modified 8015
mg/L (ppm)

Sample Name: 05-11-06-92
Lab Code: K7092-5

Analyte	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	Relative Percent Difference
Ethylene Glycol	25	25	7J	33	31	104	96	6

J Estimated value below the method reporting limit, but above the instrument detection limit.

Approved by Colin Ellwood Date 11/30/92

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Northwest, Inc.
Project: Texaco - Greenwood
LCS Matrix: Water

Date Analyzed: 11/23/92
Work Order No.: K927092B

Laboratory Control Sample Summary
Ethylene Glycol
EPA Method Modified 8015
mg/L (ppm)

Analyte	True Value	Result	Percent Recovery
Ethylene Glycol	50	49	98

Approved by Colin Elliott Date 11/30/92

Columbia Analytical Services inc.
1317 South 13th Ave. • Kelso, WA 98626 • (206) 577-7222, FAX (206) 636-1068

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 11-6-92 PAGE _____ OF _____

PROJECT NAME Texaco Greenwood # 0368-013-02
PROJECT MNGR Brooks
COMPANY/ADDRESS EMCON
PHONE 485-5000
SAMPLERS SIGNATURE Tom Bodle

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS	TPH/Gas/BTEX 5030/8015/8020 Gas ☒ BTEX ☒	Semi Pest/ TCLP Metals ☐ VOA ☐ VOA ☐ Herb ☐ Metals (total or dissolved) Last Below *	ethylene glycol	total coliforms	REMARKS
01-11-06-92	11-6-92	12:50	K7052-1	water	4	✓	✓			
02-11-06-92		14:00	-2	TB	4	✓	✓			
03-11-06-92		12:00	-3		4	✓	✓			
04-11-06-92		16:00	-4		6	✓	✓	✓ ✗		99 per P. BROOKS 11-9-92
05-11-06-92		14:40	-5		7	✓	✓	✓ ■		disregard TB
06-11-06-92		15:00	6		2	✓				
trip blank	↓	N/A	7	↓	1	✓				

RELINQUISHED BY:
Signature: Tom Bodle
Printed Name: Tom Bodle
Firm: EMCON
Date/Time: 11-6-92 17:40

RECEIVED BY:
Signature: Barbara D. Regan
Printed Name: Barbara D. Regan
Firm: CAS/Bothell
Date/Time: 11-06-92 1740

RELINQUISHED BY:
Signature: Barbara D. Regan
Printed Name: Barbara D. Regan
Firm: CAS/Bothell
Date/Time: 11-09-92 1500

RECEIVED BY:
Signature: Lance Jordin
Printed Name: Lance Jordin
Firm: CAS
Date/Time: 11/10/92 11:00

TURNAROUND REQUIREMENTS:
___ 24 hr ___ 48 hr ___ 5 day
✓ Standard (~ 10-15 working days)
___ Provide Verbal Preliminary Results
___ Provide FAX Preliminary Results
Requested Report Date _____

REPORT REQUIREMENTS
___ I. Routine Report
___ II. Report (includes DUP, MS, MSD, as required, may be charged as samples)
___ III. Data Validation Report (includes All Raw Data)
___ IV. CLP Deliverable Report

INVOICE INFORMATION:
P.O. # _____
Bill to: _____

SAMPLE RECEIPT:
Shipping VIA: _____
Shipping #: _____
Condition: _____
K92-7052B
Lab No.: BA2-0622

SPECIAL INSTRUCTIONS/COMMENTS:
* total lead

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

400-05