PORSF 11.3.234.1 V,13
(pt.5) 8/19/2008

Date: July 2, 1998
Project: 1115-099.2A

To: Mr. Eric Conard
GATX Tank Storage Terminals Corp.
2000 E. Sepulveda Boulevard
Carson, California 90810-1995

Mr. Martin Cramer
Tosco Distribution Company
5528 NW Doane Avenue
Portland, Oregon 97210

Mr. Irv Jenkins
Shell Oil Products Company
777 Walker Street
Houston, Texas 77252-2099

Mr. Gerald O'Regan
Chevron Products Company
6001 Bollinger Canyon Road
San Ramon, California 94538-0804

We have enclosed:

Copies	Description
1	First Quarter (December - February) 1998 Report
	RI/FS Interim Action
	Willbridge Facility

For your:
- X Use
- ___ Approval
- ___ Review
- ___ Information

Comments: Enclosed is the above mentioned First Quarter report for Willbridge. Please call if you have any comments or questions. Thanks,

Lance Geselbracht

USEPA SF
1363597
COPPOR00005151

July 2, 1998
Project 1115-099.2A

Ms. Jill Kiernan, P.E.
Waste Management and Cleanup
Oregon Department of Environmental Quality
2020 SW Fourth Avenue, Suite 400
Portland, Oregon 97204

Re: First Quarter (December 1997 - February 1998) Report
RI/FS Interim Action
Willbridge Bulk Fuel Facilities
Portland, Oregon
Consent Order WMCSR-NWR-94-06

Dear Ms. Kiernan:

Pacific Environmental Group, Inc. (PEG), is pleased to present the first quarter 1998 progress report for the remedial investigation/feasibility study (RI/FS) work being performed at the Chevron, GATX, and Tosco terminals which compose the Willbridge Bulk Fuel Facilities (Willbridge Facility) in Portland, Oregon (Figure 1). This letter presents a summary of the following:

- Actions taken under the Consent Order from December 1997 to February 1998.
- First Quarter 1997 sampling, test results, and other data generated between December 1997 to February 1998.

This progress report fulfills the requirement of Section 7F of Oregon Department of Environmental Quality (DEQ) Consent Order WMCSR-NWR-94-06.

ACTIVITIES PERFORMED FIRST QUARTER 1998

The following work was performed during December 1997 through February 1998:

- Performed quarterly groundwater sampling at the Chevron, GATX, and Tosco terminals. Groundwater sampling procedure is presented as Attachment A.

PACIFIC
ENVIRONMENTAL
GROUP, INC.

AN PT COMPANY

Date: July 2, 1998
Project: 1115-099.2A

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Comments: Enclosed is the above mentioned First Quarter report for Willbridge. Please call if you have any comments or questions. Thanks,

Lance Geselbracht

7233 SW Kable Lane, Suite 900, Bldg. F • Portland, Oregon 97224-7183 (503) 639-6305 FAX (503) 639-7482

PROBLEMS ENCOUNTERED DURING FIRST QUARTER 1998

No problems were encountered during December 1997 through February 1998.

A letter of "Notice of Noncompliance" (NON) was issued by the spill response division of DEQ for a sheen first noticed at the 60-inch outfall on March 4, 1998. The response to the NON and actions taken will be discussed in the second quarter report.

ACTIVITIES SCHEDULED FOR SECOND QUARTER 1998 (MARCH 1998 - MAY 1998)

The following actions are scheduled for Second Quarter 1998:

- Monthly SPH removal from identified wells.
- Gauging of water level elevations and SPH in all facility wells during the second quarter sampling event, scheduled for April 1998.
- Response to the NON letter from DEQ.

PEG appreciates the opportunity to be of service. If you have any questions regarding this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

Jennifer Callison
Staff Geologist

Lance Geselbracht, P.E.
Senior Engineer

- Performed monthly separate-phase hydrocarbon (SPH) removal from wells located on the Chevron, GATX, and Tosco terminals.

FIRST QUARTER 1998 MONITORING ANALYSIS

Interim action monitoring activities performed during the first quarter included depth to groundwater and SPH thickness measurements for all wells, and groundwater sampling from selected wells.

Hydrogeological Analysis

Depth to groundwater measurements were performed in January 1998. Measurements were corrected for SPH where encountered. A groundwater table contour map using the January 1998 data is shown on Figure 2. The January 1998 groundwater elevation data is presented in Table 1. Water elevation and SPH recovery data for January 1998 and historic water elevation measurements are presented in Table 5.

During the first quarter (December 1997 to February 1998), water table elevations in the vicinity of the river increased from fourth quarter levels by approximately 1 foot, while water table elevations in upgradient facility wells increased by approximately 1.5 foot. These changes are likely in response to an increase in river stage combined with upgradient recharge.

The direction of groundwater flow, inferred from the elevation contours, is generally toward the river, with a localized groundwater mound in the GATX south tank farm, and apparent elongated groundwater depressions (troughs) in the vicinity of Doane Avenue and the Saltzman Creek flume.

Hydrological Analysis

The Willamette River stage (measured at the Morrison Bridge river gauge and converted to City of Portland datum) ranged from a quarterly high of 13.33 feet on January 15, 1998 to a low of 7.29 feet December 26, 1998. The river stage averaged approximately 12.02 feet between January 19 and January 27, 1998, the dates of the first quarter groundwater monitoring event. Precipitation and river stage data are shown on Figure 4.

Groundwater Analytical Results

Pursuant with the January 16, 1997 meeting with Jill Kiernan of the DEQ, groundwater samples collected from selected facility monitoring wells between January 21 and January 27, 1998 were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds by EPA Method 8020, polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270-SIM, and total and dissolved RCRA Metals (arsenic, barium,

M

cadmium, chromium, lead, mercury, selenium, and silver) by EPA 6000/7000 Series Methods. The groundwater sampling protocol is presented as Attachment A.

The January 1998 BTEX results are presented in Table 2. The January 1998 PAH results are presented in Table 3. The metals results are presented in Tables 4A and 4B. Certified analytical results for the January 1998 sampling event are presented as Attachment A. Samples were not collected from wells containing SPH (as designated by NS/F in the tables).

BTEX Compounds

The January 1998 BTEX testing results appear to be consistent with the October 1997 results. Concentrations of BTEX decreased from last quarter results in Wells B-14, B-28, B-30, MW-8, MW-22, MW-23, MW-37, and B-17. Concentrations of BTEX in Wells B-9, B-10, B-11, CR-11, MW-8, MW-10, MW-11, MW-15, MW-26, B-6, U-2, and U-3 increased from the last quarter results.

Concentrations of BTEX were reported non-detect in Wells B-7, CR-8, CR-9, MW-13, MW-28, MW-31, MW-32, MW-33, MW-36, MW-40, and B-36.

PAH Compounds

The January 1998 PAH analytical results appear to be consistent with previous results. Concentrations of PAHs increased in Wells B-7, B-10, B-11, B-14, CR-11, MW-10, MW-11, MW-23, MW-26, MW-28, and U-2. Concentrations decreased in Wells B-9, CR-8, MW-8, MW-15, MW-22, MW-31, MW-37, B-6, B-17, and U-3. Concentrations remained consistent in Wells CR-9, MW-13, MW-32, MW-33, MW-40, and B-36.

A general decrease in concentrations of carcinogenic PAHs (CPAHs) was reported for January 1998. CPAHs were detected in Wells B-10, B-14, CR-8, MW-23, and MW-28. All other wells analyzed for PAHs were non-detect for CPAHs.

Wells B-28, B-30, CR-9, MW-13, MW-32, MW-33, MW-36, MW-40, B-36, and U-3 were reported as non-detect for all PAH compounds at method detection limits.

Metals

Analytical results for total metals report concentrations of barium in all sampled wells. Concentrations of arsenic were detected in 28 wells, cadmium in 3 wells, chromium in 20 wells, lead in 19 wells, mercury in 12 wells, selenium in 7 wells, and silver in none of the 30 wells sampled. Concentrations of total metals remained below 1 part per million (ppm) in all sampled wells.

Analytical results for dissolved metals report concentrations of barium in all sampled wells. Arsenic was detected in 4 wells, lead in 2 wells, and mercury in 2 wells of the 6 wells sampled. Concentrations of cadmium, chromium, selenium, and silver were not detected in a dissolved state.

Separate-Phase Hydrocarbon Analysis

Separate-phase hydrocarbon thicknesses were measured at selected wells on a monthly basis (Tables 1 and Table 5). An apparent SPH thickness map for January 1998 is shown on Figure 3.

The January 1998 product measurements generally indicate SPH thicknesses similar to previous quarter measurements in the riverfront area wells (Table 5). North of Front Avenue, SPH was measured in Tosco Wells B-1, B-4, B-22, B-39, and IT-E.

South of Front Avenue, SPH was measured in Tosco Well U-4. Separate-phase hydrocarbon thicknesses were also measured in CR-7 and CR-10, along the perimeter of the Chevron tank farm. Separate-phase hydrocarbon thicknesses were measured in Wells MW-7, and MW-24, within the GATX terminal.

