



July 21, 2000

Mr. Brian Sato P.E.
Northwest Regional Office
Washington State Department of Ecology
3190 160th Avenue SE
Bellevue, WA 98008-5452

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DEPT. OF ECOLOGY

**RE: DECEMBER 1999 AND JUNE 2000 GROUNDWATER SUMMARY REPORT
QUEEN ANN TEXACO
SEATTLE, WASHINGTON
FARALLON PN: 619-010**

Dear Mr. Sato:

Farallon Consulting, L.L.C. (Farallon) has prepared this Groundwater Summary report on behalf of Texaco to provide the analytical results of groundwater samples collected at the Queen Ann Texaco site (herein referenced as site)(Figure 1). Groundwater samples were collected from all of the accessible wells, with the exception of the recovery wells on December 14 and 15, 1999 and June 13 and 14, 2000. The groundwater samples were collected to determine the distribution and concentrations of total petroleum hydrocarbons (TPHs) in groundwater at the site.

ANALYTICAL DATA

Historical Groundwater Data

The historical groundwater analytical data provided in the *Phase 1 Remedial Investigation Report Monterey Apartments* dated August 1991 prepared by Ecology and Environment Inc; and in the *Monterey Apartments, Groundwater Monitoring, October 1995 – November 1997* dated 1998 prepared by Washington State Department of Ecology (Ecology) are summarized on Table 1. Analytical results of groundwater samples collected by Farallon in December 1999 and June 2000 are also included in Table 1. The well locations are shown on Figure 2.

The historical groundwater sampling was not conducted on a regularly scheduled basis nor was every well sampled. Table 1 summarizes the available data. It should be noted that there are a significant number of data gaps in the historical groundwater analytical results.

Recent Groundwater Data

Farallon collected groundwater samples in December 1999 and in June 2000. The laboratory analytical reports for the groundwater samples collected by Farallon are attached in Appendix A and summarized on Table 1. Farallon measured the depth to groundwater in all of the wells; water level measurements are presented in Table 2.



December 1999 Groundwater Monitoring

The groundwater samples collected by Farallon in December 1999 were analyzed for gasoline range hydrocarbons by Ecology method NWTPH-Gx, benzene, toluene, ethyl benzene, and xylenes (BTEX) by EPA method 8021B, diesel and oil range hydrocarbons by Ecology method NWTPH-Dx, total lead, dissolved lead, and dissolved manganese by EPA 6000/7000 Series Methods, nitrate-nitrogen and sulfate by EPA Method 300.0, and ferrous iron by PSEP. A summary of the analytical results of the December 1999 sampling was submitted to Ecology in a letter dated January 11, 2000 that is included in Appendix B of this report.

Farallon replaced well caps on most of the wells and replaced padlocks on all of the wells. The monument on monitoring well MW-10 was stripped and not properly sealed. Water from the street had accumulated inside the well monument and may have been seeping into the well. Farallon repaired the monument lid and replaced the well cap.

The site plans provided to Farallon did not provide consistent and accurate well designations or identification numbers. Farallon revised the site plan based upon the boring logs and information gathered from a variety of previous site plans of the site, as shown on Figure 2. The well designations used on Table 1 and Figure 2 are consistent for the site and will be used for all future reporting.

Farallon surveyed the top of casing elevations of each well on January 6, 2000 and calculated a direction of groundwater flow using the depth to groundwater measurements collected in December 1999. The direction of shallow groundwater flow appears to be to the west-southwest. The groundwater flow is most likely affected by underground structures such as the basement of the Monterey Apartments and sewer lines between the buildings. Groundwater levels encountered in wells VP-9 and MW-10 were shallower than the groundwater levels in wells MW-6 and MW-9 (Table 2, Figure 2). Based on Farallon's review of the boring log data from these wells, it appears that the on-site wells may be screened across more than one water-bearing zone.

The groundwater wells were developed by purging at least three well casing volumes prior to collection of the groundwater samples for laboratory analysis. The purge water from the wells that did not contain light non aqueous phase liquid (LNAPL) was placed in the on-site water storage tank which is now full. Purge water from wells with LNAPL was placed in a sealed and labeled 55-gallon drum that is currently stored inside the remediation compound. Groundwater samples were not collected from VP-1, VP-4 and MW-6 due to the presence of LNAPL in these wells.

June 2000 Groundwater Monitoring

Farallon collected groundwater samples and depth to groundwater measurements from the groundwater monitoring and vapor extraction wells at the site in June 2000. The analytical results of the groundwater samples collected in June 2000 are presented in Table 1. The groundwater samples were analyzed for gasoline range hydrocarbons by Ecology method NWTPH-Gx, BTEX by EPA method 8021B, diesel and oil range hydrocarbons by Ecology method NWTPH-Dx, and total and dissolved lead by EPA 6000/7000 Series Methods. Groundwater samples were not collected from VP-1 and MW-6 due to the presence of LNAPL in these wells.

Light Phase Non-Aqueous Liquid (LNAPL) Measurements

Ecology and Environment, Inc. measured LNAPL in September 1990 in MW-6 (0.81 feet), RW-1 (0.41 feet) and RW-2 (0.04 feet) (Figure 2). RW-1 was later abandoned and replaced by the current RW-4.



According to the *Monterey Apartments Ground Water Monitoring, October 1995 – November 1997* report prepared by Ecology, dated May 1998, “MW-6 was not sampled past January 1997 because it consistently contained a layer of free product floating on the ground water surface.” It appears that during the sampling period referenced by Ecology, LNAPL thickness in MW-6 averaged 1-foot, with a maximum thickness of 3-feet in April 1997. Whether LNAPL was observed in MW-6 at every sampling event is not clearly stated in the report prepared by Ecology.

Farallon measured LNAPL in VP-1, VP-4, VP-6, RW-4, and MW-6 (Figure 2) during the December 1999 and June 2000 monitoring events as summarized on Table 2. The wells with measurable LNAPL during the December 1999 sampling event were VP-1 (0.27 feet), VP-4 (0.01 feet), RW-4 (0.42 feet), and MW-6 (0.08 feet). VP-6 was not accessible at the time of the December sampling event due to a parked vehicle.

The wells with measurable LNAPL during the June 2000 sampling event were VP-6 (1.4 to 1.5 feet), MW-6 (0.1 feet), and RW-4 (0.5 feet). Measurable LNAPL was not observed in VP-1 and VP-4 during the June 2000 monitoring event (Table 2).

Absorbent socks were inserted into VP-1, VP-4, VP-6, MW-6, and RW-2 to recover LNAPL in these wells between groundwater monitoring events. The absorbent socks were removed from these wells monthly and placed in a sealed and labeled container currently stored within the remediation compound pending disposal.

Groundwater Analytical Results

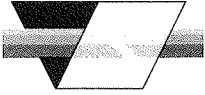
The results of the historical and recent groundwater monitoring events are presented below by areas: Monterey Apartments (off-site) and Manhattan Express (on-site).

Monterey Apartments

As shown in Figure 2, vapor wells VP-1 through VP-8, monitoring well MW-4, and recovery wells RW-2, RW-3, and RW-5 are located along the north and south sides of the Monterey Apartment building. Figure 3 summarizes the analytical results for the groundwater samples collected in June 2000.

MW-4 is located on the north side of the Monterey Apartments and VP-7 (previously labeled MW-3) is located directly south of MW-4 on the south side of the Monterey Apartments, as shown in Figure 2. The highest gasoline range hydrocarbon and BTEX concentrations have consistently been detected in these two wells. A significant increase in gasoline range hydrocarbon and BTEX concentrations in VP-7/MW-3 was noted between the March 1991 sampling event and the October 1995 sampling event (Table 1). There has not been a significant change in gasoline range hydrocarbon and BTEX concentrations from 1995 through 2000 in the groundwater samples collected from VP-7/MW-3. There has been no significant change in the gasoline range hydrocarbons and BTEX concentrations in MW-4 from 1991 through 2000 (Table 1). The groundwater samples collected from these two wells have consistently had high gasoline range hydrocarbons and BTEX concentrations over the nine-year period without a significant change.

Based on the available information, it appears that groundwater samples were not collected from wells VP-1, VP-2, VP-3, VP-4, VP-5 and VP-6 during the 1991, 1995 and 1997 monitoring events, with the exception of VP-5 (recorded as MW-5) which was sampled in the 1991 monitoring event. Historical groundwater data from these wells are limited. The benzene and toluene concentrations in VP-5 have decreased significantly since 1991; however, ethyl benzene and xylenes have increased since 1991. There is no 1991 gasoline range hydrocarbon data for comparison in VP-5.



VP-1 and VP-2 are located east of MW-4 between the Del Roy Apartments and the Monterey Apartments (Figure 2). LNAPL was observed in VP-1 during the December 1999 monitoring event; therefore, the groundwater sample collected from VP-1 was not analyzed. Groundwater samples have historically not been analyzed for diesel range hydrocarbons. Diesel concentrations in groundwater samples collected from VP-1 and VP-2 in December 1999 and June 2000 have been significantly higher than the gasoline concentrations in these wells.

VP-4 and VP-6 are located on the south side of the Monterey Apartment building and directly south of VP-1 and VP-2, respectively. A thin layer of LNAPL was observed in VP-4 at the time of the December 1999 monitoring event; therefore, a groundwater sample was not collected from VP-4. The June 2000 analytical results show that the gasoline range hydrocarbons and BTEX concentrations detected in the groundwater sample from VP-4 are similar to those seen in groundwater samples from VP-5. VP-6 was not accessible in December 1999 due to a parked vehicle, but LNAPL was observed in VP-6 during the June 2000 monitoring event; therefore, a groundwater sample has not been collected from VP-6. VP-6 was not accessible during previous monitoring events.

There was no measurable groundwater in VP-3 at the time of the December 1999 and June 2000 monitoring events. Gasoline range hydrocarbons and BTEX concentrations in VP-8 (formerly MW-7) have varied over the nine-year period, which could be related to historical mislabeling between VP-3 and VP-8. No measurable LNAPL or sheen was observed in RW-2 during the December 1999 and June 2000 monitoring events.

Manhattan Express

As shown on Figure 2, wells RW-4, MW-6, MW-9, MW-10, and VP-9 are located on the periphery of the Manhattan Express parking lot. Figure 3 summarizes the analytical results of groundwater samples collected in December 1999 and June 2000.

VP-9 was not sampled during the 1991, 1995 and 1997 monitoring events. Concentrations of total petroleum hydrocarbons in the gasoline, diesel, and oil ranges, and BTEX in groundwater have been below the Ecology Model Toxics Control Act (MTCA) Method A cleanup level for groundwater or not detected above the laboratory detection limits, with the exception of ethyl benzene concentrations, which was slightly elevated at the time of the June 2000 monitoring event.

Gasoline and BTEX concentrations have typically been below the MTCA Method A cleanup levels for groundwater, in groundwater samples from MW-10 throughout the recorded 9-year period. These low concentrations could be due to the inadequate monument seal and seepage of surface water from the street into the well casing.

BTEX concentrations show an overall reduction since the March 1991 monitoring event in groundwater samples collected from MW-9, with the exception of ethyl benzene, which has shown no significant changes. Gasoline range hydrocarbons have fluctuated between 3,400 and 9,100 ug/l since the 1995 monitoring event. Diesel range hydrocarbons were not reported from 1991 through 1997. Groundwater samples have not historically been tested for diesel range hydrocarbons. Diesel range hydrocarbon concentrations in groundwater samples collected from MW-9 in the December 1999 and June 2000 were higher than the gasoline range hydrocarbon concentrations (Table 1).



There appears to have been an overall reduction of LNAPL in MW-6 since 1991. At the time of the December 1999 and June 2000 sampling events, RW-4 had approximately the same product thickness that was measured in the former adjacent RW-1 in 1991 (Table 2).

CONCLUSIONS

Based upon Farallon's evaluation of the historical groundwater analytical results from 1991 through 1997 and the analytical results of groundwater samples collected in December 1999 and June 2000, the gasoline range hydrocarbon and BTEX concentrations in the groundwater samples collected from VP-7 and MW-4, located to the west-southwest of the Manhattan Express site, have consistently been the highest concentrations in groundwater at the site. Overall, gasoline range hydrocarbon and BTEX concentrations in groundwater have not decreased significantly in any of the wells sampled since 1995.

Groundwater samples were not historically analyzed for diesel range hydrocarbons. Farallon's recent groundwater monitoring results show that diesel range hydrocarbon concentrations were present in VP-1 at 75,000 micrograms/liter ($\mu\text{g/l}$), VP-2 at 29,900 $\mu\text{g/l}$, and MW-9 at 8,510 $\mu\text{g/l}$. Diesel range hydrocarbon concentrations present in the other wells tested are typically above 1,000 $\mu\text{g/l}$ and below 3,400 $\mu\text{g/l}$, with the exception of MW-10, where diesel range hydrocarbons were not detected or were below 353 $\mu\text{g/l}$. These results indicate that there has likely been a release of diesel in addition to gasoline.

Farallon trusts that this report provides sufficient information to meet your present needs. Feel free to contact either of the undersigned at (425) 427-0061 if you have any questions.

Sincerely,

Farallon Consulting, L.L.C.

Timothy S. Brown
Project Geologist

Peter Jewett
Principal

Attachments

Table 1
Table 2
Figure 1
Figure 2
Figure 3
Appendix A
Appendix B

cc: Jeff Goold, Equiva Services, L.L.C
Mike Nesteroff, Lane Powell Spears Lubersky
Mark Myers, William Kastner & Gibbs
Bert Hyde, Equipose Corp. N.W.
Patti Thompson, Davis Wright Tremaine

TB/PJ:th

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
March 1991 through June 2000
QUEEN ANN TEXACO
FARALLON PN: 619-010

Monitoring Well	VP-1 ¹								VP-2							
	Mar-91 ²	Oct-95	Jan-97	Apr-97	Jul-97	Nov-97	Dec-99	Jun-00	Mar-91	Oct-95	Jan-97	Apr-97	Jul-97	Nov-97	Dec-99	Jun-00
	micrograms/liter (µg/L)															
Gasoline Range Hydrocarbons	- ³	-	-	-	-	-	-	5,000	-	-	-	-	-	-	5,980	2,030
Benzene	-	-	-	-	-	-	-	21.6	-	-	-	-	-	-	935	45.9
Toluene	-	-	-	-	-	-	-	14.4	-	-	-	-	-	-	345	16.2
Ethyl benzene	-	-	-	-	-	-	-	32.8	-	-	-	-	-	-	43.8	ND
Xylenes	-	-	-	-	-	-	-	435	-	-	-	-	-	-	305	196
m&p - xylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-xylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diesel Range Hydrocarbons	-	-	-	-	-	-	-	75,600	-	-	-	-	-	-	29,900	2,810
	milligrams/liter (mg/l)															
Oil Range Hydrocarbons	-	-	-	-	-	-	-	ND ⁴	-	-	-	-	-	-	ND	ND
Lead (total)	-	-	-	-	-	-	-	0.334	-	-	-	-	-	-	0.262	0.0378
Lead (dissolved)	-	-	-	-	-	-	-	0.0339	-	-	-	-	-	-	0.0617	0.00987
Maganese	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate-Nitrogen (mg/l as N)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

- 1 - Well designations have historically varied. The designations used here are consistent with the designations shown on Figure 1, (well designations in () indicate previous labeling).
- 2 - Date groundwater samples were collected. Mar-91 from Ecology and Environment, Oct-95 through Nov-97 from Ecology, Dec-99 - Jun-00 from Farallon.
- 3 - (-) = sample not analyzed.
- 4 - ND = not detected above laboratory detection limits.
- E - The analyte was not detected at or above the report value.
- J - The analyte was positively identified. The associated numerical result is an estimate.
- P - The analyte was detected above the instrument detection limit but below the established minimum quantitation limit.
- U - The analyte was not detected at or above the reported value.
- RA - Reported as m&p xylene and o-xylene, total xylene not reported.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
March 1991 through June 2000
QUEEN ANN TEXACO
FARALLON PN: 619-010

Monitoring Well	VP-4								VP-5 (MW-5)							
	Mar-91	Oct-95	Jan-97	Apr-97	Jul-97	Nov-97	Dec-99	Jun-00	Mar-91	Oct-95	Jan-97	Apr-97	Jul-97	Nov-97	Dec-99	Jun-00
(ug/l)																
Gasoline Range Hydrocarbons	-	-	-	-	-	-	-	26,400	-	-	-	-	-	-	23,400	25,600
Benzene	-	-	-	-	-	-	-	1,020	5,300	-	-	-	-	-	841	793
Toluene	-	-	-	-	-	-	-	3,270	1,300	-	-	-	-	-	191	155
Ethyl benzene	-	-	-	-	-	-	-	890	900	-	-	-	-	-	1,480	1,380
Xylenes	-	-	-	-	-	-	-	6,160	4,600	-	-	-	-	-	7,720	5,690
m&p - xylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-xylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diesel Range Hydrocarbons	-	-	-	-	-	-	-	1,850	-	-	-	-	-	-	2,490	1,340
(mg/l)																
Oil Range Hydrocarbons	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	ND	ND
Lead (total)	-	-	-	-	-	-	-	0.00912	-	-	-	-	-	-	0.00676	0.00375
Lead (dissolved)	-	-	-	-	-	-	-	0.00466	-	-	-	-	-	-	0.00275	0.00266
Maganese	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate-Nitrogen (mg/l as N)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
March 1991 through June 2000
QUEEN ANN TEXACO
FARALLON PN: 619-010