SEPARATE-PHASE HYDROCARBON RECOVERY

Monthly manual recovery of SPH at the facility was initiated in early February 1997. Approximately 411 gallons of SPH have been removed to date by manual recovery methods. Approximately 42.36 gallons were manually recovered from December 1997 through February 1998.

Separate-phase hydrocarbon recovery by pumping was performed December 29 1997, January 28 1998, and February 26, 1998. Approximately 20.75 gallons of SPH were removed from Wells MW-7 and MW-24 at the GATX terminal. Approximately 14.6 gallons of SPH were removed from Wells B-1, B-4, B-22, B-27, B-39, IT-E, and U-4 at the Tosco terminal. Approximately 7 gallons of SPH were removed from Wells CR-6, CR-7, and CR-10 at the Chevron terminal. SPH recovery data are presented in Table 1 and Table 5.

Seep and Sheen Monitoring

Containment booms currently encompass the shoreline between the Chevron and Tosco docks, and from the south edge of the Tosco dock to the southern property line (beyond the new Doane Avenue storm sewer outfall). Additionally, secondary containment booms are located inside of the first boom around the new Doane Avenue outfall pipe. Seeps and sheens are monitored by terminal personnel; significant sheens are reported to PEG for further evaluation. No significant sheens were reported during First Quarter 1998.

PROBLEMS ENCOUNTERED DURING FIRST QUARTER 1998

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PEG appreciates the opportunity to be of service. If you have any questions regarding this letter, please call.

Sincerely,

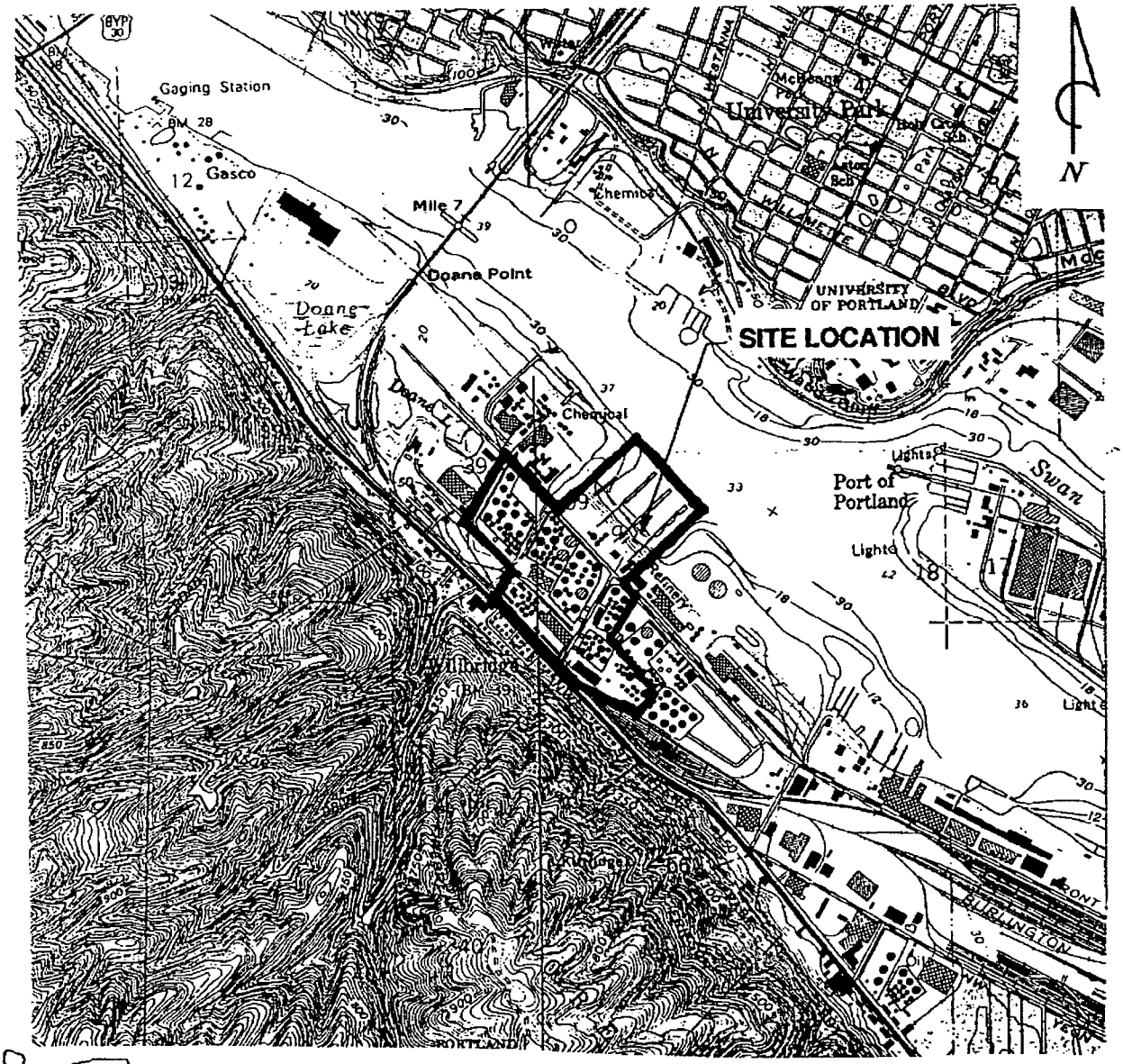
Pacific Environmental Group, Inc.

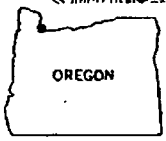
Jennifer Callison
Staff Geologist

Lance Geselbracht, P.E.
Senior Engineer

Attachments: Figure 1- Site Location Map
Figure 2 - Groundwater Elevation Contour Map (January 1998)
Figure 3 - Separate-Phase Hydrocarbon Thickness Map (January 1998)
Figure 4 - Precipitation and River Stage Hydrograph, First Quarter 1998
Table 1 - Groundwater Elevation Data and SPH Recovery Data (January 1998)
Table 2 - Groundwater Analytical Results (BTEX April 1997 through January 1998)
Table 3 - Groundwater Analytical Results (PAHs April 1997 through January 1998)
Table 4A - Groundwater Analytical Results (Total Metals April 1997 through January 1998)
Table 4B - Groundwater Analytical Results (Dissolved Metals April 1997 through January 1998)
Table 5 - Groundwater Elevation and SPH Recovery Data (March 1995 to February 1998)
Attachment A - Sampling Protocol, Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Eric Conard, GATX Terminals Corporation
Mr. Marty Cramer, Tosco Distribution Company
Mr. Irv Jenkins, Shell Oil Products Company
Mr. Gerald O'Regan, Chevron Products Company





QUADRANGLE LOCATION

REFERENCES:

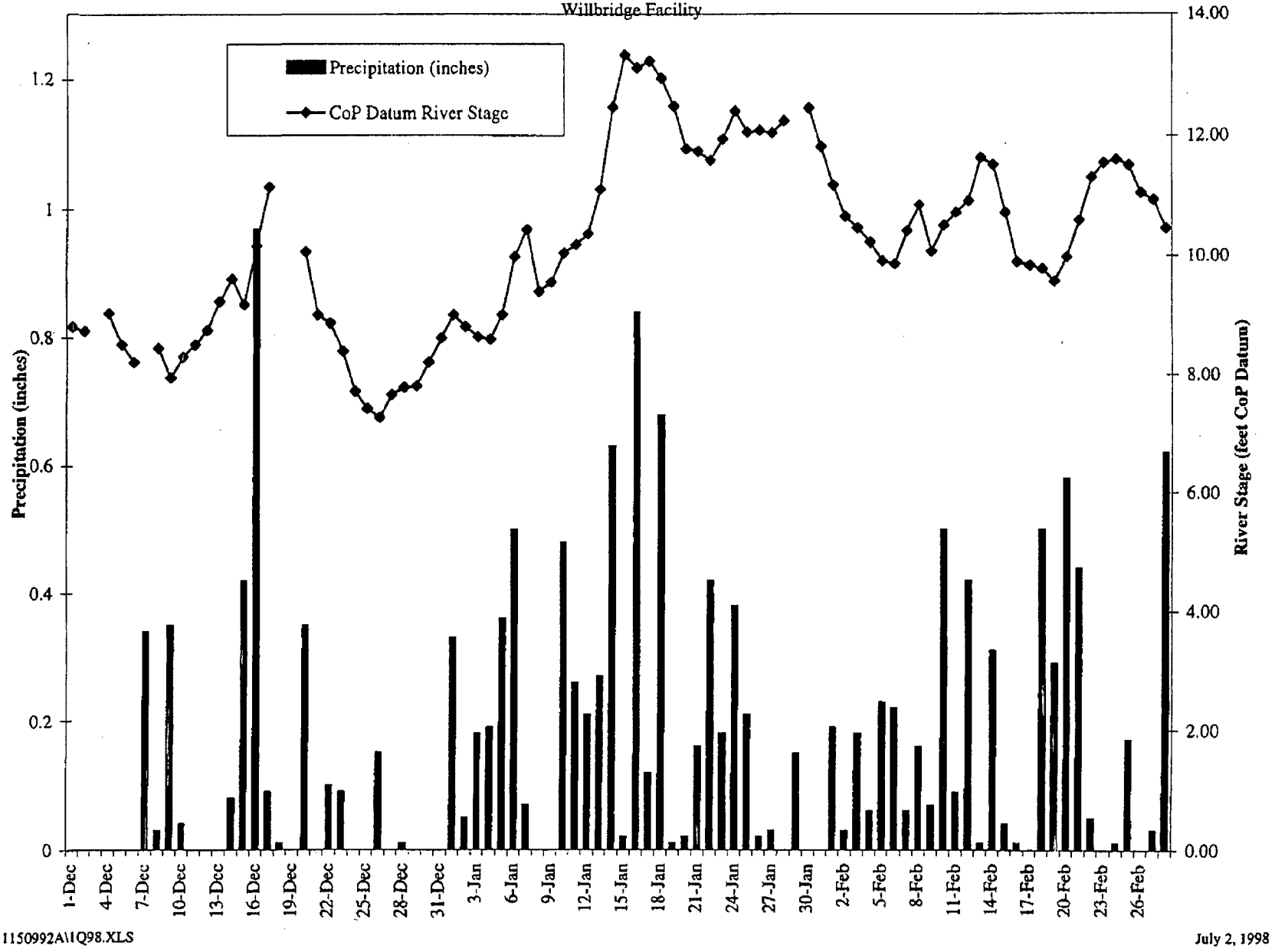
USGS 7.5 MIN TOPOGRAPHIC MAP
TITLED: PORTLAND, OREG-WASH
DATED: 1961 PHOTOREVISED: 1970-1977
TITLED: LINNTON, OREGON
DATED: 1990