Monitoring Well	VP-7 (MW-3)								VP-8 (MW-7)							
	Mar-91	Oct-95	Jan-97	Apr-97	Jul-97	Nov-97	Dec-99	Jun-00	Mar-91	Oct-95	Jan-97	Apr-97	Jul-97	Nov-97	Dec-99	Jun-00
<u>(ug/l)</u>																
Gasoline Range Hydrocarbons	-	33,000	51,000	53,000	37,000	34,000	73,400	54,400	-	3,100	8,000	18,000	9,100J	830J	7,640	233
Benzene	3,700	11,700	12,400	11,100	11,000	15,900	16,800	10,000	280	2.5	816	605	96	5.6	540	1.1
Toluene	1,600	2,330	5,200	4,800	3,700	3,600	9,670	8,230	510	1.2	824	786	246	7	927	1.81
Ethyl benzene	740	1,070	990	1,400	1,500	1,500	1,890	1,380	130	3	26	119	52	11	201	1.95
Xylenes	3,500	4,130	RA	RA	RA	RA	10,500	7,470	1,100	16	RA	RA	RA	RA	1,430	7.99
m&p - xylene	-	-	3,700	5,400	5,200	4,800	-	-	-	-	412	1,260	706	23	-	-
o-xylene	-	-	1,500	2,200	1,900	1,800	-	-	-	-	182	514	274	9.6	-	-
Diesel Range Hydrocarbons	-	-	-	-	-	-	3,310	931	-	-	-	-	-	-	2,780	2,280
<u>(mg/l)</u>																
Oil Range Hydrocarbons	-	-	-	-	-	-	ND	ND	-	-	-	-	-	-	ND	ND
Lead (total)	-	0.0056P	0.0099	0.0034	0.0043J	0.005	0.00591	-	-	0.0034P	0.037	0.0246	0.023	0.0127	0.0406	0.0177
Lead (dissolved)	-	-	-	-	-	-	0.00211	0.00213	-	-	-	-	-	-	0.00502	0.00795
Maganese	-	-	-	-	-	-	7.76	-	-	-	-	-	-	-	-	-
Ferrous Iron	-	-	-	-	-	-	11.7	-	-	-	-	-	-	-	-	-
Nitrate-Nitrogen (mg/l as N)	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
Sulfate	-	-	-	-	-	-	13.4	-	-	-	-	-	-	-	-	-

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
March 1991 through June 2000
QUEEN ANN TEXACO
FARALLON PN: 619-010

Monitoring Well	VP-9								MW-4							
	Mar-91	Oct-95	Jan-97	Apr-97	Jul-97	Nov-97	Dec-99	Jun-00	Mar-91	Oct-95	Jan-97	Apr-97	Jul-97	Nov-97	Dec-99	Jun-00
(ug/l)																
Gasoline Range Hydrocarbons	-	-	-	-	-	-	118	474	-	95,000	88,000	100,000	120,000	89,000	73,300	74,400
Benzene	-	-	-	-	-	-	ND	4.97	10,000	19,600E	12,900	14,300	19,600	17,500	13,700	14,400
Toluene	-	-	-	-	-	-	ND	ND	12,000	12,000	12,400	14,500	19,700	16,000	13,500	9,440
Ethyl benzene	-	-	-	-	-	-	ND	55.6	500	2,070	1,400	1,700	2,100	1,900	1,830	1,840
Xylenes	-	-	-	-	-	-	ND	4.48	9,800	10,800	RA	RA	RA	RA	11,000	10,800
m&p - xylene	-	-	-	-	-	-	-	-	-	-	7,500	7.8	9,300	8,800	-	-
o-xylene	-	-	-	-	-	-	-	-	-	-	3,100	3,200	3,800	3,400	-	-
Diesel Range Hydrocarbons	-	-	-	-	-	-	ND	1,420	-	-	-	-	-	-	3,340	3,390
(mg/l)																
Oil Range Hydrocarbons	-	-	-	-	-	-	ND	ND	-	-	-	-	-	-	ND	ND
Lead (total)	-	-	-	-	-	-	0.00572	0.0152	-	0.0306	0.0365	0.0207	0.0195	0.0162	0.0198	0.0214
Lead (dissolved)	-	-	-	-	-	-	ND	ND	-	-	-	-	-	-	0.00986	0.00972
Maganese	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.5	-
Ferrous Iron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.15	-
Nitrate-Nitrogen (mg/l as N)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-
Sulfate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
March 1991 through June 2000
QUEEN ANN TEXACO
FARALLON PN: 619-010

Monitoring Well	MW-6								MW-9							
	Mar-91	Oct-95	Jan-97	Apr-97	Jul-97	Nov-97	Dec-99	Jun-00	Mar-91	Oct-95	Jan-97	Apr-97	Jul-97	Nov-97	Dec-99	Jun-00
(ug/l)																
Gasoline Range Hydrocarbons	-	-	-	-	-	-	-	-	-	3,400	4,400	9,100	2,200J	5,000	4,460	4,740
Benzene	25,000	12,000E	7,290	-	-	-	-	-	1,600	3,520	2,600	2,980	2,680	2,010	831	786
Toluene	29,000	13,800E	12,400	-	-	-	-	-	2,900	70J	53	173	127	80	22.4	26
Ethyl benzene	2,500	920	2,340	-	-	-	-	-	250	200U	310	413	460	334	274	274
Xylenes	19,000	5,690	-	-	-	-	-	-	3,100	10,800	RA	RA	RA	RA	138	156
m&p - xylene	-	4,170	14,200	-	-	-	-	-	-	-	7,500	7,800	9,300	8,800	-	-
o-xylene	-	1,520	5,600	-	-	-	-	-	-	-	3,100	3,200	3,800	3,400	-	-
Diesel Range Hydrocarbons	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,510	6,070
(mg/l)																
Oil Range Hydrocarbons	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Lead (total)	-	-	-	-	-	-	-	-	-	0.0046P	-	0.0068	0.0086J	0.0033	0.015	0.00786
Lead (dissolved)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00103	0.00159
Maganese	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.5	-
Ferrous Iron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.15	-
Nitrate-Nitrogen (mg/l as N)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
March 1991 through June 2000
QUEEN ANN TEXACO
FARALLON PN: 619-010

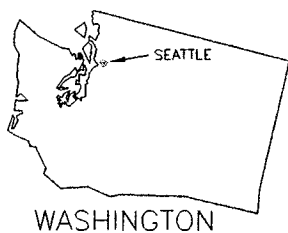
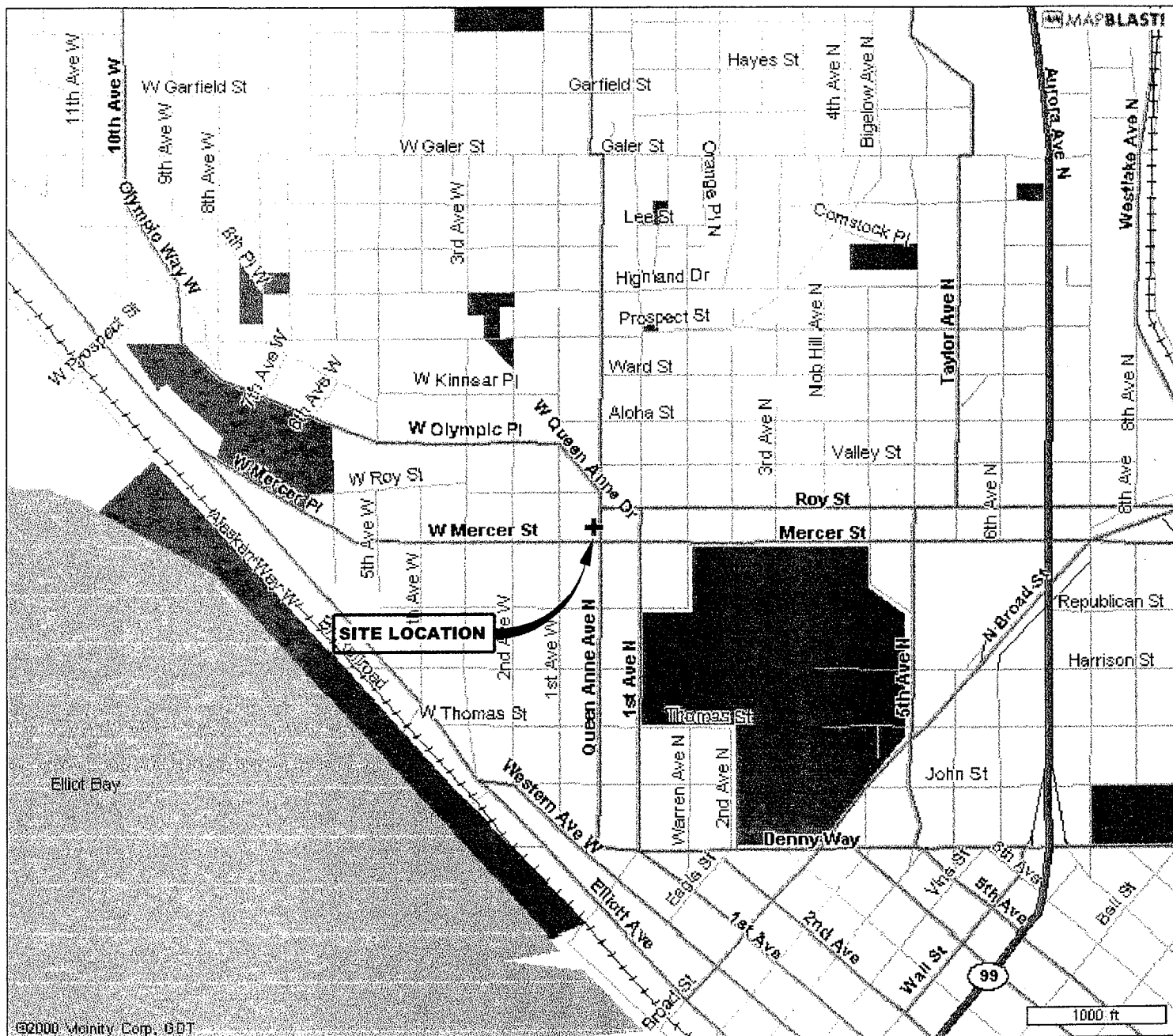
Monitoring Well	MW-10								RW-2							
	Mar-91	Oct-95	Jan-97	Apr-97	Jul-97	Nov-97	Dec-99	Jun-00	Mar-91	Oct-95	Jan-97	Apr-97	Jul-97	Nov-97	Dec-99	Jun-00
<u>(ug/l)</u>																
Gasoline Range Hydrocarbons	-	780	180	420	1,100	1,000	618	99.2	-	-	390	11,000	24,000	4,400	-	-
Benzene	5U	1.8	1.5	5.1	10	4.2	7.02	1.56	19,000	-	31	189	4,230	3,140	-	-
Toluene	5U	2.9	1U	1	2.1	2	ND	ND	46,000	-	14	243	2,490	1,200	-	-
Ethyl benzene	5U	0.82J	1U	1U	2.4	4.8	ND	ND	2,500	-	6	99	398	338	-	-
Xylenes	5U	5.6	RA	RA	RA	RA	ND	ND	120,000	-	RA	RA	RA	RA	-	-
m&p - xylene	-	-	2U	2.0J	3.8	1.6	-	-	-	-	31	540	1,960	1,670	-	-
o-xylene	-	-	1U	1.4U	0.54J	0.6J	-	-	-	-	18	203	772	595	-	-
Diesel Range Hydrocarbons	-	-	-	-	-	-	353	ND	-	-	-	-	-	-	-	-
<u>(mg/l)</u>																
Oil Range Hydrocarbons	-	-	-	-	-	-	ND	ND	-	-	-	-	-	-	-	-
Lead (total)	-	0.001U	-	0.001U	0.0012J	0.0049	ND	ND	-	-	-	-	-	-	-	-
Lead (dissolved)	-	-	-	-	-	-	ND	ND	-	-	-	-	-	-	-	-
Maganese	-	-	-	-	-	-	5.12	-	-	-	-	-	-	-	-	-
Ferrous Iron	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
Nitrate-Nitrogen (mg/l as N)	-	-	-	-	-	-	0.72	-	-	-	-	-	-	-	-	-
Sulfate	-	-	-	-	-	-	70.6	-	-	-	-	-	-	-	-	-

TABLE 2
SUMMARY OF GROUNDWATER LEVEL DATA
QUEEN ANN TEXACO
FARALLON PN:619-010

Well Identification	Top of Well Casing (feet) ¹	1/13/00			6/13/00			6/26/00		
		Depth to Water (feet bgs ²)	Groundwater Elevation (feet)	Product Thickness (feet)	Depth to Water (feet bgs)	Groundwater Elevation (feet)	Product Thickness (feet)	Depth to Water (feet bgs)	Groundwater Elevation (feet)	Product Thickness (feet)
VP-1	103.03	P ³	P	0.27	11.58	91.45	0	11.55	91.48	0
VP-2	104.72	12.15	92.57	0	12.42	92.3	0	12.41	92.31	0
VP-3	104.75	8.72	96.03	0	8.38	96.37	0	Dry	Dry	0
VP-4	103.35	P	P	0.01	11.67	91.68	0	11.77	91.58	0
VP-5	102.63	11.16	91.47	0	11.24	91.39	0	11.25	91.38	0
VP-6	101.9	P	P	NM ⁴	P	P	1.5	P	P	1.4
VP-7	100.4	9.4	91	0	9.49	90.91	0	9.51	90.89	0
VP-8	104.88	11.23	93.65	0	11.1	93.78	0	11.85	93.03	0
VP-9	112.35	8.41	103.94	0	8.92	103.43	0	9.66	102.69	0
MW-4	102.07	10.86	91.21	0	10.97	91.1	0	10.96	91.11	0
MW-6	113.32	P	P	0.08	P	P	NM	P	P	0.10
MW-9	114.27	19.58	94.69	0	19.87	94.4	0	19.76	94.51	0
MW-10	115.28	12.82	102.46	0	13.38	101.9	0	13.34	101.94	0
RW-2	106.63	9.35	97.28	0	9.13	97.5	0	12.29	94.34	0
RW-3	100.7	9.59	91.11	0	9.67	91.03	0	9.68	89.74	0
RW-4	110.82	P	P	0.42	P	P	NM	P	P	0.5
RW-5	104.22	10.98	93.24	0	11.26	92.96	0	11.26	92.96	0

Notes:

- 1- wells surveyed relative to on-site datum
- 2- bgs = below ground surface
- 3- P = no water level measurement due to the presence of LNAPL
- 4- NM = product not measured due to vehicles parked over the wells




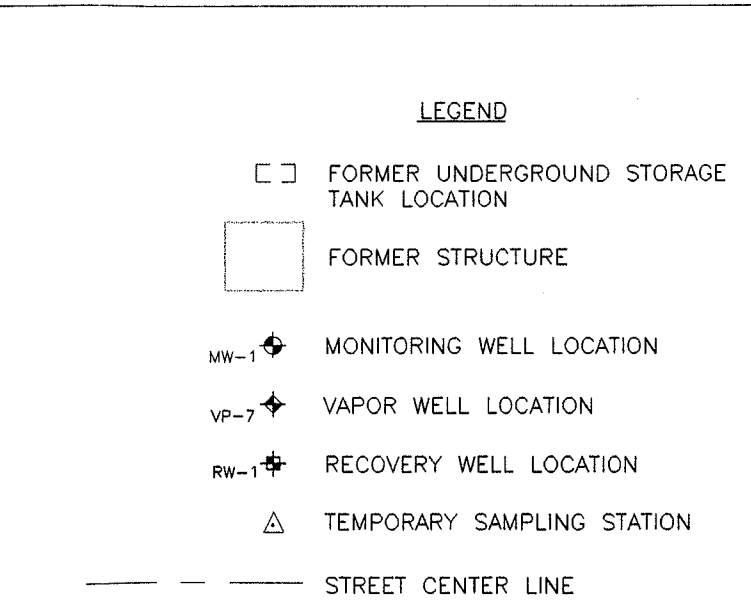
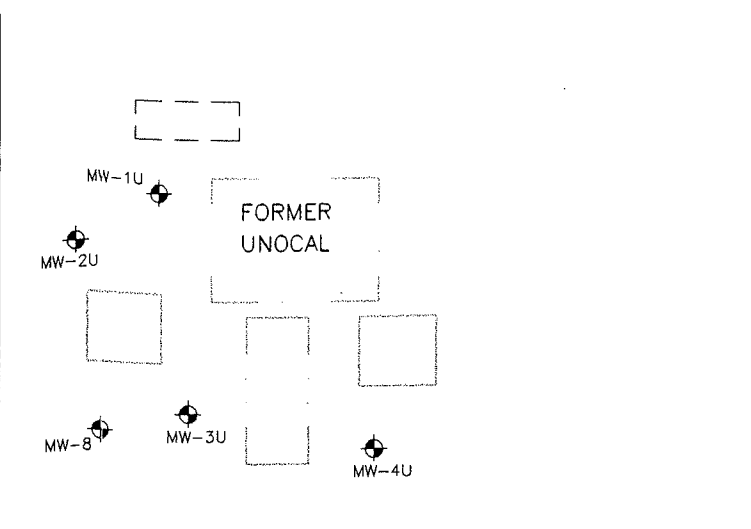
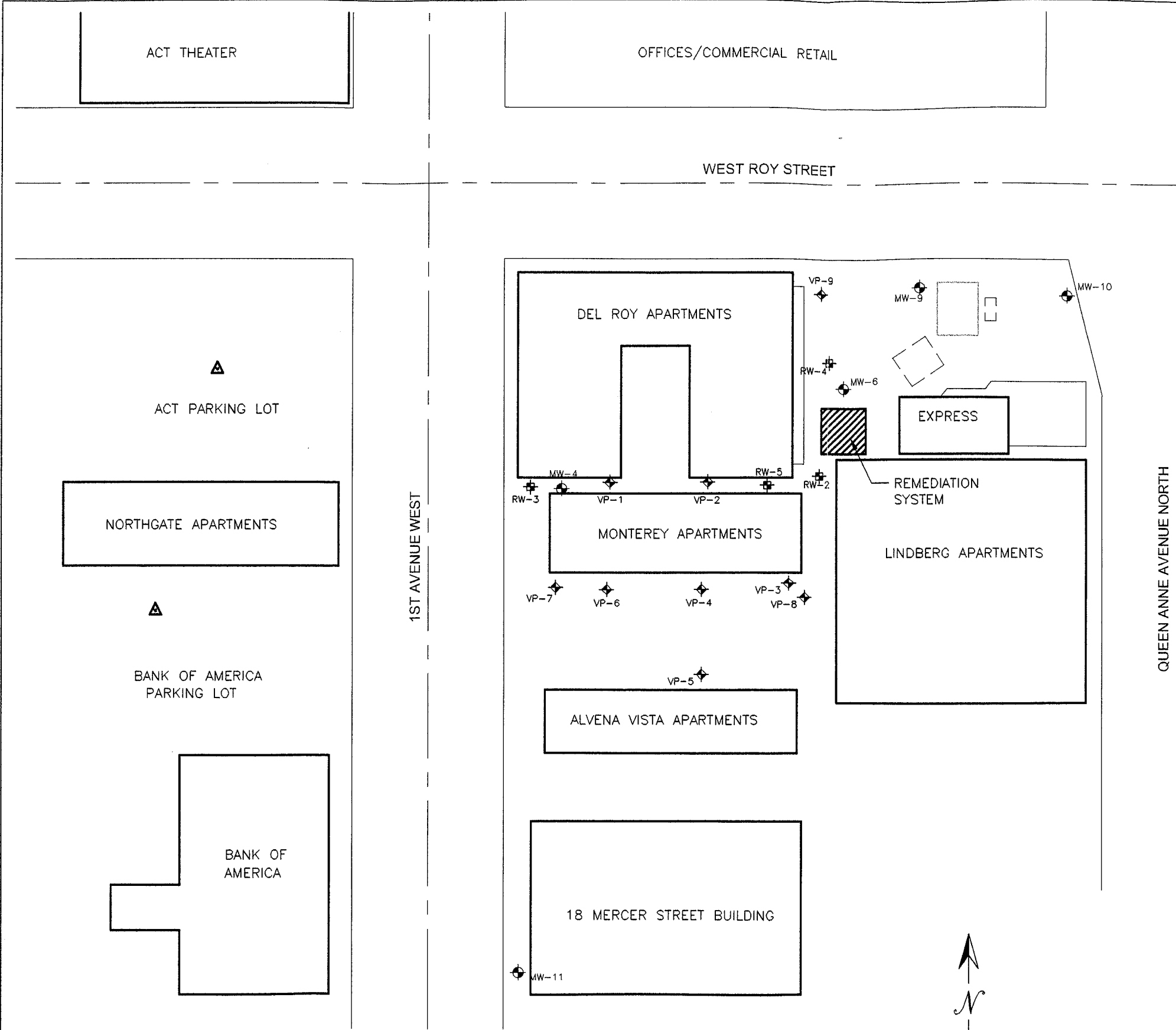
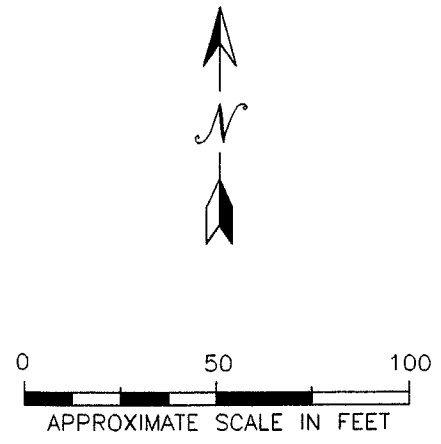

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 320 3rd Ave. NE, Suite 200
 Issaquah, WA 98027


FIGURE 1
 SITE VICINITY MAP
 QUEEN ANNE TEXACO
 631 QUEEN ANNE AVE. NORTH
 SEATTLE, WA.
 FARALLON PN: 619-010

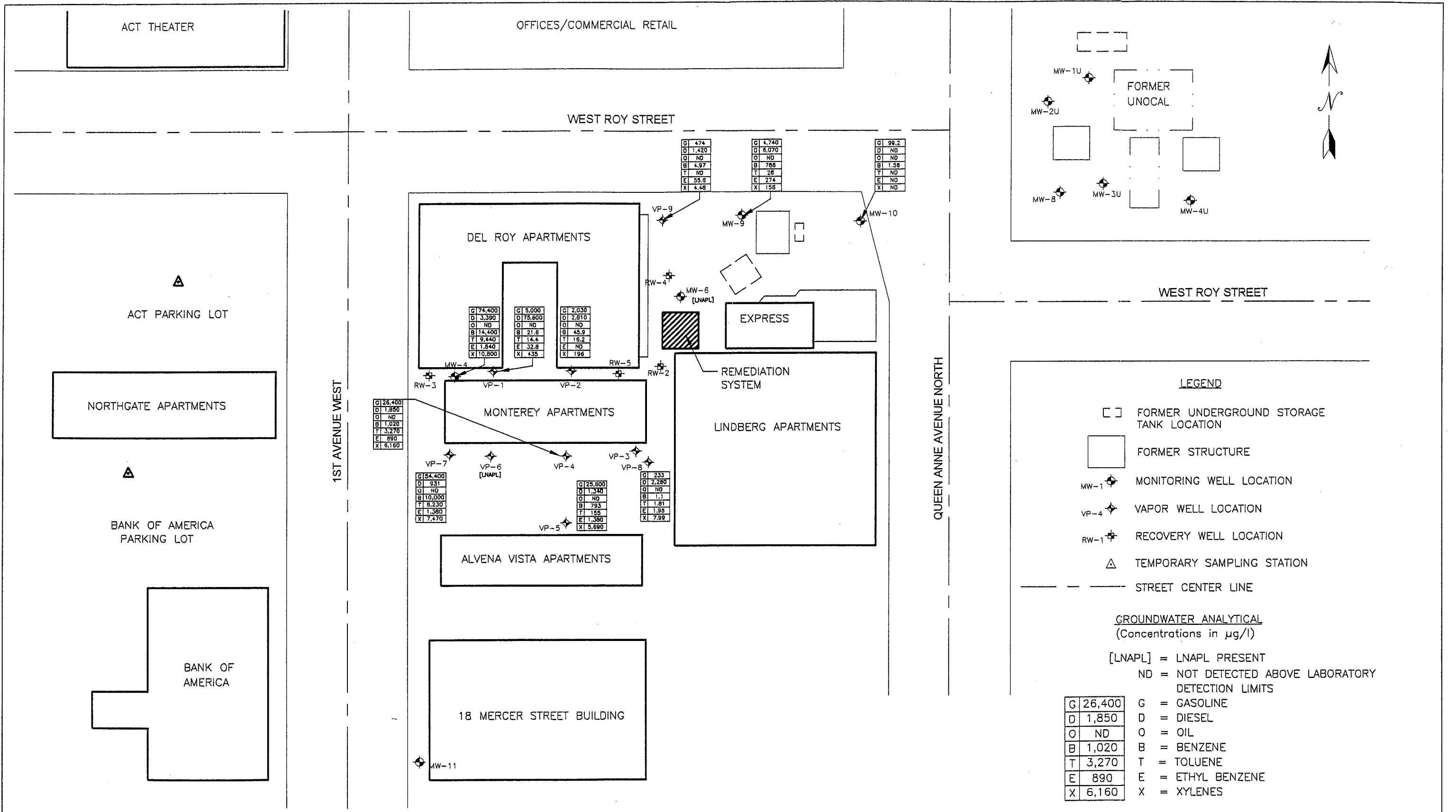
Drawn By: QDD	Checked By: CS	Date: 6/26/00	Disk Reference: 619-001
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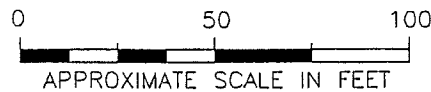
BASE MAP REFERENCE: City of Seattle Department of Engineering
 SE 1/4 & NE 1/4 Section 25-TS. 25 N., R 3 E., W.M.
 Revised 9/90



 FARALLON CONSULTING <small>320 3rd Avenue NE, Suite 200 Issaquah, WA 98027</small>	FIGURE 2	
	SITE MAP WITH ADJACENT PROPERTIES QUEEN ANNE TEXACO 631 QUEEN ANNE AVE. NORTH SEATTLE, WASHINGTON FARALLON PN: 619-010-002	
Drawn By: QDD	Checked By: PJ	Date: 1/07/00 Disk Reference: 619010



BASE MAP REFERENCE: City of Seattle Department of Engineering
SE 1/4 & NE 1/4 Section 25-TS. 25 N., R 3 I., W.M.
Revised 9/90



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FIGURE 3

GROUNDWATER ANALYTICAL CONCENTRATIONS
JUNE 2000 SAMPLE EVENT
QUEEN ANNE TEXACO
631 QUEEN ANNE AVE. NORTH
SEATTLE, WASHINGTON

FARALLON PN: 619-010

Drawn By: QDD	Checked By: PJ	Date: 7/18/00	Disk Reference: 61901001
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APPENDIX A



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541.383.9310 fax 541.382.7588

28 December, 1999

Peter Jewett
Farallon Consulting LLC
320 Third Avenue NE, Suite 200
Issaquah, WA 98027

RE: Queen Ann Texaco

Enclosed are the results of analyses for samples received by the laboratory on 12/16/99 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kirk Gendron
Project Manager

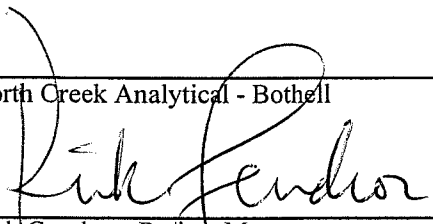


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Farallon Consulting LLC 320 Third Avenue NE, Suite 200 Issaquah WA, 98027	Project: Queen Ann Texaco Project Number: 619-010-003 Project Manager: Peter Jewett	Reported: 12/28/99 14:40
---	---	-----------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VP-7	B9L0316-01	Water	12/14/99 15:15	12/16/99 14:15
VP-9	B9L0316-02	Water	12/15/99 09:30	12/16/99 14:15
MW-9	B9L0316-03	Water	12/15/99 10:20	12/16/99 14:15
MW-10	B9L0316-04	Water	12/15/99 11:30	12/16/99 14:15
MW-4	B9L0316-05	Water	12/15/99 13:35	12/16/99 14:15
VP-5	B9L0316-06	Water	12/15/99 15:10	12/16/99 14:15
VP-8	B9L0316-07	Water	12/15/99 15:50	12/16/99 14:15
VP-2	B9L0316-08	Water	12/15/99 16:00	12/16/99 14:15

North Creek Analytical - Bothell

 Kirk Gendron, Project Manager

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Farallon Consulting LLC
 320 Third Avenue NE, Suite 200
 Issaquah WA, 98027

Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

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
VP-7 (B9L0316-01) Water Sampled: 12/14/99 15:15 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	73400	10000	ug/l	200	9L17005	12/17/99	12/17/99	NWTPH-Gx/8021B	
Benzene	16800	100	"	"	"	"	"	"	
Toluene	9670	100	"	"	"	"	"	"	
Ethylbenzene	1890	100	"	"	"	"	"	"	
Xylenes (total)	10500	200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		90.6 %	50-150		"	"	"	"	
Surrogate: 4-BFB (PID)		100 %	50-150		"	"	"	"	
VP-9 (B9L0316-02) Water Sampled: 12/15/99 09:30 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	118	50.0	ug/l	1	9L17005	12/17/99	12/17/99	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		89.2 %	50-150		"	"	"	"	
Surrogate: 4-BFB (PID)		100 %	50-150		"	"	"	"	
MW-9 (B9L0316-03) Water Sampled: 12/15/99 10:20 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	4460	1000	ug/l	20	9L17005	12/17/99	12/17/99	NWTPH-Gx/8021B	
Benzene	831	10.0	"	"	"	"	"	"	
Toluene	22.4	10.0	"	"	"	"	"	"	
Ethylbenzene	274	10.0	"	"	"	"	"	"	
Xylenes (total)	138	20.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		89.6 %	50-150		"	"	"	"	
Surrogate: 4-BFB (PID)		103 %	50-150		"	"	"	"	

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Kirk Gendron, Project Manager

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Environmental Laboratory Network

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 320 Third Avenue NE, Suite 200
 Issaquah WA, 98027

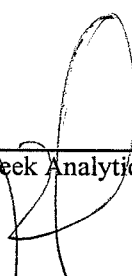
Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (B9L0316-04) Water Sampled: 12/15/99 11:30 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	618	50.0	ug/l	1	9L17005	12/17/99	12/17/99	NWTPH-Gx/8021B	
Benzene	7.02	0.500	"	"	"	"	"	"	
Toluene	ND	0.910	"	"	"	"	"	"	R-03
Ethylbenzene	ND	0.850	"	"	"	"	"	"	R-03
Xylenes (total)	ND	4.22	"	"	"	"	"	"	R-03
Surrogate: 4-BFB (FID)		102 %	50-150		"	"	"	"	
Surrogate: 4-BFB (PID)		98.5 %	50-150		"	"	"	"	
MW-4 (B9L0316-05) Water Sampled: 12/15/99 13:35 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	73300	10000	ug/l	200	9L17005	12/17/99	12/17/99	NWTPH-Gx/8021B	
Benzene	13700	100	"	"	"	"	"	"	
Toluene	13500	100	"	"	"	"	"	"	
Ethylbenzene	1830	100	"	"	"	"	"	"	
Xylenes (total)	11000	200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		87.9 %	50-150		"	"	"	"	
Surrogate: 4-BFB (PID)		99.2 %	50-150		"	"	"	"	
VP-5 (B9L0316-06) Water Sampled: 12/15/99 15:10 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	23400	250	ug/l	5	9L17005	12/17/99	12/17/99	NWTPH-Gx/8021B	
Benzene	841	25.0	"	50	"	"	12/18/99	"	
Toluene	191	2.50	"	5	"	"	12/17/99	"	
Ethylbenzene	1480	25.0	"	50	"	"	12/18/99	"	
Xylenes (total)	7720	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		119 %	50-150		"	"	12/17/99	"	
Surrogate: 4-BFB (PID)		99.6 %	50-150		"	"	"	"	

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Farallon Consulting LLC
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Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