SCALE IN FEET

2000 0 2000

PACIFIC ENVIRONMENTAL GROUP, INC.	**WILLBRIDGE FACILITY** Portland, Oregon	FIGURE: **1**
	SITE LOCATION MAP	PROJECT: 1115-099.2A

Figure 4
Precipitation and River Stage
December -February 1998
Willbridge Facility



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July 2, 1998

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Table 1
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	Total SPH Recovered this Quarter** (gallons)
			Chevron				
B-7	33.96	01/19/98	NP	0.00	17.85	16.11	0.00
B-8	35.90	01/19/98	NP	0.00	16.67	19.23	0.00
B-9	33.95	01/19/98	NP	0.00	16.11	17.84	0.00
B-10	34.74	01/19/98	NP	0.00	15.07	19.67	0.00
B-11	34.95	01/19/98	NP	0.00	15.15	19.80	0.00
B-12	35.11	01/19/98	NP	0.00	15.70	19.41	0.00
B-13	34.76	01/19/98	NP	0.00	15.80	18.96	0.00
B-14	36.59	01/19/98	NP	0.00	17.61	18.98	0.00
B-15	35.55	01/19/98	NP	0.00	16.72	18.83	0.00
B-19	34.71	01/19/98	NP	0.00	16.05	18.66	0.00
B-20	33.40	01/19/98	NP	0.00	16.31	17.09	0.00
B-21	34.79	01/19/98	NP	0.00	16.33	18.46	0.00
B-24	34.70	01/19/98	NM	0.00	NM	0.00	0.00
B-26	35.30	01/19/98	NP	0.00	15.64	19.66	0.00
B-28	35.25	01/19/98	NP	0.00	15.47	19.78	0.00
B-29	37.70	01/19/98	NP	0.00	15.54	22.16	0.00
B-30	35.35	01/19/98	NP	0.00	15.02	20.33	0.00
B-31	33.86	01/19/98	NP	0.00	14.25	19.61	0.00
B-32	34.23	01/19/98	NP	0.00	15.84	18.39	0.00
B-33	35.90	01/19/98	NP	0.00	16.00	19.90	0.00
CR-1	22.08	01/19/98	NP	0.00	2.50	19.58	0.00
CR-3	34.32	01/19/98	NP	0.00	11.61	22.71	0.00
CR-4	37.14	01/19/98	NP	0.00	4.92	32.22	0.00
CR-6	35.61	01/19/98	NP	0.00	12.13	23.48	1.51
CR-7	35.57	01/19/98	10.45	0.01	10.46	25.12	0.50
CR-8	33.14	01/19/98	NP	0.00	5.78	27.36	0.00
CR-9	35.72	01/19/98	NP	0.00	3.01	32.71	0.00
CR-10	35.57	01/19/98	4.01	0.15	4.16	31.54	5.00
CR-11	34.43	01/19/98	NP	0.00	1.99	32.44	0.00
					Chevron total SPH Recovered this Quarter:		**7.01**

Table 1 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	Total SPH Recovered this Quarter** (gallons)
			GATX				
MW-1	35.43	01/19/98	NP	0.00	3.09	32.34	0.00
MW-2	35.77	01/19/98	NP	0.00	4.99	30.78	0.00
MW-3	36.02	01/19/98	NP	0.00	7.54	28.48	0.00
MW-4	36.39	01/19/98	NP	0.00	5.86	30.53	0.00
MW-5	33.52	01/19/98	NP	0.00	5.52	28.00	0.00
MW-6	33.34	01/19/98	NP	0.00	3.07	30.27	0.00
MW-7	34.12	01/19/98	7.92	1.76	9.68	25.94	20.00
MW-8	33.95	01/19/98	NP	0.00	7.18	26.77	0.00
MW-9	36.53	01/19/98	NP	0.00	10.28	26.25	0.00
MW-10	35.82	01/19/98	NP	0.00	8.24	27.58	0.00
MW-11	36.47	01/19/98	NP	0.00	4.81	31.66	0.00
MW-12	35.95	01/19/98	NP	0.00	4.43	31.52	0.00
MW-13	37.89	01/19/98	NP	0.00	3.43	34.46	0.00
MW-14	36.28	01/19/98	NP	0.00	2.50	33.78	0.00
MW-15	37.50	01/19/98	NP	0.00	4.43	33.07	0.00
MW-16	34.93	01/19/98	NP	0.00	2.90	32.03	0.00
MW-17	36.05	01/19/98	NP	0.00	4.12	31.93	0.00
MW-18	33.76	01/19/98	NP	0.00	0.73	33.03	0.00
MW-19	33.39	01/19/98	NP	0.00	1.31	32.08	0.00
MW-20	34.76	01/19/98	NP	0.00	9.07	25.69	0.00
MW-21	34.33	01/19/98	NM	0.00	NM	0.00	0.00
MW-22	35.65	01/19/98	NP	0.00	2.96	32.69	0.00
MW-23	36.06	01/19/98	NP	0.00	3.08	32.98	0.00
MW-24	35.15	01/19/98	4.02	0.01	4.03	31.13	0.75
MW-25	34.73	01/19/98	NP	0.00	9.84	24.89	0.00
MW-26	34.78	01/19/98	NP	0.00	10.36	24.42	0.00
MW-27	35.67	01/19/98	NP	0.00	3.81	31.86	0.00
MW-28	34.39	01/19/98	NP	0.00	4.01	30.38	0.00
MW-29	35.77	01/19/98	NP	0.00	13.13	22.64	0.00
MW-30	36.39	01/19/98	NP	0.00	3.85	32.54	0.00
MW-31	37.55	01/19/98	NP	0.00	4.79	32.76	0.00
MW-32	37.01	01/19/98	NP	0.00	3.45	33.56	0.00
MW-33	39.34	01/19/98	NP	0.00	19.40	19.94	0.00
MW-34	39.67	01/19/98	NP	0.00	19.92	19.75	0.00
MW-35	33.39	01/19/98	NP	0.00	2.88	30.51	0.00
MW-36	34.88	01/19/98	NP	0.00	14.13	20.75	0.00
MW-37	34.86	01/19/98	NP	0.00	14.61	20.25	0.00
MW-38	37.50	01/19/98	NP	0.00	4.76	32.74	0.00
MW-39	35.02	01/19/98	NM	0.00	NM	0.00	0.00
MW-40	33.65	01/19/98	NP	0.00	13.28	20.37	0.00
				GATX total SPH Recovered this Quarter:			**20.75**