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
VP-8 (B9L0316-07) Water Sampled: 12/15/99 15:50 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	7640	2500	ug/l	50	9L17005	12/17/99	12/18/99	NWTPH-Gx/8021B	
Benzene	540	25.0	"	"	"	"	"	"	
Toluene	927	25.0	"	"	"	"	"	"	
Ethylbenzene	201	25.0	"	"	"	"	"	"	
Xylenes (total)	1430	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		87.5 %	50-150		"	"	"	"	
Surrogate: 4-BFB (PID)		98.5 %	50-150		"	"	"	"	
VP-2 (B9L0316-08) Water Sampled: 12/15/99 16:00 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	5980	1000	ug/l	20	9L17005	12/17/99	12/17/99	NWTPH-Gx/8021B	
Benzene	935	10.0	"	"	"	"	"	"	
Toluene	345	10.0	"	"	"	"	"	"	
Ethylbenzene	43.8	10.0	"	"	"	"	"	"	
Xylenes (total)	305	20.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		85.4 %	50-150		"	"	"	"	
Surrogate: 4-BFB (PID)		100 %	50-150		"	"	"	"	

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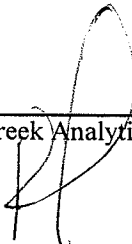
Farallon Consulting LLC
 320 Third Avenue NE, Suite 200
 Issaquah WA, 98027

Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VP-7 (B9L0316-01) Water Sampled: 12/14/99 15:15 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	3.31	0.250	mg/l	1	9L18001	12/18/99	12/20/99	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP		95.0 %	50-150		"	"	"	"	
VP-9 (B9L0316-02) Water Sampled: 12/15/99 09:30 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	9L18001	12/18/99	12/20/99	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP		85.8 %	50-150		"	"	"	"	
MW-9 (B9L0316-03) Water Sampled: 12/15/99 10:20 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	8.51	0.250	mg/l	1	9L18001	12/18/99	12/20/99	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP		74.0 %	50-150		"	"	"	"	
MW-10 (B9L0316-04) Water Sampled: 12/15/99 11:30 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	0.353	0.250	mg/l	1	9L20014	12/20/99	12/22/99	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP		74.2 %	50-150		"	"	"	"	
MW-4 (B9L0316-05) Water Sampled: 12/15/99 13:35 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	3.34	0.250	mg/l	1	9L20014	12/20/99	12/21/99	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP		79.5 %	50-150		"	"	"	"	
VP-5 (B9L0316-06) Water Sampled: 12/15/99 15:10 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	2.49	0.250	mg/l	1	9L20014	12/20/99	12/22/99	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP		94.0 %	50-150		"	"	"	"	

North Creek Analytical - Bothell

 Kirk Gendron, Project Manager

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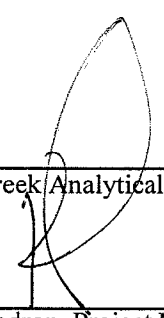
Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VP-8 (B9L0316-07) Water Sampled: 12/15/99 15:50 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	2.78	0.250	mg/l	1	9L20014	12/20/99	12/21/99	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP		65.6 %	50-150		"	"	"	"	
VP-2 (B9L0316-08) Water Sampled: 12/15/99 16:00 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	29.9	1.25	mg/l	5	9L20014	12/20/99	12/22/99	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	2.50	"	"	"	"	"	"	
Surrogate: 2-FBP		67.2 %	50-150		"	"	"	"	

North Creek Analytical - Bothell



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Farallon Consulting LLC
 320 Third Avenue NE, Suite 200
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Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

Total Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VP-7 (B9L0316-01) Water Sampled: 12/14/99 15:15 Received: 12/16/99 14:15									
Lead	0.00591	0.00100	mg/l	1	9L17012	12/17/99	12/22/99	EPA 6020	
VP-9 (B9L0316-02) Water Sampled: 12/15/99 09:30 Received: 12/16/99 14:15									
Lead	0.00572	0.00100	mg/l	1	9L17012	12/17/99	12/21/99	EPA 6020	
MW-9 (B9L0316-03) Water Sampled: 12/15/99 10:20 Received: 12/16/99 14:15									
Lead	0.0150	0.00100	mg/l	1	9L17012	12/17/99	12/21/99	EPA 6020	
MW-10 (B9L0316-04) Water Sampled: 12/15/99 11:30 Received: 12/16/99 14:15									
Lead	ND	0.00100	mg/l	1	9L17012	12/17/99	12/21/99	EPA 6020	
MW-4 (B9L0316-05) Water Sampled: 12/15/99 13:35 Received: 12/16/99 14:15									
Lead	0.0198	0.00100	mg/l	1	9L17012	12/17/99	12/21/99	EPA 6020	
VP-5 (B9L0316-06) Water Sampled: 12/15/99 15:10 Received: 12/16/99 14:15									
Lead	0.00676	0.00100	mg/l	1	9L17012	12/17/99	12/21/99	EPA 6020	
VP-8 (B9L0316-07) Water Sampled: 12/15/99 15:50 Received: 12/16/99 14:15									
Lead	0.0406	0.00100	mg/l	1	9L17012	12/17/99	12/22/99	EPA 6020	
VP-2 (B9L0316-08) Water Sampled: 12/15/99 16:00 Received: 12/16/99 14:15									
Lead	0.262	0.00100	mg/l	1	9L17012	12/17/99	12/22/99	EPA 6020	

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Page 7 of 17



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 320 Third Avenue NE, Suite 200
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Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VP-7 (B9L0316-01) Water Sampled: 12/14/99 15:15 Received: 12/16/99 14:15									
Manganese	7.76	0.0200	mg/l	20	9L17011	12/17/99	12/22/99	EPA 6020	
Lead	0.00211	0.00100	"	1	"	"	12/19/99	"	
VP-9 (B9L0316-02) Water Sampled: 12/15/99 09:30 Received: 12/16/99 14:15									
Lead	ND	0.00100	mg/l	1	9L17011	12/17/99	12/19/99	EPA 6020	
MW-9 (B9L0316-03) Water Sampled: 12/15/99 10:20 Received: 12/16/99 14:15									
Lead	0.00103	0.00100	mg/l	1	9L17011	12/17/99	12/19/99	EPA 6020	
MW-10 (B9L0316-04) Water Sampled: 12/15/99 11:30 Received: 12/16/99 14:15									
Manganese	5.12	0.0200	mg/l	20	9L17011	12/17/99	12/22/99	EPA 6020	
Lead	ND	0.00100	"	1	"	"	12/19/99	"	
MW-4 (B9L0316-05) Water Sampled: 12/15/99 13:35 Received: 12/16/99 14:15									
Manganese	10.5	0.0500	mg/l	50	9L17011	12/17/99	12/22/99	EPA 6020	
Lead	0.00986	0.00100	"	1	"	"	12/19/99	"	
VP-5 (B9L0316-06) Water Sampled: 12/15/99 15:10 Received: 12/16/99 14:15									
Lead	0.00275	0.00100	mg/l	1	9L17011	12/17/99	12/19/99	EPA 6020	
VP-8 (B9L0316-07) Water Sampled: 12/15/99 15:50 Received: 12/16/99 14:15									
Lead	0.00502	0.00100	mg/l	1	9L17011	12/17/99	12/19/99	EPA 6020	
VP-2 (B9L0316-08) Water Sampled: 12/15/99 16:00 Received: 12/16/99 14:15									
Lead	0.0617	0.00100	mg/l	1	9L17011	12/17/99	12/19/99	EPA 6020	

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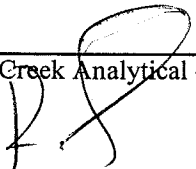
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Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

**Conventional Chemistry Parameters by PSEP Recommended Guidelines
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VP-7 (B9L0316-01) Water Sampled: 12/14/99 15:15 Received: 12/16/99 14:15									
Ferrous Iron	11.7	5.00	mg/l	10	9L17027	12/16/99	12/17/99	SM 3500-Fe D	B-08
MW-10 (B9L0316-04) Water Sampled: 12/15/99 11:30 Received: 12/16/99 14:15									
Ferrous Iron	ND	2.00	mg/l	4	9L17027	12/16/99	12/17/99	SM 3500-Fe D	
MW-4 (B9L0316-05) Water Sampled: 12/15/99 13:35 Received: 12/16/99 14:15									
Ferrous Iron	6.15	5.00	mg/l	10	9L17027	12/16/99	12/17/99	SM 3500-Fe D	

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Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

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Anions by EPA Method 300.0
North Creek Analytical - Bothell.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VP-7 (B9L0316-01) Water Sampled: 12/14/99 15:15 Received: 12/16/99 14:15									
Nitrate-Nitrogen	ND	0.100	mg/L as N	1	9L17037	12/17/99	12/17/99	EPA 300.0	B-08
Sulfate	13.4	0.200	mg/l	"	"	"	"	"	
MW-10 (B9L0316-04) Water Sampled: 12/15/99 11:30 Received: 12/16/99 14:15									
Nitrate-Nitrogen	0.720	0.100	mg/L as N	1	9L17037	12/17/99	12/17/99	EPA 300.0	
Sulfate	70.6	2.00	mg/l	10	"	"	"	"	
MW-4 (B9L0316-05) Water Sampled: 12/15/99 13:35 Received: 12/16/99 14:15									
Nitrate-Nitrogen	ND	0.100	mg/L as N	1	9L17037	12/17/99	12/17/99	EPA 300.0	
Sulfate	ND	0.200	mg/l	"	"	"	"	"	

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Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

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	Limit	RPD	RPD Limit	Notes
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Batch 9L17005: Prepared 12/17/99 Using EPA 5030B (P/T)

Blank (9L17005-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)	40.9		"	48.0		85.2	50-150			
Surrogate: 4-BFB (PID)	46.9		"	48.0		97.7	50-150			

LCS (9L17005-BS1)

Gasoline Range Hydrocarbons	455	50.0	ug/l	500		91.0	70-130			
Surrogate: 4-BFB (FID)	43.5		"	48.0		90.6	50-150			

Duplicate (9L17005-DUP1)

Source: B9L0316-06

Gasoline Range Hydrocarbons	25900	2500	ug/l		23400			10.1	25	
Surrogate: 4-BFB (FID)	44.6		"	48.0		92.9	50-150			

Duplicate (9L17005-DUP2)

Source: B9L0300-03

Gasoline Range Hydrocarbons	ND	50.0	ug/l		14.0			8.18	25	
Surrogate: 4-BFB (FID)	38.6		"	48.0		80.4	50-150			

Matrix Spike (9L17005-MS1)

Source: B9L0300-02

Benzene	10.0	0.500	ug/l	10.0	ND	100	70-130			
Toluene	9.83	0.500	"	10.0	ND	98.3	70-130			
Ethylbenzene	10.2	0.500	"	10.0	ND	102	70-130			
Xylenes (total)	30.5	1.00	"	30.0	ND	102	70-130			
Surrogate: 4-BFB (PID)	47.7		"	48.0		99.4	50-150			

Matrix Spike Dup (9L17005-MSD1)

Source: B9L0300-02

Benzene	10.1	0.500	ug/l	10.0	ND	101	70-130	0.995	15	
Toluene	9.89	0.500	"	10.0	ND	98.9	70-130	0.609	15	
Ethylbenzene	10.3	0.500	"	10.0	ND	103	70-130	0.976	15	
Xylenes (total)	30.6	1.00	"	30.0	ND	102	70-130	0.327	15	
Surrogate: 4-BFB (PID)	48.0		"	48.0		100	50-150			

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Page 11 of 17



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Farallon Consulting LLC 320 Third Avenue NE, Suite 200 Issaquah WA, 98027	Project: Queen Ann Texaco Project Number: 619-010-003 Project Manager: Peter Jewett	Reported: 12/28/99 14:40
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - 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 9L18001: Prepared 12/18/99 Using EPA 3520C/600 Series

Blank (9L18001-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.266		"	0.320		83.1	50-150			

LCS (9L18001-BS1)

Diesel Range Hydrocarbons	1.94	0.250	mg/l	2.00		97.0	60-140			
Surrogate: 2-FBP	0.266		"	0.320		83.1	50-150			

LCS Dup (9L18001-BSD1)

Diesel Range Hydrocarbons	1.82	0.250	mg/l	2.00		91.0	60-140	6.38	40	
Surrogate: 2-FBP	0.252		"	0.320		78.8	50-150			

Batch 9L20014: Prepared 12/20/99 Using EPA 3510C/600 Series

Blank (9L20014-BLK1)

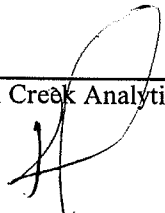
Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.226		"	0.320		70.6	50-150			

LCS (9L20014-BS1)

Diesel Range Hydrocarbons	1.76	0.250	mg/l	2.00		88.0	60-140			
Surrogate: 2-FBP	0.275		"	0.320		85.9	50-150			

LCS Dup (9L20014-BSD1)

Diesel Range Hydrocarbons	1.62	0.250	mg/l	2.00		81.0	60-140	8.28	40	
Surrogate: 2-FBP	0.241		"	0.320		75.3	50-150			

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Farallon Consulting LLC
 320 Third Avenue NE, Suite 200
 Issaquah WA, 98027

Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

Total Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L17012: Prepared 12/17/99 Using EPA 3020A										
Blank (9L17012-BLK1)										
Lead	ND	0.00100	mg/l							
LCS (9L17012-BS1)										
Lead	0.227	0.00100	mg/l	0.200		113	80-120			
Matrix Spike (9L17012-MS1) Source: B9L0276-01										
Lead	0.216	0.00100	mg/l	0.200	0.000822	108	75-125			
Matrix Spike Dup (9L17012-MSD1) Source: B9L0276-01										
Lead	0.216	0.00100	mg/l	0.200	0.000822	108	75-125	0	20	

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Farallon Consulting LLC 320 Third Avenue NE, Suite 200 Issaquah WA, 98027	Project: Queen Ann Texaco Project Number: 619-010-003 Project Manager: Peter Jewett	Reported: 12/28/99 14:40
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Dissolved Metals by EPA 6000/7000 Series Methods - 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 9L17011: Prepared 12/17/99 Using EPA 3005A

Blank (9L17011-BLK1)

Lead	ND	0.00100	mg/l							
Manganese	ND	0.00100	"							

LCS (9L17011-BS1)

Lead	0.203	0.00100	mg/l	0.200		101	80-120			
Manganese	0.169	0.00100	"	0.200		84.5	80-120			

Matrix Spike (9L17011-MS1)

Source: B9L0299-01

Lead	0.216	0.00100	mg/l	0.200	0.00130	107	75-125			
Manganese	7.35	0.0200	"	0.200	7.42	-35.0	75-125			Q-15

Matrix Spike Dup (9L17011-MSD1)

Source: B9L0299-01

Lead	0.221	0.00100	mg/l	0.200	0.00130	110	75-125	2.29	20	
Manganese	7.54	0.0200	"	0.200	7.42	60.0	75-125	2.55	20	Q-15

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Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

**Conventional Chemistry Parameters by PSEP Recommended Guidelines - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L17027: Prepared 12/16/99 Using General Preparation										
Blank (9L17027-BLK1)										
Ferrous Iron	ND	0.500	mg/l							
LCS (9L17027-BS1)										
Ferrous Iron	1.08	0.500	mg/l	1.25		86.4	80-120			
Duplicate (9L17027-DUP1) Source: B9L0316-05										
Ferrous Iron	6.02	5.00	mg/l		6.15			2.14	20	
Matrix Spike (9L17027-MS1) Source: B9L0316-04										
Ferrous Iron	14.9	5.00	mg/l	12.5	1.48	107	80-120			

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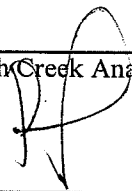


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Farallon Consulting LLC 320 Third Avenue NE, Suite 200 Issaquah WA, 98027	Project: Queen Ann Texaco Project Number: 619-010-003 Project Manager: Peter Jewett	Reported: 12/28/99 14:40
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Anions by EPA Method 300.0 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L17037: Prepared 12/17/99 Using General Preparation										
Blank (9L17037-BLK1)										
Nitrate-Nitrogen	ND	0.100	mg/L as N							
Sulfate	ND	0.200	mg/l							
LCS (9L17037-BS1)										
Nitrate-Nitrogen	1.00	0.100	mg/L as N	1.00		100	90-110			
Sulfate	6.08	0.200	mg/l	6.00		101	90-110			
Duplicate (9L17037-DUP1)					Source: B9L0323-03					
Nitrate-Nitrogen	0.615	0.100	mg/L as N		0.620			0.810	25	
Sulfate	2.60	0.200	mg/l		2.57			1.16	8	
Duplicate (9L17037-DUP2)					Source: B9L0344-07					
Nitrate-Nitrogen	0.847	0.100	mg/L as N		0.844			0.355	25	
Matrix Spike (9L17037-MS1)					Source: B9L0323-03					
Nitrate-Nitrogen	1.51	0.100	mg/L as N	1.00	0.620	89.0	77-117			
Sulfate	8.46	0.200	mg/l	6.00	2.57	98.2	57-134			
Matrix Spike (9L17037-MS2)					Source: B9L0344-07					
Nitrate-Nitrogen	1.78	0.100	mg/L as N	1.00	0.844	93.6	77-117			

North Creek Analytical - Bothell


 Kirk Gendron, Project Manager

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Farallon Consulting LLC 320 Third Avenue NE, Suite 200 Issaquah WA, 98027	Project: Queen Ann Texaco Project Number: 619-010-003 Project Manager: Peter Jewett	Reported: 12/28/99 14:40
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Notes and Definitions

- B-08 These samples were out of hold time at the time of receipt. Therefore, results are inconclusive and may represent false negatives or positives.
- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- Q-15 Analyses are not controlled on matrix spike RPD and/or percent recoveries when the sample concentration is significantly higher than the spike level.
- R-03 The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- 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

Kirk Gendron, Project Manager

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CHAIN OF CUSTODY REPORT

Work Order # B9L0316

REPORT TO: ATTENTION: <u>Peter Jewitt</u>	INVOICE TO: ATTENTION: <u>Texaco</u>
ADDRESS: <u>Favallon Consulting</u> <u>320 3rd Ave NE, Ste 200, Issaquah WA</u>	ADDRESS: <u>Queen Ann Texaco</u>
PHONE: <u>(425) 427-0061</u> FAX: <u>(425) 427-0007</u>	P.O. NUMBER: <u>619-010-003</u> NCA QUOTE #:

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses
 7 5 4 3 2 1 Same Day
Standard

Fuels & Hydrocarbon Analyses
 3-4 2 1 Same Day
Standard

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PROJECT NAME: <u>Queen Ann Texaco</u>	Analysis Request: <u>TPH-GAS/BTEX</u> <u>NWTPH-DX</u> <u>Total Pb</u> <u>Diss. Pb</u> <u>Diss. Mn</u> <u>Diss. Ferrrous Iron</u> <u>Nitrate</u> <u>Sulfate</u> <u>DO</u>
PROJECT NUMBER: <u>619-010-003</u>	
SAMPLED BY: <u>K Saganiski/T Brown</u>	

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	TPH-GAS/BTEX	NWTPH-DX	Total Pb	Diss. Pb	Diss. Mn	Diss. Ferrrous Iron	Nitrate	Sulfate	DO
1. VP-7	12/14/99/1515	B9L0316-01	X	X	X	X	X	X	X	X	X
2. VP-9	12/15/99/0930	02	X	X	X	X					
3. MW-9	12/15/99/1020	03	X	X	X	X					
4. MW-10	12/15/99/1130	04	X	X	X	X	X	X	X	X	
5. MW-4	12/15/99/1335	05	X	X	X	X	X	X	X	X	
6. VP-5	12/15/99/1510	06	X	X	X	X					
7. VP-8	12/15/99/1550	07	X	X	X	X					
8. VP-2	12/15/99/1600	08	X	X	X	X					
9. APT 102	12/15/99/1100	09									

MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
W	6	
	5	
	5	
	6	
	6	
	5	
	5	
	5	

RELINQUISHED BY (Signature): <u>K Saganiski</u>	DATE: <u>12/16/99</u>
PRINT NAME: <u>K Saganiski</u>	FIRM: <u>Favallon</u> TIME: <u>16:15</u>
RELINQUISHED BY (Signature): <u>Timothy S. Brown</u>	DATE: <u>12/16/99</u>
PRINT NAME: <u>Timothy S. Brown</u>	FIRM: <u>Favallon</u> TIME: <u>11:30</u>

RECEIVED BY (Signature): <u>Timothy S. Brown</u>	DATE: <u>12/15/99</u>
PRINT NAME: <u>Timothy S. Brown</u>	FIRM: <u>Favallon</u> TIME: <u>16:15</u>
RECEIVED BY (Signature): <u>J.R. Smith</u>	DATE: <u>12/16/99</u>
PRINT NAME: <u>J. Smith</u>	FIRM: <u>Favallon</u> TIME: <u>11:30am</u>

ADDITIONAL REMARKS: J.R. Smith 12/16/99
J.R. Smith
REL. Bill Kern NCA 12-16-99 13:00
REL. Bill Kern NCA 12-16-99 14:15

PAGE - OF
10-0



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Farallon Consulting LLC
320 Third Avenue NE, Suite 200
Issaquah WA, 98027

Project: Queen Ann Texaco
Project Number: 619-010
Project Manager: Kim Saganski

Reported:
07/07/00 09:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VP-8	B0F0280-01	Water	06/13/00 12:13	06/15/00 08:30
VP-4	B0F0280-02	Water	06/13/00 13:08	06/15/00 08:30
VP-5	B0F0280-03	Water	06/13/00 16:18	06/15/00 08:30
VP-7	B0F0280-04	Water	06/14/00 08:00	06/15/00 08:30
VP-2	B0F0280-05	Water	06/14/00 08:05	06/15/00 08:30
VP-1	B0F0280-06	Water	06/14/00 08:46	06/15/00 08:30
MW-4	B0F0280-07	Water	06/14/00 08:55	06/15/00 08:30
VP-9	B0F0280-08	Water	06/14/00 10:00	06/15/00 08:30
MW-9	B0F0280-09	Water	06/14/00 10:05	06/15/00 08:30
MW-10	B0F0280-10	Water	06/14/00 10:55	06/15/00 08:30

RECEIVED
JUL 17 2000
BY:

North Creek Analytical - Bothell

Kirk Gendron, Project Manager

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Project: Queen Ann Texaco
 Project Number: 619-010
 Project Manager: Kim Saganski

Reported:
 07/07/00 09:28

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
VP-8 (B0F0280-01) Water Sampled: 06/13/00 12:13 Received: 06/15/00 08:30									
Gasoline Range Hydrocarbons	233	50.0	ug/l	1	0F16023	06/16/00	06/20/00	NWTPH-Gx/8021B	
Benzene	1.10	0.500	"	"	"	"	"	"	"
Toluene	1.81	0.500	"	"	"	"	"	"	"
Ethylbenzene	1.95	0.500	"	"	"	"	"	"	"
Xylenes (total)	7.99	1.00	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	101 %	50-150			"	"	"	"	"
Surrogate: 4-BFB (PID)	95.0 %	50-150			"	"	"	"	"
VP-4 (B0F0280-02) Water Sampled: 06/13/00 13:08 Received: 06/15/00 08:30									
Gasoline Range Hydrocarbons	26400	10000	ug/l	200	0F16023	06/16/00	06/20/00	NWTPH-Gx/8021B	
Benzene	1020	100	"	"	"	"	"	"	"
Toluene	3270	100	"	"	"	"	"	"	"
Ethylbenzene	809	100	"	"	"	"	"	"	"
Xylenes (total)	6160	200	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	98.5 %	50-150			"	"	"	"	"
Surrogate: 4-BFB (PID)	96.3 %	50-150			"	"	"	"	"
VP-5 (B0F0280-03) Water Sampled: 06/13/00 16:18 Received: 06/15/00 08:30									
Gasoline Range Hydrocarbons	25600	10000	ug/l	200	0F16023	06/16/00	06/19/00	NWTPH-Gx/8021B	
Benzene	793	100	"	"	"	"	"	"	"
Toluene	155	100	"	"	"	"	"	"	"
Ethylbenzene	1380	100	"	"	"	"	"	"	"
Xylenes (total)	5690	200	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	103 %	50-150			"	"	"	"	"
Surrogate: 4-BFB (PID)	97.1 %	50-150			"	"	"	"	"

North Creek Analytical - Bothell

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Farallon Consulting LLC 320 Third Avenue NE, Suite 200 Issaquah WA, 98027	Project: Queen Ann Texaco Project Number: 619-010 Project Manager: Kim Saganski	Reported: 07/07/00 09:28
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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
VP-7 (B0F0280-04) Water Sampled: 06/14/00 08:00 Received: 06/15/00 08:30									
Gasoline Range Hydrocarbons	54400	25000	ug/l	500	0F16023	06/16/00	06/19/00	NWTPH-Gx/8021B	
Benzene	10000	250	"	"	"	"	"	"	
Toluene	8230	250	"	"	"	"	"	"	
Ethylbenzene	1380	250	"	"	"	"	"	"	
Xylenes (total)	7470	500	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	99.2 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	99.0 %	50-150			"	"	"	"	
VP-2 (B0F0280-05) Water Sampled: 06/14/00 08:05 Received: 06/15/00 08:30									
Gasoline Range Hydrocarbons	2030	50.0	ug/l	1	0F16023	06/16/00	06/19/00	NWTPH-Gx/8021B	
Benzene	45.9	0.500	"	"	"	"	"	"	
Toluene	16.2	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	3.00	"	"	"	"	"	"	R-03
Xylenes (total)	196	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	78.5 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	81.9 %	50-150			"	"	"	"	
VP-1 (B0F0280-06) Water Sampled: 06/14/00 08:46 Received: 06/15/00 08:30									
Gasoline Range Hydrocarbons	5000	250	ug/l	5	0F16023	06/16/00	06/20/00	NWTPH-Gx/8021B	
Benzene	21.6	2.50	"	"	"	"	"	"	
Toluene	14.4	2.50	"	"	"	"	"	"	
Ethylbenzene	32.8	2.50	"	"	"	"	"	"	
Xylenes (total)	435	5.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	100 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	101 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Farallon Consulting LLC
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Project: Queen Ann Texaco
 Project Number: 619-010
 Project Manager: Kim Saganski

Reported:
 07/07/00 09:28

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (B0F0280-07) Water Sampled: 06/14/00 08:55 Received: 06/15/00 08:30									
Gasoline Range Hydrocarbons	74400	12500	ug/l	250	0F16023	06/16/00	06/19/00	NWTPH-Gx/8021B	
Benzene	14400	125	"	"	"	"	"	"	
Toluene	9440	125	"	"	"	"	"	"	
Ethylbenzene	1840	125	"	"	"	"	"	"	
Xylenes (total)	10800	250	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	100 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	99.2 %	50-150			"	"	"	"	
VP-9 (B0F0280-08) Water Sampled: 06/14/00 10:00 Received: 06/15/00 08:30									
Gasoline Range Hydrocarbons	474	50.0	ug/l	1	0F16023	06/16/00	06/19/00	NWTPH-Gx/8021B	
Benzene	4.97	0.500	"	"	"	"	"	"	
Toluene	ND	1.30	"	"	"	"	"	"	
Ethylbenzene	55.6	0.500	"	"	"	"	"	"	
Xylenes (total)	4.48	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	164 %	50-150			"	"	"	"	S-02
Surrogate: 4-BFB (PID)	122 %	50-150			"	"	"	"	
MW-9 (B0F0280-09) Water Sampled: 06/14/00 10:05 Received: 06/15/00 08:30									
Gasoline Range Hydrocarbons	4740	1000	ug/l	20	0F16023	06/16/00	06/19/00	NWTPH-Gx/8021B	
Benzene	786	10.0	"	"	"	"	"	"	
Toluene	26.0	10.0	"	"	"	"	"	"	
Ethylbenzene	274	10.0	"	"	"	"	"	"	
Xylenes (total)	156	20.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	103 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	103 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Farallon Consulting LLC 320 Third Avenue NE, Suite 200 Issaquah WA, 98027	Project: Queen Ann Texaco Project Number: 619-010 Project Manager: Kim Saganski	Reported: 07/07/00 09:28
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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
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MW-10 (B0F0280-10) Water Sampled: 06/14/00 10:55 Received: 06/15/00 08:30

Gasoline Range Hydrocarbons	99.2	50.0	ug/l	1	0F16023	06/16/00	06/21/00	NWTPH-Gx/8021B	
Benzene	1.56	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.30	"	"	"	"	"	"	R-03
Surrogate: 4-BFB (FID)	78.3 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	97.7 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Farallon Consulting LLC
 320 Third Avenue NE, Suite 200
 Issaquah WA, 98027

Project: Queen Ann Texaco
 Project Number: 619-010
 Project Manager: Kim Saganski

Reported:
 07/07/00 09:28

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VP-8 (B0F0280-01RE1) Water Sampled: 06/13/00 12:13 Received: 06/15/00 08:30									
Diesel Range Hydrocarbons	2.28	0.551	mg/l	1	0F20019	06/20/00	06/21/00	NWTPH-Dx	Q29
Lube Oil Range Hydrocarbons	ND	1.10	"	"	"	"	"	"	Q29
Surrogate: 2-FBP	76.7 %	50-150			"	"	"	"	Q29
VP-4 (B0F0280-02RE1) Water Sampled: 06/13/00 13:08 Received: 06/15/00 08:30									
Diesel Range Hydrocarbons	1.85	0.552	mg/l	1	0F20019	06/20/00	06/21/00	NWTPH-Dx	Q29
Lube Oil Range Hydrocarbons	ND	1.10	"	"	"	"	"	"	Q29
Surrogate: 2-FBP	69.3 %	50-150			"	"	"	"	Q29
VP-5 (B0F0280-03RE1) Water Sampled: 06/13/00 16:18 Received: 06/15/00 08:30									
Diesel Range Hydrocarbons	1.34	0.562	mg/l	1	0F20019	06/20/00	06/21/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	1.12	"	"	"	"	"	"	
Surrogate: 2-FBP	81.6 %	50-150			"	"	"	"	
VP-7 (B0F0280-04RE1) Water Sampled: 06/14/00 08:00 Received: 06/15/00 08:30									
Diesel Range Hydrocarbons	0.931	0.729	mg/l	1	0F20019	06/20/00	06/21/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	1.46	"	"	"	"	"	"	
Surrogate: 2-FBP	71.4 %	50-150			"	"	"	"	
VP-2 (B0F0280-05RE1) Water Sampled: 06/14/00 08:05 Received: 06/15/00 08:30									
Diesel Range Hydrocarbons	2.81	0.552	mg/l	1	0F20019	06/20/00	06/21/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	1.10	"	"	"	"	"	"	
Surrogate: 2-FBP	73.2 %	50-150			"	"	"	"	
VP-1 (B0F0280-06RE1) Water Sampled: 06/14/00 08:46 Received: 06/15/00 08:30									
Diesel Range Hydrocarbons	75.6	6.26	mg/l	11	0F20019	06/20/00	06/22/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	12.5	"	"	"	"	"	"	
Surrogate: Octacosane	78.9 %	50-150			"	"	"	"	S-05

North Creek Analytical - Bothell

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Kirk Gendron, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network

Page 6 of 17



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Farallon Consulting LLC
 320 Third Avenue NE, Suite 200
 Issaquah WA, 98027

Project: Queen Ann Texaco
 Project Number: 619-010
 Project Manager: Kim Saganski

Reported:
 07/07/00 09:28

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (B0F0280-07RE1) Water Sampled: 06/14/00 08:55 Received: 06/15/00 08:30									
Diesel Range Hydrocarbons	3.39	0.622	mg/l	1	0F20019	06/20/00	06/21/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	1.24	"	"	"	"	"	"	
Surrogate: 2-FBP	85.1 %	50-150			"	"	"	"	
VP-9 (B0F0280-08RE1) Water Sampled: 06/14/00 10:00 Received: 06/15/00 08:30									
Diesel Range Hydrocarbons	1.42	0.567	mg/l	1	0F20019	06/20/00	06/21/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	1.13	"	"	"	"	"	"	
Surrogate: 2-FBP	84.3 %	50-150			"	"	"	"	
MW-9 (B0F0280-09) Water Sampled: 06/14/00 10:05 Received: 06/15/00 08:30									
Diesel Range Hydrocarbons	6.07	0.250	mg/l	1	0F18004	06/18/00	06/19/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	84.5 %	50-150			"	"	"	"	
MW-10 (B0F0280-10) Water Sampled: 06/14/00 10:55 Received: 06/15/00 08:30									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	0F18004	06/18/00	06/19/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	61.3 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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 320 Third Avenue NE, Suite 200
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Project: Queen Ann Texaco
 Project Number: 619-010
 Project Manager: Kim Saganski

Reported:
 07/07/00 09:28

Total Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VP-8 (B0F0280-01) Water Sampled: 06/13/00 12:13 Received: 06/15/00 08:30									
Lead	0.0177	0.00100	mg/l	1	0F26016	06/26/00	07/02/00	EPA 6020	
VP-4 (B0F0280-02) Water Sampled: 06/13/00 13:08 Received: 06/15/00 08:30									
Lead	0.00912	0.00100	mg/l	1	0F26016	06/26/00	07/02/00	EPA 6020	
VP-5 (B0F0280-03) Water Sampled: 06/13/00 16:18 Received: 06/15/00 08:30									
Lead	0.00375	0.00100	mg/l	1	0F26016	06/26/00	07/02/00	EPA 6020	
VP-2 (B0F0280-05) Water Sampled: 06/14/00 08:05 Received: 06/15/00 08:30									
Lead	0.0378	0.00100	mg/l	1	0F26016	06/26/00	07/06/00	EPA 6020	
VP-1 (B0F0280-06) Water Sampled: 06/14/00 08:46 Received: 06/15/00 08:30									
Lead	0.334	0.00100	mg/l	1	0F26023	06/26/00	07/02/00	EPA 6020	
MW-4 (B0F0280-07) Water Sampled: 06/14/00 08:55 Received: 06/15/00 08:30									
Lead	0.0214	0.00100	mg/l	1	0F26023	06/26/00	07/02/00	EPA 6020	
VP-9 (B0F0280-08) Water Sampled: 06/14/00 10:00 Received: 06/15/00 08:30									
Lead	0.0152	0.00100	mg/l	1	0F26023	06/26/00	07/02/00	EPA 6020	
MW-9 (B0F0280-09) Water Sampled: 06/14/00 10:05 Received: 06/15/00 08:30									
Lead	0.00786	0.00100	mg/l	1	0F26023	06/26/00	07/02/00	EPA 6020	
MW-10 (B0F0280-10) Water Sampled: 06/14/00 10:55 Received: 06/15/00 08:30									
Lead	ND	0.00100	mg/l	1	0F26023	06/26/00	07/02/00	EPA 6020	