Table 1 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	Total SPH Recovered this Quarter** (gallons)
			Tosco				
B-1	34.79	01/19/98	17.10	0.01	17.11	17.69	0.10
B-2	35.35	01/19/98	NP	0.00	16.87	18.48	0.00
B-3	36.79	01/19/98	NP	0.00	18.25	18.54	0.00
B-4	34.79	01/19/98	17.91	0.06	17.97	16.87	1.50
B-5	34.83	01/19/98	NP	0.00	16.54	18.29	0.00
B-6	35.41	01/19/98	NP	0.00	16.85	18.56	0.00
B-16	35.82	01/19/98	NP	0.00	17.16	18.66	0.00
B-17	35.59	01/19/98	NP	0.00	17.17	18.42	0.00
B-18	35.79	01/19/98	NP	0.00	19.03	16.76	0.00
B-22	35.83	01/19/98	18.55	1.35	19.90	17.08	4.00
B-25	37.60	01/19/98	NP	0.00	19.05	18.55	0.00
B-27	35.74	01/19/98	NP	0.00	17.94	17.80	6.00
B-35	33.58	01/19/98	NP	0.00	15.95	17.63	0.00
B-36	30.97	01/19/98	NP	0.00	14.43	16.54	0.00
B-37	35.24	01/19/98	NP	0.00	19.95	15.29	0.00
B-38	34.75	01/19/98	NM	0.00	NM	0.00	0.00
B-39	33.92	01/19/98	18.39	0.58	18.97	15.44	1.00
B-40	33.19	01/19/98	NP	0.00	17.53	15.66	0.00
B-41	34.85	01/19/98	NM	0.00	NM	0.00	0.00
DW-1	35.93	01/26/98	NP	0.00	19.56	16.37	0.00
DW-2	36.05	01/27/98	NP	0.00	19.65	16.40	0.00
IT-E	36.44	01/19/98	19.79	0.01	19.80	16.65	0.00
IT-W	35.99	01/19/98	NP	0.00	17.72	18.27	0.00
RES-N	38.58	01/19/98	NM	0.00	NM	0.00	0.00
RES-O	36.03	01/19/98	NP	0.00	17.60	18.43	0.00
U-2	35.02	01/19/98	NP	0.00	15.78	19.24	0.00
U-3	35.25	01/19/98	NP	0.00	13.04	22.21	0.00
U-4	34.46	01/19/98	15.97	0.03	16.00	18.49	2.00
U-5	34.20	01/19/98	NM	0.00	NM	0.00	0.00
U-5A	33.77	01/19/98	NP	0.00	6.51	27.26	0.00
					Tosco total SPH Recovered this Quarter:		**14.60**
					Complete total SPH Recovered this Quarter:		**42.36**

Notes:

SPH = Separate-phase hydrocarbon
NP = No product observed this gauging date
NA = Not available
NM = Not measured
* = Groundwater elevation (GWE) is corrected for the presence of SPH using:
GWE = toc - (DTW - (SPH thickness x Specific gravity of SPH)) Specific gravity used is 0.85
** = SPH recovered represents total product recovered for entire quarter.

Table 2
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron			
B-7	04/28/97	ND	ND	ND	ND
	10/22/97	ND	ND	ND	ND
	01/21/98	ND	ND	ND	ND
B-9	04/28/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	2.22
	10/22/97	ND	ND	ND	ND
Duplicate	10/22/97	ND	ND	ND	ND
	01/21/98	10.2	ND	ND	ND
B-10	04/28/97	60.8	4.72	2.82	6.54
	07/31/97	52.0	ND	ND	ND
	10/21/97	92.5	ND	ND	ND
	01/21/98	160	ND	ND	ND
B-11	04/28/97	243	5.90	24.3	11.0
	07/31/97	339	150	141	448
	10/21/97	175	15.5	15.5	34.3
	01/21/98	183	5.20	3.00	9.85
B-14	04/28/97	1,310	57.5	440	ND
	07/31/97	407	37.2	118	67.0
Duplicate	07/31/97	332	32.0	83.5	51.0
	10/22/97	1,650	91.4	520	109
Duplicate	10/22/97	1,820	103	576	137
	01/22/98	696	66.3	327	127
B-15	10/22/97	83.0	3.54	ND	5.96
B-24	10/23/97	658	ND	ND	ND
	11/04/97	420	ND	ND	ND
B-26	10/21/97	244	16.4	619	62.4
B-28	07/31/97	2.19	ND	12.5	2.39
	10/23/97	25.4	1.04	11.4	ND
	01/21/98	1.25	ND	ND	ND
B-29	10/22/97	ND	ND	ND	ND

Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron (continued)			
B-30	04/28/97	124	14.9	7.86	18.1
Duplicate	04/28/97	133	15.5	8.42	19.0
	07/31/97	30.0	4.00	1.22	7.38
	10/23/97	96.8	8.51	4.09	19.7
	01/22/98	9.84	1.59	ND	ND
Duplicate	01/22/98	9.37	1.57	ND	ND
B-31	10/23/97	8.10	3.68	7.15	21.3
B-32	10/22/97	ND	ND	ND	ND
CR-8	04/25/97	2.48	3.35	4.44	7.01
	07/31/97	ND	ND	ND	ND
	01/21/98	ND	ND	ND	ND
CR-9	07/31/97	ND	ND	ND	ND
	10/23/97	ND	ND	ND	ND
	01/22/98	ND	ND	ND	ND
CR-11	04/25/97	32.6	2.01	0.711	ND
	07/31/97	35.2	ND	ND	ND
	10/23/97	84.0	3.14	2.32	3.68
	01/21/98	97.4	2.00	2.98	4.30

Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX			
MW-1	10/28/97	ND	ND	ND	ND
MW-3	10/28/97	2.68	9.77	ND	15.6
MW-4	10/28/97	ND	ND	ND	ND
MW-6	10/28/97	5.63	3.49	ND	1.23
MW-8	04/24/97	124	3.76	53.6	89.8
	07/30/97	155	6.24	93.8	135
	10/30/97	358	26.6	299	845
	01/23/98	98.2	3.77	73.6	78.5
MW-9	10/27/97	ND	ND	ND	ND
MW-10	04/25/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
	10/27/97	8.35	ND	ND	ND
Duplicate	10/27/97	5.42	ND	ND	ND
	01/22/98	9.89	2.88	1.54	7.80
MW-11	04/24/97	6,860	3,360	2,840	11,300
	07/30/97	6,390	2,630	2,970	10,800
	01/22/98	7,300	4,420	2,620	11,800
MW-12	10/28/97	ND	ND	ND	ND
MW-13	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
	10/27/97	ND	ND	ND	ND
Duplicate	10/27/97	ND	ND	ND	ND
	01/22/98	ND	ND	ND	ND
Duplicate	01/22/98	ND	ND	ND	ND
MW-15	04/24/97	2.40	ND	ND	ND
	07/30/97	9.78	ND	ND	ND
	10/30/97	1.15	ND	1.66	6.32
	01/26/98	3.84	ND	ND	ND
MW-17	10/30/97	ND	ND	ND	ND

Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-18	10/30/97	ND	ND	ND	5.40
MW-20	10/28/97	ND	ND	ND	ND
MW-21	04/25/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
Duplicate	07/30/97	ND	ND	ND	ND
	10/29/97	ND	ND	ND	ND
	11/04/97	ND	ND	ND	ND
MW-22	04/24/97	2,400	4,060	4,810	14,000
	07/30/97	1,940	1,950	4,320	13,400
	10/29/97	2,090	2,820	4,880	14,900
	01/23/98	2,060	2,590	4,820	12,500
MW-23	07/30/97	22.3	ND	48.7	57.0
	01/26/98	4.25	31.7	32.4	64.9
MW-26	04/24/97	2.80	2.48	7.58	7.32
	01/26/98	3.60	2.89	7.13	9.19
MW-27	10/29/97	959	ND	ND	ND
MW-28	07/30/97	ND	ND	ND	ND
	01/26/98	ND	ND	ND	ND
MW-29	10/29/97	ND	ND	ND	ND
MW-30	10/29/97	ND	ND	ND	5.31
MW-31	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
	10/29/97	ND	ND	ND	ND
	01/26/98	ND	ND	ND	ND
MW-32	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
	10/29/97	ND	ND	ND	ND
	01/26/98	ND	ND	ND	ND

Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-33	04/24/97	ND	ND	ND	ND
Duplicate	04/24/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND
	10/31/97	ND	ND	ND	ND
	11/04/97	ND	ND	ND	ND
	01/23/98	ND	ND	ND	ND
MW-34	10/31/97	ND	ND	ND	ND
MW-36	04/25/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND
	10/31/97	ND	ND	ND	ND
	01/23/98	ND	ND	ND	ND
MW-37	04/24/97	1,680	16.2	28.4	68.6
	07/31/97	1,350	ND	29.2	42.6
	10/31/97	767	ND	ND	29.7
	01/23/98	ND	ND	ND	3.06
MW-40	04/24/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND
	01/23/98	ND	ND	ND	ND
W-4	10/20/97	ND	ND	ND	ND
W-17	10/20/97	ND	ND	ND	ND