North Creek Analytical - Bothell

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Page 8 of 17



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Farallon Consulting LLC
 320 Third Avenue NE, Suite 200
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Project: Queen Ann Texaco
 Project Number: 619-010
 Project Manager: Kim Saganski

Reported:
 07/07/00 09:28

Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
VP-8 (B0F0280-01) Water	Sampled: 06/13/00 12:13		Received: 06/15/00 08:30							Q-30
Lead	0.00795	0.00100	mg/l	1	0F15043	06/15/00	07/03/00	EPA 6020		
VP-4 (B0F0280-02) Water	Sampled: 06/13/00 13:08		Received: 06/15/00 08:30							Q-30
Lead	0.00466	0.00100	mg/l	1	0F15043	06/15/00	07/03/00	EPA 6020		
VP-5 (B0F0280-03) Water	Sampled: 06/13/00 16:18		Received: 06/15/00 08:30							Q-30
Lead	0.00266	0.00100	mg/l	1	0F15043	06/15/00	07/03/00	EPA 6020		
VP-7 (B0F0280-04) Water	Sampled: 06/14/00 08:00		Received: 06/15/00 08:30							Q-30
Lead	0.00213	0.00100	mg/l	1	0F15043	06/15/00	07/03/00	EPA 6020		
VP-2 (B0F0280-05) Water	Sampled: 06/14/00 08:05		Received: 06/15/00 08:30							Q-30
Lead	0.00987	0.00100	mg/l	1	0F15043	06/15/00	07/03/00	EPA 6020		
VP-1 (B0F0280-06) Water	Sampled: 06/14/00 08:46		Received: 06/15/00 08:30							Q-30
Lead	0.0339	0.00100	mg/l	1	0F15043	06/15/00	07/03/00	EPA 6020		
MW-4 (B0F0280-07) Water	Sampled: 06/14/00 08:55		Received: 06/15/00 08:30							Q-30
Lead	0.00972	0.00100	mg/l	1	0F15043	06/15/00	07/03/00	EPA 6020		
VP-9 (B0F0280-08) Water	Sampled: 06/14/00 10:00		Received: 06/15/00 08:30							Q-30
Lead	ND	0.00100	mg/l	1	0F15043	06/15/00	07/03/00	EPA 6020		
MW-9 (B0F0280-09) Water	Sampled: 06/14/00 10:05		Received: 06/15/00 08:30							Q-30
Lead	0.00159	0.00100	mg/l	1	0F15043	06/15/00	07/03/00	EPA 6020		

North Creek Analytical - Bothell

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Project: Queen Ann Texaco
 Project Number: 619-010
 Project Manager: Kim Saganski

Reported:
 07/07/00 09:28

Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (B0F0280-10) Water									
Sampled: 06/14/00 10:55 Received: 06/15/00 08:30									
Lead	ND	0.00100	mg/l	1	0F15043	06/15/00	07/03/00	EPA 6020	Q-30

North Creek Analytical - Bothell

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Project: Queen Ann Texaco
 Project Number: 619-010
 Project Manager: Kim Saganski

Reported:
 07/07/00 09:28

**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 0F16023: Prepared 06/16/00 Using EPA 5030B (P/T)

Blank (0F16023-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)	48.7		"	48.0		101	50-150			
Surrogate: 4-BFB (PID)	46.2		"	48.0		96.3	50-150			

Blank (0F16023-BLK2)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	46.7		"	48.0		97.3	50-150			
Surrogate: 4-BFB (PID)	47.1		"	48.0		98.1	50-150			

LCS (0F16023-BS1)

Gasoline Range Hydrocarbons	471	50.0	ug/l	500		94.2	70-130			
Surrogate: 4-BFB (FID)	51.4		"	48.0		107	50-150			

LCS (0F16023-BS2)

Gasoline Range Hydrocarbons	469	50.0	ug/l	500		93.8	70-130			
Surrogate: 4-BFB (FID)	51.0		"	48.0		106	50-150			

Duplicate (0F16023-DUP1)

Source: B0F0280-09

Gasoline Range Hydrocarbons	4210	250	ug/l		4740			11.8	25	
Surrogate: 4-BFB (FID)	45.2		"	48.0		94.2	50-150			

North Creek Analytical - Bothell

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Page 11 of 17



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Project: Queen Ann Texaco
 Project Number: 619-010
 Project Manager: Kim Saganski

Reported:
 07/07/00 09:28

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 0F16023: Prepared 06/16/00 Using EPA 5030B (P/T)

Duplicate (0F16023-DUP2)

Source: B0F0323-06

Gasoline Range Hydrocarbons	264	50.0	ug/l		280			5.88	25	
Surrogate: 4-BFB (FID)	48.9		"	48.0		102	50-150			

Matrix Spike (0F16023-MS1)

Source: B0F0323-05

Benzene	9.94	0.500	ug/l	10.0	ND	98.0	70-130			
Toluene	10.0	0.500	"	10.0	ND	98.3	70-130			
Ethylbenzene	10.2	0.500	"	10.0	ND	98.1	70-130			
Xylenes (total)	26.7	1.00	"	30.0	ND	89.0	70-130			
Surrogate: 4-BFB (PID)	47.4		"	48.0		98.8	50-150			

Matrix Spike Dup (0F16023-MSD1)

Source: B0F0323-05

Benzene	9.97	0.500	ug/l	10.0	ND	98.3	70-130	0.301	15	
Toluene	10.1	0.500	"	10.0	ND	99.3	70-130	0.995	15	
Ethylbenzene	10.1	0.500	"	10.0	ND	97.1	70-130	0.985	15	
Xylenes (total)	27.1	1.00	"	30.0	ND	90.3	70-130	1.49	15	
Surrogate: 4-BFB (PID)	47.3		"	48.0		98.5	50-150			

North Creek Analytical - Bothell

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Page 12 of 17



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Farallon Consulting LLC 320 Third Avenue NE, Suite 200 Issaquah WA, 98027	Project: Queen Ann Texaco Project Number: 619-010 Project Manager: Kim Saganski	Reported: 07/07/00 09:28
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - 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 0F18004: Prepared 06/18/00 Using EPA 3510C/600 Series

Blank (0F18004-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.264		"	0.320		82.5	50-150			

LCS (0F18004-BS1)

Diesel Range Hydrocarbons	1.81	0.250	mg/l	2.00		90.5	60-140			
Surrogate: 2-FBP	0.293		"	0.320		91.6	50-150			

Duplicate (0F18004-DUP1)

Source: B0F0295-03

Diesel Range Hydrocarbons	ND	0.519	mg/l		ND			40.3	50	
Lube Oil Range Hydrocarbons	ND	1.04	"		ND				50	
Surrogate: 2-FBP	0.527		"	0.664		79.4	50-150			

Matrix Spike (0F18004-MS1)

Source: B0F0299-01

Diesel Range Hydrocarbons	1.44	0.250	mg/l	1.96	ND	64.0	50-150			
Surrogate: 2-FBP	0.206		"	0.314		65.6	50-150			

Matrix Spike Dup (0F18004-MSD1)

Source: B0F0299-01

Diesel Range Hydrocarbons	1.47	0.250	mg/l	1.99	ND	64.6	50-150	2.06	50	
Surrogate: 2-FBP	0.270		"	0.319		84.6	50-150			

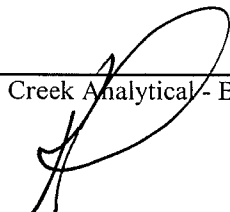
Batch 0F20019: Prepared 06/20/00 Using EPA 3510C/600 Series

Blank (0F20019-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.226		"	0.320		70.6	50-150			

North Creek Analytical - Bothell

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Project: Queen Ann Texaco
 Project Number: 619-010
 Project Manager: Kim Saganski

Reported:
 07/07/00 09:28

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - 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 0F20019: Prepared 06/20/00 Using EPA 3510C/600 Series

LCS (0F20019-BS1)

Diesel Range Hydrocarbons	1.70	0.250	mg/l	2.00		85.0	60-140			
Surrogate: 2-FBP	0.258		"	0.320		80.6	50-150			

LCS Dup (0F20019-BSD1)

Diesel Range Hydrocarbons	1.80	0.250	mg/l	2.00		90.0	60-140	5.71	40	
Surrogate: 2-FBP	0.238		"	0.320		74.4	50-150			

North Creek Analytical - Bothell

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Page 14 of 17



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Reported:
 07/07/00 09:28

Total Metals by EPA 6000/7000 Series Methods - 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 0F26016: Prepared 06/26/00 Using EPA 3020A

Blank (0F26016-BLK1)

Lead	ND	0.00100	mg/l							
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LCS (0F26016-BS1)

Lead	0.198	0.00100	mg/l	0.200		99.0	80-120			
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Matrix Spike (0F26016-MS1)

Source: B0F0279-02

Lead	0.233	0.00100	mg/l	0.200	ND	116	75-125			
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Matrix Spike Dup (0F26016-MSD1)

Source: B0F0279-02

Lead	0.213	0.00100	mg/l	0.200	ND	106	75-125	8.97	20	
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Batch 0F26023: Prepared 06/26/00 Using EPA 3020A

Blank (0F26023-BLK1)

Lead	ND	0.00100	mg/l							
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LCS (0F26023-BS1)

Lead	0.185	0.00100	mg/l	0.200		92.5	80-120			
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Matrix Spike (0F26023-MS1)

Source: B0F0277-01

Lead	0.191	0.00100	mg/l	0.200	ND	95.2	75-125			
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Matrix Spike Dup (0F26023-MSD1)

Source: B0F0277-01

Lead	0.198	0.00100	mg/l	0.200	ND	98.7	75-125	3.60	20	
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North Creek Analytical - Bothell

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Kirk Gendron, Project Manager

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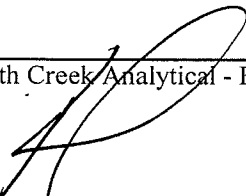
Farallon Consulting LLC 320 Third Avenue NE, Suite 200 Issaquah WA, 98027	Project: Queen Ann Texaco Project Number: 619-010 Project Manager: Kim Saganski	Reported: 07/07/00 09:28
---	---	------------------------------------

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0F15043: Prepared 06/15/00 Using EPA 3005A										
Blank (0F15043-BLK1)										
Lead	ND	0.00100	mg/l							
LCS (0F15043-BS1)										
Lead	0.201	0.00100	mg/l	0.200		101	80-120			
Matrix Spike (0F15043-MS1) Source: B0F0280-01										
Lead	0.220	0.00100	mg/l	0.200	0.00795	106	75-125			
Matrix Spike Dup (0F15043-MSD1) Source: B0F0280-01										
Lead	0.218	0.00100	mg/l	0.200	0.00795	105	75-125	0.913	20	

North Creek Analytical - Bothell

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Farallon Consulting LLC
 320 Third Avenue NE, Suite 200
 Issaquah WA, 98027

Project: Queen Ann Texaco
 Project Number: 619-010
 Project Manager: Kim Saganski

Reported:
 07/07/00 09:28

Notes and Definitions

- Q-30 This sample was laboratory filtered since it was not field filtered as is required by the methodology.
- Q29 This sample was prepared outside of the method established holding time.
- R-03 The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- S-05 Due to interference from coeluting organic compounds with the primary surrogate, results of the secondary surrogate have been used to control the analysis.
- 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

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.

Kirk Gendron, Project Manager

**North Creek Analytical, Inc.
 Environmental Laboratory Network**

CHAIN OF CUSTODY REPORT

Work Order #: **BOFO280**

CLIENT: **Faraklon**
REPORT TO: **Kim Seganski**
ADDRESS: **320 3rd Ave. NE, Suite 200**
Issaquah, WA 98027
PHONE: **425/427-0061** FAX: **425/427-0067**

INVOICE TO: **JEFF GOULD -**
Equiva Services
P.O. NUMBER:

TURNAROUND REQUEST in Business Days*

Organic & Inorganic Analyses
 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses
 4 3 2 1 <1

OTHER: _____
Please Specify

*Turnaround Requests less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	REQUESTED ANALYSES																		
		N WTPA-GX	STEX	N WTPA-DX	Total dissolved Lead															
1. VP-8	6/13/00 / 12:13	X	X	X																
2. VP-4	6/13/00 / 13:08	X	X	X																
3. VP-5	6/13/00 / 16:18	X	X	X																
4. VP-7	6/14/00 / 08:00	X	X	X																
5. VP-2	6/14/00 / 08:05	X	X	X																
6. VP-1	6/14/00 / 08:46	X	X	X																
7. MW-4	6/14/00 / 08:55	X	X	X																
8. VP-9	6/14/00 / 10:00	X	X	X																
9. MW-9	6/14/00 / 10:05	X	X	X																
10. MW-10	6/14/00 / 10:55	X	X	X																
11.																				
12.																				
13.																				
14.																				
15.																				

MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA W/ ID
W	5	Please Dissolved Lead Filter	
	5	Please Filter Dissolved Lead ASAP	
	5		
	5		
	5		
	5		
	5		
	5		
	5		
	5		
	5		

RELINQUISHED BY: **Matthew Essig** DATE: **6/14/00** TIME: **17:59** FIRM: **FARAKLON**
 RECEIVED BY: **Ellen Tennis** DATE: **6/14/00** TIME: **18:20** FIRM: **NCA**

RELINQUISHED BY: **Bill K** DATE: **6/14/00** TIME: **17:59** FIRM: **NCA**
 RECEIVED BY: **Ellen Tennis** DATE: **6/15/00** TIME: **08:30** FIRM: **NCA**

APPENDIX B



January 11, 2000

Mr. Brian Sato
Department of Ecology
Northwest Regional Office
3190 160th Ave SE
Bellevue, Washington 98008-5452

**RE: DECEMBER 1999 GROUNDWATER SAMPLING
ANALYTICAL RESULTS
QUEEN ANN TEXACO
SEATTLE, WASHINGTON
FARALLON PN: 619-010**

Dear Mr. Sato:

Farallon Consulting LLC (Farallon) has prepared this letter on behalf of Texaco to provide you with the analytical results from recent groundwater sampling at the above-referenced site completed on December 14th and 15th, 1999. The groundwater samples were collected to determine the distribution and concentrations of petroleum hydrocarbons in groundwater at the site.

Monitoring well MW-6 and vapor well VP-1 contained free product approximately 1-inch and 3.25-inches thick, respectively at the time of the field investigation. Samples of the free product were submitted to Friedman & Bruya, Inc. for hydrocarbon identification. Groundwater samples were not collected from these wells. A thin layer of free product was also observed in vapor well VP-4, but a groundwater sample was not collected. Vapor well VP-6 was inaccessible at the time of the sampling event, therefore, Farallon was unable to collect a groundwater sample.

Groundwater samples collected from monitoring wells MW-4, MW-9, and MW-10; vapor wells VP-2, VP-5, VP-7, VP-8, and VP-9 were submitted for the following analyses: gasoline-range hydrocarbons by NWTPH-Gx, benzene, toluene, ethylbenzene, and xylenes by EPA 8021B, diesel- and oil-range hydrocarbons by NWTPH-Dx, and total and dissolved lead by EPA.6000/7000 Series Methods. Groundwater samples from wells VP-7, MW-10, and MW-4 were submitted for analysis of dissolved ferrous Iron by PSEP, nitrate-nitrogen and sulfate by EPA Method 300.0, and dissolved manganese by EPA 6000/7000 Series Methods.



A summary of the December 1999 analytical results is shown in Table 1 along with previous analytical results from October 1995 and quarterly sampling results from 1997 for comparison. The well locations and well labeling used for this, and all future sampling, is shown on the attached figure.

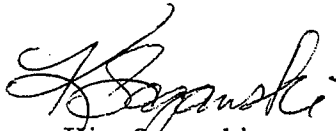
Farallon is currently evaluating the analytical results. In accordance with Texaco's request, product recovery will be initiated in MW-6, VP-1 and VP-4 immediately as an interim action. The product recovery will consist of absorbent pads placed in each of these wells with periodic removal and replacement.


A schedule and scope of work for the additional work which may be necessary at the site is in preparation at this time. Farallon will provide a scope of work and schedule once evaluation is completed.

Farallon trusts that this provides sufficient information. Feel free to contact either of the undersigned at (425) 427-0061 if you have any questions.

Sincerely,

Farallon Consulting LLC


Kim Saganski
Project Geologist


Peter Jewett
Principal

Attachments

- Table 1
- Figure 1
- Analytical Laboratory Reports

cc: Jeff Goold, Equiva Services LLC
Mike Nesteroff, Lane Powell Spears Lubersky
Mark Myers, William Kastner & Gibbs
Tom Vaughn; Equipose Corp

KS:gr

TABLE 1
 QUEEN ANN TEXACO
 GROUNDWATER ANALYTICAL DATA
 Oct. 1995 through Dec. 1999
 FARALLON PN: 619-010

Sample Number	Date Sampled	Gasoline Range Hydrocarbons (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (total) (ug/l)	m&p-xylene (ug/l)	o-xylene (ug/l)	Diesel Range Hydrocarbons (mg/l)
VP-2	Dec-99	5,980	935	345	43.8	305			29.9
VP-5	Dec-99	23,400	841	191	1,480	7,720			2.49
VP-7	Dec-99	73,400	16,800	9,670	1,890	10,500			3.31
	Nov-97	34,000	15,900	3,600	1,500	RA	4,800	1,800	NT
	Jul-97	37,000	11,000	3,700	1,500	RA	5,200	1,900	NT
	Apr-97	53,000	11,100	4,800	1,400	RA	5,400	2,200	NT
	Jan-97	51,000	124,000	5,200	990	RA	3,700	1,500	NT
	Oct-95	33,000	11,700	2,330	1,070	4,130			NT
VP-8	Dec-99	7,640	540	927	201	1,430			2.78
	Nov-97	830J	5.6	7	11	RA	23	9.6	NT
	Jul-97	9,100J	96	246	52	RA	706	274	NT
	Apr-97	18,000	605	786	119	RA	1,260	514	NT
	Jan-97	8,000	816	824	26	RA	412	182	NT
	Oct-95	3,100	2.5	1.2	3	16			NT
VP-9	Dec-99	118	ND	ND	ND	ND			ND
MW-4	Dec-99	73,300	13,700	13,500	1,830	11,000			3.34
	Nov-97	89,000	17,500	16,000	1,900	RA	8,800	3,400	NT
	Jul-97	120,000	19,600	19,700	2,100	RA	9,300	3,800	NT
	Apr-97	100,000	14,300	14,500	1,700	RA	7,800	3,200	NT
	Jan-97	88,000	12,900	12,400	1,400	RA	7,500	3,100	NT
	Oct-95	95,000	19,600E	12,000	2,070	10,800			NT
MW-9	Dec-99	4,460	831	22.4	274	138			8.51
	Nov-97	5,000	2,010	80	334	RA	356	44	NT
	Jul-97	2,200J	2,680	127	460	RA	561	59J	NT
	Apr-97	9,100	2,980	173	413	RA	554	120	NT
	Jan-97	4,400	2,600	53	310	RA	270	15	NT
	Oct-95	3,400	3,520	70J	200U	312J			NT
MW-10	Dec-99	618	7.02	ND	ND	ND			0.353
	Nov-97	1,000	4.2	2	4.8	RA	1.6	0.6J	NT
	Jul-97	1,100	10	2.1	2.4	RA	3.8	0.54J	NT
	Apr-97	420	5.1	1	1U	RA	2.0J	1.4U	NT
	Jan-97	180	1.5	1U	1U	RA	2U	1U	NT
	Oct-95	780	1.8	2.9	0.82J	5.6			NT

Dec-99 Sampled and reported by Farallon

Notes: ND - Not detected at or above the method reporting limit

NT - Not tested

Oct-95 to Nov-97- Data from Department of Ecology report *Monterey Apartments Groundwater Monitoring*

E - The analyte was not detected at or above the reported value

J - The analyte was positively identified. The associated numerical result is an estimate

P - The analyte was detected above the instrument detection limit but below the established minimum quantitation limit.

U- The analyte was not detected at or above the reported value.

RA- Reported as m&p xylene and o-xylene, total xylene not reported by Ecology.

TABLE 1
 QUEEN ANN TEXACO
 GROUNDWATER ANALYTICAL DATA
 Oct. 1995 through Dec. 1999
 FARALLON PN: 619-010

Sample Number	Oil Range Hydrocarbons (mg/l)	Lead (total) (mg/l)	Lead (dissolved) (mg/l)	Manganese (mg/l)	Ferrous Iron (mg/l)	Nitrate-Nitrogen (mg/l as N)	Sulfate (mg/l)
VP-2	ND	0.262	0.0617	NT	NT	NT	NT
VP-5	ND	0.00676	0.00275	NT	NT	NT	NT
VP-7	ND	0.00591	0.00211	7.76	11.7	ND	13.4
	NT	0.005	NT	NT	NT	NT	NT
	NT	0.0043J	NT	NT	NT	NT	NT
	NT	0.0034	NT	NT	NT	NT	NT
	NT	0.0093	NT	NT	NT	NT	NT
	NT	0.0056P	NT	NT	NT	NT	NT
VP-8	ND	0.0406	0.00502	NT	NT	NT	NT
	NT	0.0127	NT	NT	NT	NT	NT
	NT	0.023	NT	NT	NT	NT	NT
	NT	0.0246	NT	NT	NT	NT	NT
	NT	0.037	NT	NT	NT	NT	NT
	NT	0.0034P	NT	NT	NT	NT	NT
VP-9	ND	0.00572	ND	NT	NT	NT	NT
MW-4	ND	0.0198	0.00986	10.5	6.15	ND	ND
	NT	0.0162	NT	NT	NT	NT	NT
	NT	0.0195	NT	NT	NT	NT	NT
	NT	0.0207	NT	NT	NT	NT	NT
	NT	0.0365	NT	NT	NT	NT	NT
	NT	0.0306	NT	NT	NT	NT	NT
MW-9	ND	0.0150	0.00103	NT	NT	NT	NT
	NT	0.0033	NT	NT	NT	NT	NT
	NT	0.0086J	NT	NT	NT	NT	NT
	NT	0.0068	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT
	NT	0.0046P	NT	NT	NT	NT	NT
MW-10	ND	ND	ND	5.12	ND	0.720	70.6
	NT	0.0049	NT	NT	NT	NT	NT
	NT	0.0012J	NT	NT	NT	NT	NT
	NT	0.001U	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT
	NT	0.001U	NT	NT	NT	NT	NT

Dec-99 Sampled and reported by Farallon

Notes: ND - Not detected at or above the method reporting limit

NT - Not tested

Oct-95 to Nov-97- Data from Department of Ecology report *Monterey Apartments Groundwater Monitoring*

E - The analyte was not detected at or above the reported value

J - The analyte was positively identified. The associated numerical result is an estimate

P - The analyte was detected above the instrument detection limit but below the established minimum quantitation limit.

U - The analyte was not detected at or above the reported value.

RA - Reported as m&p xylene and o-xylene, total xylene not reported by Ecology.

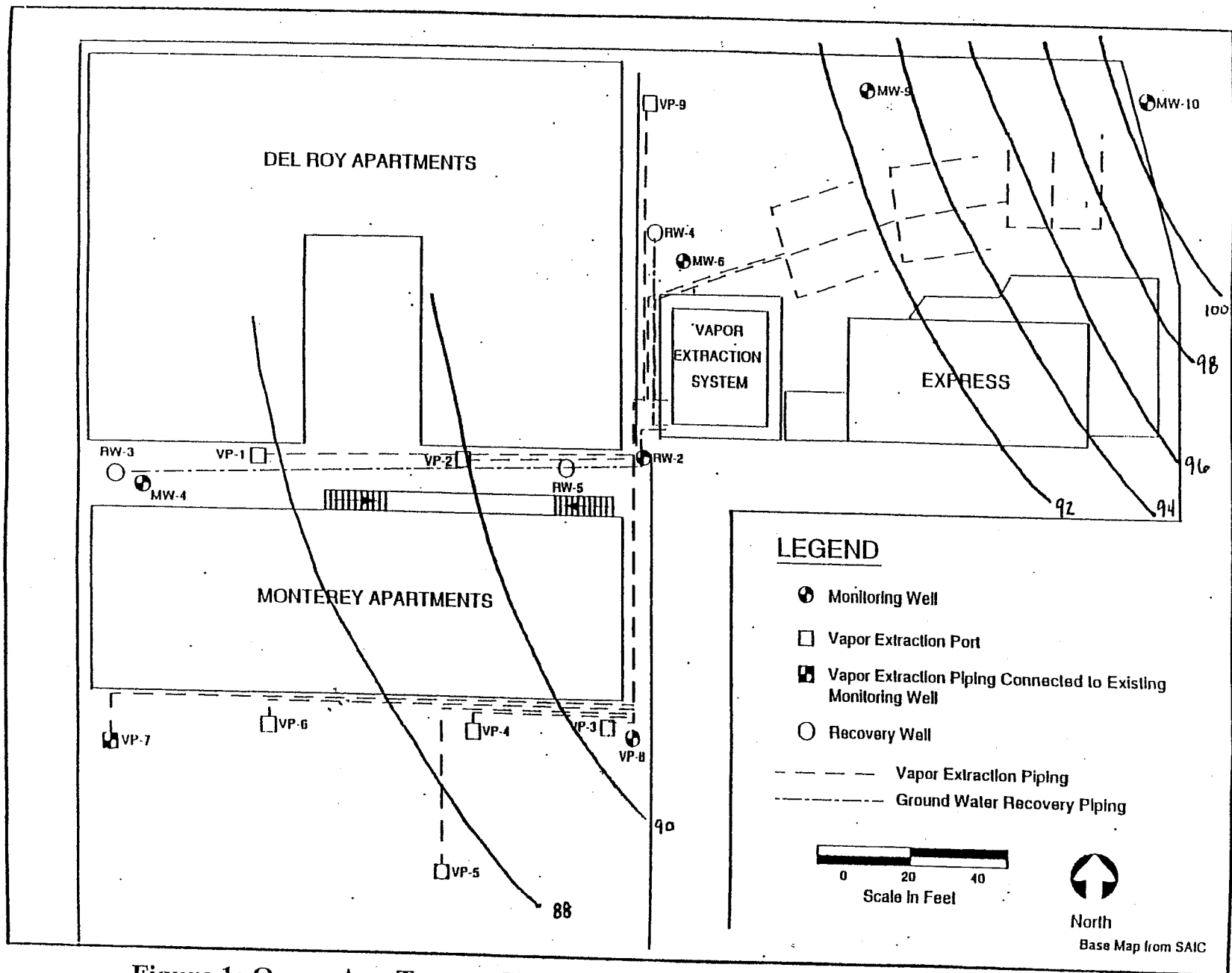


Figure 1: Queen Ann Texaco - Water Table Contour Measurements (11/3/86)



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28 December, 1999

Peter Jewett
Farallon Consulting LLC
320 Third Avenue NE, Suite 200
Issaquah, WA 98027

RE: Queen Ann Texaco

Enclosed are the results of analyses for samples received by the laboratory on 12/16/99 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kirk Gendron
Project Manager



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Farallon Consulting LLC
 320 Third Avenue NE, Suite 200
 Issaquah WA, 98027

Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VP-7	B9L0316-01	Water	12/14/99 15:15	12/16/99 14:15
VP-9	B9L0316-02	Water	12/15/99 09:30	12/16/99 14:15
MW-9	B9L0316-03	Water	12/15/99 10:20	12/16/99 14:15
MW-10	B9L0316-04	Water	12/15/99 11:30	12/16/99 14:15
MW-4	B9L0316-05	Water	12/15/99 13:35	12/16/99 14:15
VP-5	B9L0316-06	Water	12/15/99 15:10	12/16/99 14:15
VP-8	B9L0316-07	Water	12/15/99 15:50	12/16/99 14:15
VP-2	B9L0316-08	Water	12/15/99 16:00	12/16/99 14:15

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Kirk Gendron
 Kirk Gendron, Project Manager



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Farallon Consulting LLC
 320 Third Avenue NE, Suite 200
 Issaquah WA, 98027

Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

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	N
VP-7 (B9L0316-01) Water Sampled: 12/14/99 15:15 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	73400	10000	ug/l	200	9L17005	12/17/99	12/17/99	NWTPH-Gx/8021B	
Benzene	16800	100	"	"	"	"	"	"	
Toluene	9670	100	"	"	"	"	"	"	
Ethylbenzene	1890	100	"	"	"	"	"	"	
Xylenes (total)	10500	200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		90.6 %	50-150		"	"	"	"	
Surrogate: 4-BFB (PID)		100 %	50-150		"	"	"	"	
VP-9 (B9L0316-02) Water Sampled: 12/15/99 09:30 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	118	50.0	ug/l	1	9L17005	12/17/99	12/17/99	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		89.2 %	50-150		"	"	"	"	
Surrogate: 4-BFB (PID)		100 %	50-150		"	"	"	"	
MW-9 (B9L0316-03) Water Sampled: 12/15/99 10:20 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	4460	1000	ug/l	20	9L17005	12/17/99	12/17/99	NWTPH-Gx/8021B	
Benzene	831	10.0	"	"	"	"	"	"	
Toluene	22.4	10.0	"	"	"	"	"	"	
Ethylbenzene	274	10.0	"	"	"	"	"	"	
Xylenes (total)	138	20.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		89.6 %	50-150		"	"	"	"	
Surrogate: 4-BFB (PID)		103 %	50-150		"	"	"	"	

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Kirk Gendron, Project Manager

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 Environmental Laboratory Network

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 541.383.9310 fax 541.382.7588

Farallon Consulting LLC
 320 Third Avenue NE, Suite 200
 Issaquah WA, 98027

Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

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	No
MW-10 (B9L0316-04) Water Sampled: 12/15/99 11:30 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	618	50.0	ug/l	1	9L17005	12/17/99	12/17/99	NWTPH-Gx/8021B	
Benzene	7.02	0.500	"	"	"	"	"	"	
Toluene	ND	0.910	"	"	"	"	"	"	1
Ethylbenzene	ND	0.850	"	"	"	"	"	"	1
Xylenes (total)	ND	4.22	"	"	"	"	"	"	1
Surrogate: 4-BFB (FID)		102 %	50-150		"	"	"	"	
Surrogate: 4-BFB (PID)		98.5 %	50-150		"	"	"	"	
MW-4 (B9L0316-05) Water Sampled: 12/15/99 13:35 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	73300	10000	ug/l	200	9L17005	12/17/99	12/17/99	NWTPH-Gx/8021B	
Benzene	13700	100	"	"	"	"	"	"	
Toluene	13500	100	"	"	"	"	"	"	
Ethylbenzene	1830	100	"	"	"	"	"	"	
Xylenes (total)	11000	200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		87.9 %	50-150		"	"	"	"	
Surrogate: 4-BFB (PID)		99.2 %	50-150		"	"	"	"	
VP-5 (B9L0316-06) Water Sampled: 12/15/99 15:10 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	23400	250	ug/l	5	9L17005	12/17/99	12/17/99	NWTPH-Gx/8021B	
Benzene	841	25.0	"	50	"	"	12/18/99	"	
Toluene	191	2.50	"	5	"	"	12/17/99	"	
Ethylbenzene	1480	25.0	"	50	"	"	12/18/99	"	
Xylenes (total)	7720	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		119 %	50-150		"	"	12/17/99	"	
Surrogate: 4-BFB (PID)		99.6 %	50-150		"	"	"	"	

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Kirk Gendron, Project Manager

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Farallon Consulting LLC
 320 Third Avenue NE, Suite 200
 Issaquah WA, 98027

Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

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	N
VP-8 (B9L0316-07) Water Sampled: 12/15/99 15:50 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	7640	2500	ug/l	50	9L17005	12/17/99	12/18/99	NWTPH-Gx/8021B	
Benzene	540	25.0	"	"	"	"	"	"	
Toluene	927	25.0	"	"	"	"	"	"	
Ethylbenzene	201	25.0	"	"	"	"	"	"	
Xylenes (total)	1430	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		87.5 %	50-150		"	"	"	"	
Surrogate: 4-BFB (PID)		98.5 %	50-150		"	"	"	"	
VP-2 (B9L0316-08) Water Sampled: 12/15/99 16:00 Received: 12/16/99 14:15									
Gasoline Range Hydrocarbons	5980	1000	ug/l	20	9L17005	12/17/99	12/17/99	NWTPH-Gx/8021B	
Benzene	935	10.0	"	"	"	"	"	"	
Toluene	345	10.0	"	"	"	"	"	"	
Ethylbenzene	43.8	10.0	"	"	"	"	"	"	
Xylenes (total)	305	20.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		85.4 %	50-150		"	"	"	"	
Surrogate: 4-BFB (PID)		100 %	50-150		"	"	"	"	