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Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco			
B-2	10/27/97	5.94	3.91	ND	1.41
B-4	04/25/97	228	8.02	7.36	ND
B-6	10/27/97	273	ND	990	237
	01/27/98	297	18.7	501	113
B-16	10/27/97	58.4	ND	ND	ND
B-17	04/25/97	698	21.7	17.7	ND
	08/01/97	768	ND	ND	ND
	10/24/97	712	10.0	21.6	13.6
	11/04/97	624	17.5	17.7	ND
	01/27/98	435	9.42	ND	ND
Duplicate	01/27/98	413	9.27	ND	ND
B-18	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
	10/24/97	ND	ND	ND	ND
B-22	04/25/97	20.1	1.62	0.806	ND
B-35	04/25/97	6.50	8.58	0.790	6.98
	08/01/97	8.25	5.19	ND	ND
	10/24/97	13.5	7.60	20.8	32.1
B-36	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
	10/24/97	ND	ND	ND	ND
	01/27/98	ND	ND	ND	ND
B-37	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
	10/24/97	ND	ND	ND	ND
Duplicate	10/24/97	ND	ND	ND	ND
B-40	10/24/97	ND	ND	ND	ND
B-41	10/24/97	90.7	3.29	9.80	15.6
RES-N	11/10/97	29.1	2.18	2.06	2.59

Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
U-2	04/25/97	18.4	1.27	25.4	4.64
Duplicate	04/25/97	20.8	1.36	29.4	3.70
	08/01/97	6.66	ND	3.18	ND
	10/23/97	ND	ND	ND	ND
	01/27/98	4.55	ND	2.80	ND
U-3	04/25/97	4.77	0.523	ND	ND
	08/01/97	14.9	14.8	ND	5.42
Duplicate	08/01/97	14.8	15.0	ND	5.80
	10/24/97	ND	ND	ND	ND
	01/27/98	10.8	ND	ND	ND
U-5	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
	10/24/97	ND	ND	0.698	ND

Notes:

ppb = Parts per billion
ND = Not detected
NS = Not sampled
NS/F = Not sampled floating product present
NA = Not analyzed, not applicable
BTEX by EPA Method 8020

COPPOR00005171

Table 3
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron																	
B-7	04/28/97	6.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.7	ND	ND	30.2	ND
	10/22/97	2.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.58	ND	ND	2.18	0.576
	01/21/98	3.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.1	ND	ND	4.92	0.448
B-9	04/28/97	6.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.4	ND	ND	18.6	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.7	ND	ND	ND	ND
	10/22/97	3.90	ND	0.122	ND	ND	ND	ND	ND	ND	ND	ND	19.3	ND	ND	2.62	ND
Duplicate	10/22/97	6.16	ND	0.508	ND	ND	ND	ND	ND	ND	ND	ND	28.4	ND	ND	15.0	1.40
	01/21/98	2.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.19	ND	ND	1.92	0.375
B-10	04/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.0	ND	ND	20.6	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.2	ND	ND	ND	ND
	10/21/97	1.22	ND	0.167	ND	ND	ND	ND	ND	ND	ND	0.118	3.65	ND	ND	4.19	0.183
	01/21/98	7.64	ND	ND	0.299	ND	ND	ND	ND	0.594	ND	ND	33.7	ND	ND	51.0	3.41
B-11	04/28/97	0.686	ND	0.105	ND	ND	ND	ND	ND	ND	ND	ND	1.12	ND	1.64	0.852	0.134
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.93	ND	ND	ND	0.196
	10/21/97	1.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.83	ND	ND	1.56	ND
	01/21/98	1.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.231	2.54	ND	ND	2.23	0.498
B-14	04/28/97	0.865	ND	0.198	ND	ND	ND	ND	ND	ND	ND	0.542	1.47	ND	23.7	1.42	0.660
	07/31/97	ND	ND	ND	0.133	ND	ND	ND	ND	0.127	ND	0.660	2.00	ND	5.96	ND	0.802
Duplicate	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.622	1.82	ND	ND	ND	0.666
	10/22/97	1.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.398	3.48	ND	29.6	3.02	0.741
Duplicate	10/22/97	1.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.454	3.63	ND	36.4	2.76	0.750
	01/22/98	1.36	ND	0.258	0.295	0.124	0.103	ND	0.110	0.266	ND	0.752	4.06	ND	55.6	3.41	1.25
B-15	10/22/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	172	ND	ND	264	14.5
B-24	10/23/97	ND	ND	ND	1.27	0.203	0.336	0.0640	ND	1.04	ND	ND	32.1	0.0599	ND	39.1	14.6
	11/04/97	3.41	ND	1.06	0.686	0.110	0.0929	ND	0.0852	0.576	ND	1.91	9.71	ND	ND	15.1	2.39
B-26	10/21/97	2.74	ND	ND	1.36	1.02	2.98	1.03	ND	2.29	ND	3.49	9.30	ND	242	13.1	5.20

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Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron (continued)																	
B-28	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.32	ND	0.102
	01/21/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-29	10/22/97	0.0798	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.129	ND	ND	0.0631	0.0650
B-30	04/28/97	0.199	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.190	ND	0.345	0.210	0.143
Duplicate	04/28/97	0.246	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.124	0.262	ND	0.399	0.258	0.146
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.183	ND	ND	ND	ND	0.278
	10/23/97	0.0940	ND	ND	0.0513	0.0628	0.0855	0.0562	ND	0.0571	ND	0.0901	0.0990	0.0531	ND	0.158	0.230
	01/22/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	01/22/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-31	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.7	ND	18.3	28.7	ND
B-32	10/22/97	0.108	ND	ND	ND	ND	ND	ND	ND	0.142	ND	0.609	0.901	ND	ND	ND	0.574
CR-8	04/25/97	ND	ND	0.101	0.502	1.31	0.790	1.36	0.708	0.687	ND	0.809	ND	0.943	ND	0.129	1.24
	07/31/97	ND	ND	ND	0.268	0.640	0.472	0.794	0.216	0.348	ND	0.500	ND	0.510	ND	ND	0.798
	01/21/98	ND	0.124	ND	0.164	0.335	0.196	0.420	0.175	0.215	ND	0.264	ND	0.255	ND	ND	0.510
CR-9	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/22/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CR-11	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.183	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.30	ND	ND	ND	ND
	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.811	ND	ND	ND	ND
	01/21/98	0.312	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.943	ND	ND	0.502	ND

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Table 3 (continued)

Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
							GATX										
MW-1	10/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-3	10/28/97	ND	ND	0.161	ND	ND	ND	ND	ND	ND	ND	0.232	ND	ND	ND	0.848	0.239
MW-4	10/28/97	1.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.666	7.02	ND	ND	5.01	0.811
MW-6	10/28/97	2.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.92	ND	ND	8.69	0.598
MW-8	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.52	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/30/97	0.276	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.0	0.154	0.0973
	01/23/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.45	ND	ND
MW-9	10/27/97	ND	ND	ND	0.0711	0.0967	0.0777	0.0711	0.0678	0.0853	ND	0.0919	ND	0.0502	ND	0.0706	0.126
MW-10	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/27/97	0.0838	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	10/27/97	0.0767	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/22/98	0.169	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.101	ND	ND	0.192	ND
MW-11	04/24/97	0.125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.171	ND	475	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	294	ND	ND
	01/22/98	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.266	ND	630	0.200	ND
MW-12	10/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/27/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	10/27/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/22/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	01/22/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-15	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/30/97	0.0521	ND	ND	0.130	0.128	0.146	0.103	0.135	0.169	ND	0.294	ND	0.0948	0.0640	0.207	0.331
	01/26/98	0.132	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.102	ND	ND	ND	ND
MW-17	10/30/97	0.124	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0586	0.279	ND	ND	ND	0.0833
MW-18	10/30/97	2.82	53.3	0.146	ND	ND	ND	ND	ND	0.0533	ND	0.154	1.98	ND	ND	0.790	0.201
MW-20	10/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-21	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/29/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/04/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-22	04/24/97	0.182	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.366	ND	311	0.267	ND
	07/30/97	14.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.67	ND	220	ND	ND
	10/29/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.630	ND	397	0.556	ND
	01/23/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	369	0.311	ND
MW-23	07/30/97	10.4	ND	ND	0.106	ND	ND	ND	ND	0.203	ND	ND	0.908	ND	ND	ND	ND
	01/26/98	1.59	ND	0.244	ND	ND	ND	ND	ND	0.132	ND	ND	3.21	ND	7.35	2.74	0.325
MW-26	04/24/97	1.57	ND	0.153	ND	ND	ND	ND	ND	ND	ND	0.322	1.46	ND	3.96	0.876	0.149
	01/26/98	1.91	ND	0.188	ND	ND	ND	ND	ND	ND	ND	0.501	1.90	ND	3.86	2.70	0.312
MW-27	10/29/97	ND	ND	0.561	ND	ND	ND	ND	ND	ND	ND	0.704	ND	ND	ND	0.755	0.862
MW-28	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	ND	ND	ND	ND
	01/26/98	ND	ND	ND	ND	ND	ND	ND	ND	0.172	ND	ND	1.64	ND	ND	ND	0.495