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Farallon Consulting LLC
 320 Third Avenue NE, Suite 200
 Issaquah WA, 98027

Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Nc
VP-7 (B9L0316-01) Water Sampled: 12/14/99 15:15 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	3.31	0.250	mg/l	1	9L18001	12/18/99	12/20/99	NWTPH-Dx	I
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP		95.0 %	50-150		"	"	"	"	
VP-9 (B9L0316-02) Water Sampled: 12/15/99 09:30 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	9L18001	12/18/99	12/20/99	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP		85.8 %	50-150		"	"	"	"	
MW-9 (B9L0316-03) Water Sampled: 12/15/99 10:20 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	8.51	0.250	mg/l	1	9L18001	12/18/99	12/20/99	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP		74.0 %	50-150		"	"	"	"	
MW-10 (B9L0316-04) Water Sampled: 12/15/99 11:30 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	0.353	0.250	mg/l	1	9L20014	12/20/99	12/22/99	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP		74.2 %	50-150		"	"	"	"	
MW-4 (B9L0316-05) Water Sampled: 12/15/99 13:35 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	3.34	0.250	mg/l	1	9L20014	12/20/99	12/21/99	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP		79.5 %	50-150		"	"	"	"	
VP-5 (B9L0316-06) Water Sampled: 12/15/99 15:10 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	2.49	0.250	mg/l	1	9L20014	12/20/99	12/22/99	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP		94.0 %	50-150		"	"	"	"	

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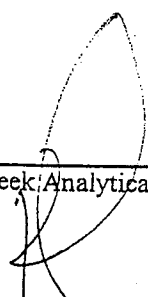
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 320 Third Avenue NE, Suite 200
 Issaquah WA, 98027

Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Nc
VP-8 (B9L0316-07) Water Sampled: 12/15/99 15:50 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	2.78	0.250	mg/l	1	9L20014	12/20/99	12/21/99	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP		65.6 %	50-150		"	"	"	"	
VP-2 (B9L0316-08) Water Sampled: 12/15/99 16:00 Received: 12/16/99 14:15									
Diesel Range Hydrocarbons	29.9	1.25	mg/l	5	9L20014	12/20/99	12/22/99	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	2.50	"	"	"	"	"	"	
Surrogate: 2-FBP		67.2 %	50-150		"	"	"	"	

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Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

Total Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	No
VP-7 (B9L0316-01) Water Sampled: 12/14/99 15:15 Received: 12/16/99 14:15									
Lead	0.00591	0.00100	mg/l	1	9L17012	12/17/99	12/22/99	EPA 6020	
VP-9 (B9L0316-02) Water Sampled: 12/15/99 09:30 Received: 12/16/99 14:15									
Lead	0.00572	0.00100	mg/l	1	9L17012	12/17/99	12/21/99	EPA 6020	
MW-9 (B9L0316-03) Water Sampled: 12/15/99 10:20 Received: 12/16/99 14:15									
Lead	0.0150	0.00100	mg/l	1	9L17012	12/17/99	12/21/99	EPA 6020	
MW-10 (B9L0316-04) Water Sampled: 12/15/99 11:30 Received: 12/16/99 14:15									
Lead	ND	0.00100	mg/l	1	9L17012	12/17/99	12/21/99	EPA 6020	
MW-4 (B9L0316-05) Water Sampled: 12/15/99 13:35 Received: 12/16/99 14:15									
Lead	0.0198	0.00100	mg/l	1	9L17012	12/17/99	12/21/99	EPA 6020	
VP-5 (B9L0316-06) Water Sampled: 12/15/99 15:10 Received: 12/16/99 14:15									
Lead	0.00676	0.00100	mg/l	1	9L17012	12/17/99	12/21/99	EPA 6020	
VP-8 (B9L0316-07) Water Sampled: 12/15/99 15:50 Received: 12/16/99 14:15									
Lead	0.0406	0.00100	mg/l	1	9L17012	12/17/99	12/22/99	EPA 6020	
VP-2 (B9L0316-08) Water Sampled: 12/15/99 16:00 Received: 12/16/99 14:15									
Lead	0.262	0.00100	mg/l	1	9L17012	12/17/99	12/22/99	EPA 6020	

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Farallon Consulting LLC 320 Third Avenue NE, Suite 200 Issaquah WA, 98027	Project: Queen Ann Texaco Project Number: 619-010-003 Project Manager: Peter Jewett	Reported: 12/28/99 14:40
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Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	N
VP-7 (B9L0316-01) Water Sampled: 12/14/99 15:15 Received: 12/16/99 14:15									
Manganese	7.76	0.0200	mg/l	20	9L17011	12/17/99	12/22/99	EPA 6020	
Lead	0.00211	0.00100	"	1	"	"	12/19/99	"	
VP-9 (B9L0316-02) Water Sampled: 12/15/99 09:30 Received: 12/16/99 14:15									
Lead	ND	0.00100	mg/l	1	9L17011	12/17/99	12/19/99	EPA 6020	
MW-9 (B9L0316-03) Water Sampled: 12/15/99 10:20 Received: 12/16/99 14:15									
Lead	0.00103	0.00100	mg/l	1	9L17011	12/17/99	12/19/99	EPA 6020	
MW-10 (B9L0316-04) Water Sampled: 12/15/99 11:30 Received: 12/16/99 14:15									
Manganese	5.12	0.0200	mg/l	20	9L17011	12/17/99	12/22/99	EPA 6020	
Lead	ND	0.00100	"	1	"	"	12/19/99	"	
MW-4 (B9L0316-05) Water Sampled: 12/15/99 13:35 Received: 12/16/99 14:15									
Manganese	10.5	0.0500	mg/l	50	9L17011	12/17/99	12/22/99	EPA 6020	
Lead	0.00986	0.00100	"	1	"	"	12/19/99	"	
VP-5 (B9L0316-06) Water Sampled: 12/15/99 15:10 Received: 12/16/99 14:15									
Lead	0.00275	0.00100	mg/l	1	9L17011	12/17/99	12/19/99	EPA 6020	
VP-8 (B9L0316-07) Water Sampled: 12/15/99 15:50 Received: 12/16/99 14:15									
Lead	0.00502	0.00100	mg/l	1	9L17011	12/17/99	12/19/99	EPA 6020	
VP-2 (B9L0316-08) Water Sampled: 12/15/99 16:00 Received: 12/16/99 14:15									
Lead	0.0617	0.00100	mg/l	1	9L17011	12/17/99	12/19/99	EPA 6020	

North Creek Analytical - Bothell

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Farallon Consulting LLC
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Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

**Conventional Chemistry Parameters by PSEP Recommended Guidelines
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	N
VP-7 (B9L0316-01) Water Sampled: 12/14/99 15:15 Received: 12/16/99 14:15									
Ferrous Iron	11.7	5.00	mg/l	10	9L17027	12/16/99	12/17/99	SM 3500-Fe D	
MW-10 (B9L0316-04) Water Sampled: 12/15/99 11:30 Received: 12/16/99 14:15									
Ferrous Iron	ND	2.00	mg/l	4	9L17027	12/16/99	12/17/99	SM 3500-Fe D	
MW-4 (B9L0316-05) Water Sampled: 12/15/99 13:35 Received: 12/16/99 14:15									
Ferrous Iron	6.15	5.00	mg/l	10	9L17027	12/16/99	12/17/99	SM 3500-Fe D	

North Creek Analytical - Bothell

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Project: Queen Ann Texaco
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 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

Anions by EPA Method 300.0
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	N
VP-7 (B9L0316-01) Water Sampled: 12/14/99 15:15 Received: 12/16/99 14:15									
Nitrate-Nitrogen	ND	0.100	mg/L as N	1	9L17037	12/17/99	12/17/99	EPA 300.0	1
Sulfate	13.4	0.200	mg/l	"	"	"	"	"	"
MW-10 (B9L0316-04) Water Sampled: 12/15/99 11:30 Received: 12/16/99 14:15									
Nitrate-Nitrogen	0.720	0.100	mg/L as N	1	9L17037	12/17/99	12/17/99	EPA 300.0	
Sulfate	70.6	2.00	mg/l	10	"	"	"	"	
MW-4 (B9L0316-05) Water Sampled: 12/15/99 13:35 Received: 12/16/99 14:15									
Nitrate-Nitrogen	ND	0.100	mg/L as N	1	9L17037	12/17/99	12/17/99	EPA 300.0	
Sulfate	ND	0.200	mg/l	"	"	"	"	"	

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Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L17005: Prepared 12/17/99 Using EPA 5030B (P/T)										
Blank (9L17005-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)	40.9		"	48.0		85.2	50-150			
Surrogate: 4-BFB (PID)	46.9		"	48.0		97.7	50-150			
LCS (9L17005-BS1)										
Gasoline Range Hydrocarbons	455	50.0	ug/l	500		91.0	70-130			
Surrogate: 4-BFB (FID)	43.5		"	48.0		90.6	50-150			
Duplicate (9L17005-DUP1) Source: B9L0316-06										
Gasoline Range Hydrocarbons	25900	2500	ug/l		23400			10.1	25	
Surrogate: 4-BFB (FID)	44.6		"	48.0		92.9	50-150			
Duplicate (9L17005-DUP2) Source: B9L0300-03										
Gasoline Range Hydrocarbons	ND	50.0	ug/l		14.0			8.18	25	
Surrogate: 4-BFB (FID)	38.6		"	48.0		80.4	50-150			
Matrix Spike (9L17005-MS1) Source: B9L0300-02										
Benzene	10.0	0.500	ug/l	10.0	ND	100	70-130			
Toluene	9.83	0.500	"	10.0	ND	98.3	70-130			
Ethylbenzene	10.2	0.500	"	10.0	ND	102	70-130			
Xylenes (total)	30.5	1.00	"	30.0	ND	102	70-130			
Surrogate: 4-BFB (PID)	47.7		"	48.0		99.4	50-150			
Matrix Spike Dup (9L17005-MSD1) Source: B9L0300-02										
Benzene	10.1	0.500	ug/l	10.0	ND	101	70-130	0.995	15	
Toluene	9.89	0.500	"	10.0	ND	98.9	70-130	0.609	15	
Ethylbenzene	10.3	0.500	"	10.0	ND	103	70-130	0.976	15	
Xylenes (total)	30.6	1.00	"	30.0	ND	102	70-130	0.327	15	
Surrogate: 4-BFB (PID)	48.0		"	48.0		100	50-150			

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Page 11 of 1



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Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L18001: Prepared 12/18/99 Using EPA 3520C/600 Series										
Blank (9L18001-BLK1)										
Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.266		"	0.320		83.1	50-150			
LCS (9L18001-BS1)										
Diesel Range Hydrocarbons	1.94	0.250	mg/l	2.00		97.0	60-140			
Surrogate: 2-FBP	0.266		"	0.320		83.1	50-150			
LCS Dup (9L18001-BSD1)										
Diesel Range Hydrocarbons	1.82	0.250	mg/l	2.00		91.0	60-140	6.38	40	
Surrogate: 2-FBP	0.252		"	0.320		78.8	50-150			
Batch 9L20014: Prepared 12/20/99 Using EPA 3510C/600 Series										
Blank (9L20014-BLK1)										
Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.226		"	0.320		70.6	50-150			
LCS (9L20014-BS1)										
Diesel Range Hydrocarbons	1.76	0.250	mg/l	2.00		88.0	60-140			
Surrogate: 2-FBP	0.275		"	0.320		85.9	50-150			
LCS Dup (9L20014-BSD1)										
Diesel Range Hydrocarbons	1.62	0.250	mg/l	2.00		81.0	60-140	8.28	40	
Surrogate: 2-FBP	0.241		"	0.320		75.3	50-150			

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 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

Farallon Consulting LLC
 320 Third Avenue NE, Suite 200
 Issaquah WA, 98027

Project: Queen Ann Texaco
 Project Number: 619-010-003
 Project Manager: Peter Jewett

Reported:
 12/28/99 14:40

Anions by EPA Method 300.0 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L17037: Prepared 12/17/99 Using General Preparation										
Blank (9L17037-BLK1)										
Nitrate-Nitrogen	ND	0.100	mg/L as N							
Sulfate	ND	0.200	mg/l							
LCS (9L17037-BS1)										
Nitrate-Nitrogen	1.00	0.100	mg/L as N	1.00		100	90-110			
Sulfate	6.08	0.200	mg/l	6.00		101	90-110			
Duplicate (9L17037-DUP1) Source: B9L0323-03										
Nitrate-Nitrogen	0.615	0.100	mg/L as N		0.620			0.810	25	
Sulfate	2.60	0.200	mg/l		2.57			1.16	8	
Duplicate (9L17037-DUP2) Source: B9L0344-07										
Nitrate-Nitrogen	0.847	0.100	mg/L as N		0.844			0.355	25	
Matrix Spike (9L17037-MS1) Source: B9L0323-03										
Nitrate-Nitrogen	1.51	0.100	mg/L as N	1.00	0.620	89.0	77-117			
Sulfate	8.46	0.200	mg/l	6.00	2.57	98.2	57-134			
Matrix Spike (9L17037-MS2) Source: B9L0344-07										
Nitrate-Nitrogen	1.78	0.100	mg/L as N	1.00	0.844	93.6	77-117			

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain custody document. This analytical report must be reproduced in its entire.

Kirk Gendron, Project Manager

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Page 16 of 1



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 541.383.9310 fax 541.382.7588

Farallon Consulting LLC 320 Third Avenue NE, Suite 200 Issaquah WA, 98027	Project: Queen Ann Texaco Project Number: 619-010-003 Project Manager: Peter Jewett	Reported: 12/28/99 14:40
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Notes and Definitions

- B-08 These samples were out of hold time at the time of receipt. Therefore, results are inconclusive and may represent false negatives or positives.
- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- Q-15 Analyses are not controlled on matrix spike RPD and/or percent recoveries when the sample concentration is significantly higher than the spike level.
- R-03 The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- 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

Kirk Gendron, Project Manager

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Environmental Laboratory Network

CHAIN OF CUSTODY REPORT

Work Order # **3920316**

REPORT TO: **Peter Jewitt**
ATTENTION:
ADDRESS: **Farallon Consulting**
320 3rd Ave NE, Ste 200, Issaquah WA
PHONE: **(425) 427-0061** FAX: **(425) 427-0007**
PROJECT NAME: **Queen Ann Texaco**
PROJECT NUMBER: **619-010-003**
SAMPLED BY: **K Saganaski / T Brown**

INVOICE TO: **Texaco**
ATTENTION:
ADDRESS: **Queen Ann Texaco**
P.O. NUMBER: **619-010-003** NCA QUOTE #:

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses
 Standard 7 5 4 3 2 1 Same Day

Fuels & Hydrocarbon Analyses
 Standard 3-4 2 1 Same Day

OTHER Specify: _____

* Turnaround Requests less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	TPH-GAS/BTEX	NWTPH-DX	Total Pb	Disss Pb	Disss Mn	Disss Ferrrous Iron	Nitrate	Sulfate	DO
1. VP-7	12/14/99/1515	3920316-01	X	X	X	X	X	X	X	X	
2. VP-9	12/15/99/0930	02	X	X	X	X					
3. MW-9	12/15/99/1020	03	X	X	X	X					
4. MW-10	12/15/99/1130	04	X	X	X	X	X	X	X		
5. MW-4	12/15/99/1335	05	X	X	X	X	X	X	X		
6. VP-5	12/15/99/1510	06	X	X	X	X					
7. VP-8	12/15/99/1550	07	X	X	X	X					
8. VP-2	12/15/99/1600	08	X	X	X	X					
9. APT 102	12/13/99/1100	09									

MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
W	6	
	5	
	5	
	6	
	6	
	5	
	5	
	5	

RELINQUISHED BY (Signature): **K Saganaski** DATE: **12/15/99**
PRINT NAME: **K Saganaski** FIRM: **Farallon** TIME: **16:15**

RELINQUISHED BY (Signature): **Timothy S Brown** DATE: **12/16/99**
PRINT NAME: **Timothy S Brown** FIRM: **Farallon** TIME: **11:30**

RECEIVED BY (Signature): **Timothy S Brown** DATE: **12/15/99**
PRINT NAME: **Timothy S Brown** FIRM: **Farallon** TIME: **16:15**

RECEIVED BY (Signature): **JR Smith** DATE: **12/16/99**
PRINT NAME: **J. Smith** FIRM: **Farallon** TIME: **11:30 AM**

ADDITIONAL REMARKS: **JR Smith**
J-R Smith **12/16/99**

REL. Bill Keen NCA 12-16-99 13:00
REL. Bill Keen NCA 12-16-99 14:15