COPPOR0005175

Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-29	10/29/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-30	10/29/97	0.116	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.318	ND	ND	ND	ND
MW-31	04/24/97	0.539	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	ND	ND	0.532	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.509	ND	ND	ND	ND
	10/29/97	1.24	ND	ND	ND	ND	ND	ND	ND	0.0777	ND	0.575	5.12	ND	ND	4.40	0.375
	01/26/98	0.651	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.01	ND	ND	1.54	ND
MW-32	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/29/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/26/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-33	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/04/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/23/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-34	10/31/97	0.0607	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-36	04/25/97	0.199	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/97	0.357	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0806
	01/23/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-37	04/24/97	ND	ND	0.386	0.552	0.574	0.364	0.361	0.416	0.567	ND	1.31	ND	0.330	ND	2.41	1.65
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.12	ND	ND	ND	ND
	10/31/97	1.01	ND	ND	0.0514	ND	ND	ND	ND	ND	ND	0.0976	1.40	ND	ND	0.218	0.175
	01/23/98	0.565	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.472	ND	ND	0.201	ND

COPPOR0005176

Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-40	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/23/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-4	10/20/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.190
W-17	10/20/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR00005177

Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
							Tosco										
B-2	10/27/97	4.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.4	ND	ND	24.3	ND
B-4	04/25/97	24.2	ND	20.1	ND	ND	ND	ND	ND	ND	ND	13.3	63.1	ND	ND	141	18.9
B-6	10/27/97	ND	ND	0.0887	0.0629	ND	ND	ND	ND	0.0675	ND	0.181	0.683	ND	90.0	0.409	0.256
	01/27/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	76.8	12.9	ND
B-16	10/27/97	1.86	ND	ND	0.0551	ND	ND	ND	ND	0.0691	ND	ND	5.97	ND	ND	6.94	0.332
B-17	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.0	ND	ND	20.9	ND
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.6	ND	ND	ND	ND
	10/24/97	8.63	ND	3.63	0.464	ND	ND	ND	ND	0.631	ND	4.40	37.1	ND	ND	56.3	5.46
	11/04/97	4.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.4	ND	ND	24.5	2.25
	01/27/98	2.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.16	ND	ND	8.09	ND
Duplicate	01/27/98	3.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.19	ND	ND	12.9	ND
B-18	04/25/97	0.308	ND	0.104	ND	ND	ND	ND	ND	ND	ND	ND	0.496	ND	ND	0.390	0.123
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	ND	ND	ND	0.119
	10/24/97	0.468	ND	ND	ND	0.0700	0.0936	0.0854	ND	0.0613	ND	ND	1.10	0.0676	ND	1.21	0.254
B-22	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.67	ND	ND	7.76	ND
B-35	04/25/97	5.33	ND	ND	0.571	0.118	0.150	ND	0.134	0.521	ND	ND	14.4	ND	ND	18.0	ND
	08/01/97	ND	ND	ND	1.58	ND	ND	ND	ND	ND	ND	9.62	20.6	ND	ND	ND	5.04
	10/24/97	91.4	ND	71.2	29.6	ND	ND	ND	ND	ND	ND	178	238	ND	ND	479	123
B-36	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/27/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR0005178

Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
B-37	04/25/97	0.189	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	10/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0743
B-40	10/24/97	5.39	ND	0.688	ND	ND	ND	ND	ND	ND	ND	ND	13.6	ND	ND	15.5	1.29
B-41	10/24/97	9.63	ND	1.17	ND	ND	ND	ND	ND	ND	ND	0.678	23.0	ND	ND	21.5	2.01
RES-N	11/10/97	2.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.21	ND	ND	5.47	0.446
U-2	04/25/97	0.364	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.179	0.873	ND	37.5	0.339	0.235
Duplicate	04/25/97	0.241	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.142	0.562	ND	ND	ND	0.153
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0739
	01/27/98	0.117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.117	ND	ND	0.113	ND
U-3	04/25/97	ND	ND	ND	ND	0.109	0.104	ND	ND	0.106	ND	0.134	ND	ND	ND	ND	0.144
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/24/97	0.0542	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0731	ND	ND	ND	ND
	01/27/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
U-5	04/25/97	1.06	ND	0.326	ND	ND	ND	ND	ND	ND	ND	ND	2.57	ND	ND	1.98	0.213
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.112	4.29	ND	ND	ND	0.149
	10/24/97	1.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.63	ND	ND	4.26	0.461

COPPOR0005179

Table 3 (continued)

Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco																	

Notes:

ppb = Parts per billion
ND = Not detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8270 SIM since 1st Quarter 1997
PAH by EPA Method 8310 before 1st Quarter 1997 and for 3rd Quarter 1997

COPPOR0000S180

Table 4A
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				Chevron					
B-7	04/28/97	9.71	93.7	2.76	14.8	6.50	ND	ND	ND
	10/22/97	26.1	77.4	0.200	1.50	1.00	0.390	ND	2.80
	01/21/98	24.4	91.1	ND	2.60	2.40	ND	ND	ND
B-9	04/28/97	24.7	100	ND	11.2	5.43	ND	ND	ND
	07/31/97	20.4	184	ND	21.4	31.0	ND	ND	ND
	10/22/97	28.4	219	0.300	26.9	13.5	1.03	1.00	2.60
Duplicate	10/22/97	29.9	205	0.500	28.1	12.5	0.819	ND	1.50
	01/21/98	27.7	99.3	ND	5.70	4.00	ND	ND	ND
B-10	04/28/97	34.2	208	ND	28.2	15.2	ND	ND	ND
	07/31/97	45.9	1,010	ND	202	85.8	ND	2.40	ND
	10/21/97	31.4	66.3	ND	2.73	1.45	ND	ND	ND
	01/21/98	117	920	2.20	340	118	ND	8.00	1.00
B-11	04/28/97	23.8	156	ND	19.5	9.11	ND	ND	ND
	07/31/97	23.1	334	ND	43.2	32.7	ND	ND	ND
	10/21/97	35.8	303	0.400	38.9	22.9	ND	1.02	ND
	01/21/98	37.1	423	ND	62.9	30.7	ND	1.50	ND
B-14	04/28/97	35.3	187	ND	20.9	20.7	ND	ND	ND
	07/31/97	25.8	101	ND	7.00	11.4	ND	ND	ND
Duplicate	07/31/97	26.2	117	ND	8.90	14.1	ND	ND	ND
	10/22/97	36.9	153	0.100	13.5	14.0	0.420	ND	ND
Duplicate	10/22/97	36.1	138	ND	9.30	14.4	ND	ND	ND
	01/22/98	41.4	241	ND	29.5	32.6	0.609	1.20	ND

COPPOR0000518

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				Chevron (continued)					
B-15	10/22/97	47.4	662	14.3	100	85.7	ND	2.00	2.00
B-24	10/23/97	1.20	213	ND	14.5	5.60	0.400	ND	ND
	11/04/97	34.8	110	1.42	11.7	6.27	ND	ND	ND
B-26	10/21/97	55.1	633	34.9	98.2	132	0.540	1.96	1.48
B-28	07/31/97	3.90	216	3.90	20.2	35.9	ND	1.10	ND
	10/23/97	8.20	205	ND	14.2	76.1	ND	1.20	ND
	01/21/98	7.90	278	9.90	38.0	32.0	0.250	ND	ND
B-29	10/22/97	10.6	981	7.20	82.5	53.1	ND	1.60	ND
B-30	04/28/97	29.0	153	73.2	17.2	41.6	ND	ND	ND
Duplicate	04/28/97	30.1	127	59.6	15.8	37.7	ND	ND	ND
	07/31/97	22.6	446	3.40	57.5	52.6	ND	1.20	ND
	10/23/97	34.5	981	6.70	128	71.6	ND	2.30	3.80
	01/22/98	8.60	176	16.6	7.20	13.5	0.810	ND	ND
Duplicate	01/22/98	9.00	164	15.7	7.20	12.1	0.650	ND	ND
B-31	10/23/97	5.00	198	3.10	8.90	38.0	1.80	ND	5.00
B-32	10/22/97	0.500	119	ND	6.60	3.50	1.03	ND	ND
CR-8	04/25/97	33.4	184	1.84	19.1	20.5	ND	ND	ND
	07/31/97	23.1	166	3.00	11.3	29.5	ND	ND	ND
	01/21/98	30.8	67.8	ND	3.20	6.30	0.290	ND	ND

COPPOR00005182

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Chevron (continued)				
CR-9	07/31/97	22.2	178	ND	10.7	10.6	ND	ND	ND
	10/23/97	1.80	31.1	ND	ND	2.60	ND	ND	ND
	01/22/98	1.00	23.7	ND	ND	ND	ND	ND	ND
CR-11	04/25/97	34.1	159	1.81	20.7	33.6	ND	ND	ND
	07/31/97	68.1	438	44.0	55.7	149	0.616	1.40	ND
	10/23/97	55.6	207	1.40	8.90	9.70	ND	2.10	ND
	01/21/98	52.6	141	ND	1.80	3.10	0.440	2.40	ND

COPPOR00005183

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identi-fication	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					GATX				
MW-1	10/28/97	4.09	111	0.190	9.71	7.78	ND	ND	ND
MW-3	10/28/97	18.9	42.6	0.530	2.06	5.11	ND	ND	ND
MW-4	10/28/97	30.8	19.0	ND	ND	3.70	ND	ND	ND
MW-6	10/28/97	41.0	40.2	0.220	ND	1.66	ND	ND	ND
MW-8	04/24/97	3.27	20.3	ND	3.20	1.11	ND	ND	ND
	07/30/97	7.80	11.1	ND	ND	ND	ND	ND	ND
	10/30/97	14.2	25.5	1.76	ND	1.12	ND	ND	ND
	01/23/98	4.00	16.4	ND	ND	ND	ND	ND	ND
MW-9	10/27/97	66.1	259	0.500	9.10	8.10	0.800	ND	7.10
MW-10	04/25/97	5.37	31.6	ND	1.24	ND	ND	1.22	ND
	07/30/97	5.80	74.5	ND	17.3	9.70	ND	ND	ND
	10/27/97	18.8	53.3	0.500	2.40	2.30	0.500	ND	ND
Duplicate	10/27/97	17.5	49.6	ND	2.10	1.80	0.580	ND	ND
	01/22/98	18.6	36.4	ND	ND	ND	ND	ND	ND
MW-11	04/24/97	45.2	128	ND	8.21	39.6	0.240	1.45	ND
	07/30/97	44.3	80.7	ND	4.00	38.1	0.250	ND	ND
	01/22/98	58.2	90.6	ND	3.20	38.7	0.290	1.40	ND
MW-12	10/28/97	3.73	24.6	ND	ND	3.88	ND	ND	ND

COPPOR00005184

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				GATX (continued)					
MW-13	04/24/97	48.1	814	ND	72.7	50.2	ND	ND	ND
	07/30/97	6.20	144	ND	10.9	16.7	ND	ND	ND
	10/27/97	1.60	50.0	ND	1.70	1.90	0.460	ND	ND
Duplicate	10/27/97	2.40	66.4	ND	3.90	2.80	0.590	ND	ND
	01/22/98	3.60	68.0	ND	3.30	4.10	0.560	ND	ND
Duplicate	01/22/98	3.30	71.0	ND	3.60	4.60	ND	ND	ND
MW-15	04/24/97	ND	92.9	ND	23.5	13.1	ND	ND	ND
	07/30/97	1.10	84.7	ND	2.30	4.50	ND	ND	ND
	10/30/97	2.03	184	0.730	14.6	20.4	ND	ND	ND
	01/26/98	1.10	50.7	ND	ND	ND	0.590	ND	ND
MW-17	10/30/97	1.91	43.8	0.410	1.92	24.1	ND	ND	ND
MW-18	10/30/97	6.49	58.6	0.660	1.11	7.26	ND	ND	ND
MW-20	10/28/97	9.98	278	0.170	2.25	2.56	ND	ND	ND
MW-21	04/25/97	2.26	185	ND	1.91	1.32	ND	1.29	ND
	07/30/97	2.70	190	ND	1.20	2.30	ND	ND	ND
Duplicate	07/30/97	2.60	215	ND	1.20	4.40	ND	ND	ND
	10/29/97	5.25	206	0.280	1.43	11.1	ND	ND	ND
	11/04/97	3.54	155	ND	1.05	ND	ND	ND	ND

COPPOR0005185

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					GATX (continued)				
MW-22	04/24/97	75.4	215	ND	2.24	7.85	ND	1.31	ND
	07/30/97	87.1	167	ND	2.60	36.1	ND	ND	ND
	10/29/97	109	172	ND	1.17	7.17	ND	ND	ND
	01/23/98	93.3	228	ND	1.50	7.00	ND	1.20	ND
MW-23	07/30/97	9.70	24.4	ND	2.20	49.2	ND	ND	ND
	01/26/98	3.60	14.8	ND	1.30	2.50	ND	ND	ND
MW-26	04/24/97	40.3	78.0	ND	1.08	1.30	ND	ND	ND
	01/26/98	47.7	78.8	ND	ND	1.00	ND	ND	ND
MW-27	10/29/97	20.8	61.0	ND	1.01	5.11	ND	ND	ND
MW-28	07/30/97	1.40	26.6	ND	1.20	42.0	ND	ND	ND
	01/26/98	ND	6.90	ND	ND	ND	ND	ND	ND
MW-29	10/29/97	8.03	45.7	ND	ND	1.27	ND	ND	ND
MW-30	10/29/97	12.5	17.3	ND	ND	1.61	ND	ND	ND
MW-31	04/24/97	5.98	17.3	ND	1.13	ND	ND	ND	ND
	07/30/97	12.3	18.2	ND	1.20	12.6	ND	ND	ND
	10/29/97	8.37	12.5	ND	ND	1.05	ND	ND	ND
	01/26/98	7.10	19.5	ND	1.40	ND	2.90	ND	ND

COPPOR00005186

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				GATX (continued)					
MW-32	04/24/97	ND	6.93	ND	2.54	ND	ND	ND	ND
	07/30/97	ND	13.6	ND	1.60	8.90	ND	ND	ND
	10/29/97	ND	15.5	ND	1.10	ND	ND	ND	ND
	01/26/98	ND	4.70	ND	4.00	ND	ND	ND	ND
MW-33	04/24/97	28.0	230	ND	2.25	ND	ND	ND	ND
Duplicate	04/24/97	27.4	227	ND	2.08	ND	ND	ND	ND
	07/31/97	47.2	1,320	ND	2.60	5.40	ND	ND	ND
	10/31/97	8.05	74.2	ND	1.19	ND	ND	ND	ND
	11/04/97	1.84	34.0	ND	ND	1.88	ND	ND	ND
	01/23/98	4.80	47.5	ND	ND	ND	ND	ND	ND
MW-34	10/31/97	14.5	71.3	0.360	2.90	1.81	ND	ND	ND
MW-36	04/25/97	10.1	51.8	ND	3.10	2.36	ND	ND	ND
	07/31/97	15.6	59.0	ND	2.80	7.80	ND	ND	ND
	10/31/97	23.6	44.9	ND	1.51	1.28	ND	ND	ND
	01/23/98	5.20	25.9	ND	ND	ND	ND	ND	ND
MW-37	04/24/97	22.6	84.3	3.21	8.21	62.4	ND	ND	ND
	07/31/97	18.3	45.3	ND	1.40	3.20	ND	ND	ND
	10/31/97	22.2	42.9	ND	1.27	1.19	ND	ND	ND
	01/23/98	26.5	39.2	ND	ND	ND	ND	ND	ND

COPPOR0005187

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identi-fication	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				GATX (continued)					
MW-40	04/24/97	13.3	131	ND	8.67	10.4	0.350	ND	ND
	07/31/97	29.3	42.4	ND	66.5	72.5	0.760	ND	ND
	01/23/98	8.10	53.0	ND	2.20	3.30	ND	ND	ND

COPPOR0005188

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Tosco				
B-2	10/27/97	49.0	87.6	ND	1.32	1.40	0.250	ND	ND
B-4	04/25/97	66.5	962	ND	215	78.5	ND	ND	ND
B-6	10/27/97	33.9	254	0.200	25.2	40.7	0.420	1.07	ND
	01/27/98	32.6	263	ND	ND	39.6	0.520	1.30	ND
B-16	10/27/97	48.5	362	3.21	41.6	30.3	0.460	1.41	2.37
B-17	04/25/97	52.6	284	ND	45.2	44.0	ND	1.17	ND
	08/01/97	52.7	255	ND	17.7	141	ND	1.30	ND
	10/24/97	51.5	219	ND	19.6	41.9	0.220	1.25	5.59
	11/04/97	50.0	183	ND	18.3	24.4	ND	ND	ND
	01/27/98	51.5	171	ND	14.0	14.2	ND	ND	ND
Duplicate	01/27/98	52.4	171	ND	14.2	13.6	ND	ND	ND
B-18	04/25/97	17.1	179	ND	22.6	8.47	0.200	ND	ND
	08/01/97	25.6	1,400	ND	148	46.5	0.830	3.20	ND
	10/24/97	22.0	273	0.200	31.7	16.2	0.400	1.39	1.10
B-22	04/25/97	25.7	98.6	ND	2.99	2.40	ND	ND	ND
B-35	04/25/97	41.5	86.1	ND	2.26	5.08	ND	ND	ND
	08/01/97	36.0	82.5	ND	4.00	9.60	ND	ND	ND
	10/24/97	52.1	271	0.300	38.1	63.0	520	1.11	520

COPPOR00005189

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				Tosco (continued)					
B-36	04/25/97	3.43	66.7	ND	4.85	1.37	ND	ND	ND
	08/01/97	7.50	57.4	ND	10.5	2.10	ND	ND	ND
	10/24/97	8.53	12.2	ND	8.70	3.20	280	ND	ND
	01/27/98	6.10	114	ND	12.1	4.90	0.520	ND	ND
B-37	04/25/97	34.8	76.8	ND	4.89	1.96	ND	ND	ND
	08/01/97	66.9	198	ND	17.6	7.50	ND	1.00	ND
	10/24/97	69.4	183	ND	19.5	9.30	660	ND	ND
Duplicate	10/24/97	69.4	183	ND	19.5	9.30	660	ND	ND
B-40	10/24/97	24.6	238	2,000	27.4	11.6	640	ND	1.09
B-41	10/24/97	38.2	313	11.5	44.8	31.4	880	1.56	1.56
U-2	04/25/97	26.1	32.8	ND	1.34	1.74	ND	ND	ND
Duplicate	04/25/97	29.3	37.3	ND	1.71	2.31	ND	ND	ND
	08/01/97	10.2	40.7	ND	1.70	32.9	ND	ND	ND
	10/23/97	14.7	45.7	0.100	2.78	5.01	ND	ND	ND
	01/27/98	11.3	30.2	ND	1.40	ND	ND	ND	ND
U-3	04/25/97	58.7	367	5.22	208	388	0.370	1.98	ND
	08/01/97	36.5	331	1.80	98.6	127	0.290	1.70	ND
Duplicate	08/01/97	31.2	980	1.80	99.4	58.1	0.210	2.30	ND
	10/24/97	43.2	115	ND	4.29	12.9	ND	1.10	ND
	01/27/98	23.1	79.7	ND	4.40	7.30	0.840	ND	ND

COPPOR0000519O

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Tosco				
U-5	04/25/97	6.76	62.9	ND	2.34	2.89	ND	ND	ND
	08/01/97	8.90	78.3	ND	9.90	49.9	ND	ND	ND
	10/24/97	17.6	84.7	1.57	7.56	5.56	420	ND	ND

Notes:

ppb = Parts per billion
ND = Not detected
NS = Not sampled
NS/F = Not sampled floating product present
Total Metals by EPA Method 6000/7000 Series Method

COPPOR0005191

Table 4B
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Chevron				
B-7	04/28/97	6.12	26.2	ND	ND	ND	ND	ND	ND
B-9	10/22/97	19.5	64.8	ND	ND	ND	ND	ND	ND
Duplicate	10/22/97	20.8	66.5	ND	1.00	ND	ND	ND	ND
B-14	07/31/97	26.5	65.2	ND	ND	1.10	ND	ND	ND
Duplicate	07/31/97	27.6	65.6	ND	ND	ND	ND	ND	ND
	10/22/97	26.9	66.5	ND	ND	1.30	ND	ND	ND
Duplicate	10/22/97	27.2	70.3	ND	ND	1.70	ND	ND	ND
	01/22/98	34.0	68.0	ND	ND	1.70	ND	ND	ND
B-24	10/23/97	37.5	51.5	ND	ND	ND	ND	ND	ND
	11/04/97	36.9	49.1	ND	ND	ND	ND	ND	ND
B-30	04/28/97	19.5	50.6	ND	ND	ND	ND	ND	ND
Duplicate	04/28/97	19.0	52.1	ND	ND	ND	ND	ND	ND
	07/31/97	15.3	61.6	ND	ND	ND	ND	ND	ND
	10/23/97	15.5	72.3	ND	ND	ND	ND	ND	ND
	01/22/98	7.30	66.4	ND	ND	ND	0.460	ND	ND
Duplicate	01/22/98	7.10	69.1	ND	ND	ND	0.330	ND	ND
CR-8	04/25/97	17.8	39.4	ND	ND	ND	ND	ND	ND
CR-9	07/31/97	1.00	33.9	ND	ND	ND	ND	ND	ND
	01/22/98	ND	24.0	ND	ND	ND	ND	ND	ND

COPPOR0005192

Table 4B (continued)
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identi-fication	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					GATX				
MW-10	04/25/97	4.58	29.3	ND	ND	ND	ND	ND	ND
	10/27/97	16.7	44.1	ND	1.20	161	ND	ND	ND
Duplicate	10/27/97	14.6	49.9	ND	1.00	4.90	ND	ND	ND
MW-13	07/30/97	ND	32.2	ND	ND	ND	ND	ND	ND
	10/27/97	1.20	35.2	ND	ND	1.80	ND	ND	ND
Duplicate	10/27/97	ND	38.3	3.00	ND	3.20	ND	ND	ND
	01/22/98	ND	30.9	ND	ND	ND	ND	ND	ND
Duplicate	01/22/98	ND	30.7	ND	ND	ND	ND	ND	ND
MW-15	10/30/97	1.18	79.2	1.79	ND	ND	ND	ND	1.55
MW-20	10/28/97	4.60	191	ND	ND	ND	ND	ND	ND
MW-21	07/30/97	3.00	220	ND	ND	ND	ND	ND	ND
Duplicate	07/30/97	2.60	198	ND	ND	ND	ND	ND	ND
	10/29/97	3.97	163	ND	ND	ND	ND	ND	1.62
	11/04/97	3.32	153	ND	ND	ND	ND	ND	ND
MW-23	07/30/97	10.0	18.7	ND	1.00	1.20	ND	ND	ND
MW-32	04/24/97	ND	4.55	ND	3.08	ND	ND	ND	ND
	10/29/97	0.260	10.5	ND	1.46	ND	ND	ND	ND

COPPOR0005193

Table 4B (continued)
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				GATX (continued)					
MW-33	04/24/97	4.52	17.6	ND	ND	ND	ND	ND	ND
Duplicate	04/24/97	4.49	18.2	ND	ND	ND	ND	ND	ND
	10/31/97	2.91	30.3	0.110	ND	ND	ND	ND	ND
	11/04/97	1.37	32.8	ND	ND	ND	ND	ND	ND
MW-37	07/31/97	21.0	45.3	ND	ND	ND	ND	ND	ND
	10/31/97	23.4	42.3	ND	ND	ND	ND	ND	ND

COPPOR00005194

Table 4B (continued)
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Tosco				
B-2	10/27/97	46.0	74.0	ND	ND	2.50	ND	ND	ND
B-6	10/27/97	24.5	71.5	ND	ND	5.70	ND	ND	ND
B-17	04/25/97	48.4	95.8	ND	1.31	2.74	ND	ND	ND
	08/01/97	44.1	96.2	ND	1.00	3.40	ND	ND	ND
	10/24/97	49.2	0.102	ND	1.00	3.30	1.13	ND	ND
	11/04/97	51.1	95.7	ND	ND	2.42	ND	ND	ND
	01/27/98	48.9	83.4	ND	ND	1.60	ND	ND	ND
Duplicate	01/27/98	51.0	84.9	ND	ND	1.70	ND	ND	ND
B-37	08/01/97	31.7	60.4	ND	ND	5.90	ND	ND	ND
	10/24/97	45.7	50.3	ND	ND	ND	1.07	ND	ND
Duplicate	10/24/97	47.4	55.4	ND	ND	ND	441	ND	ND
U-2	04/25/97	21.0	33.9	ND	1.73	1.91	ND	ND	ND
Duplicate	04/25/97	15.5	22.8	ND	1.30	ND	ND	ND	ND
U-3	08/01/97	23.9	89.5	ND	1.00	1.10	ND	ND	ND
Duplicate	08/01/97	25.8	90.8	ND	1.00	1.10	0.330	ND	ND
	01/27/98	21.9	62.9	ND	ND	ND	0.300	ND	ND
U-5	04/25/97	4.26	45.2	ND	1.15	ND	ND	1.07	ND

COPPOR00005195

Table 4B (continued)
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
Tosco									

Notes:

ppb = Parts per billion
ND = Not detected
NS = Not sampled
NS/F = Not sampled floating product present
Dissolved Metals by EPA Method 6000/7000 Series Methods

COPPOR00005196

Table 5
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron				
B-7	33.96	03/24/95	18.07	0.00	18.07	15.89	NA
		04/24/95	18.61	0.00	18.61	15.35	NA
		05/22/95	18.56	0.00	18.56	15.40	NA
		06/19/95	18.77	0.00	18.77	15.19	NA
		07/24/95	19.74	0.00	19.74	14.22	NA
		08/28/95	20.03	0.00	20.03	13.93	NA
		09/25/95	19.79	0.01	19.80	14.17	NA
		10/23/95	19.56	0.01	19.57	14.40	NA
		11/27/95	18.61	0.00	18.61	15.35	NA
		12/29/95	17.74	0.00	17.74	16.22	NA
		01/22/96	15.82	0.00	15.82	18.14	NA
		02/26/96	14.09	0.04	14.13	19.86	NA
		03/25/96	17.38	0.01	17.39	16.58	NA
		04/22/96	17.07	0.01	17.08	16.89	NA
		05/28/96	16.46	0.00	16.46	17.50	NA
		06/24/96	17.96	0.00	17.96	16.00	NA
		07/22/96	18.79	0.00	18.79	15.17	NA
		08/26/96	19.18	0.00	19.18	14.78	NA
		09/23/96	19.22	0.00	19.22	14.74	NA
		10/28/96	19.10	0.00	19.10	14.86	NA
		11/25/96	17.95	0.00	17.95	16.01	NA
		01/29/97	NP	0.00	17.24	16.72	0.00
		04/21/97	NP	0.00	17.45	16.51	0.00
		07/28/97	18.60	0.10	18.70	15.35	1.00
		10/15/97	NP	0.00	18.96	15.00	0.00
		01/19/98	NP	0.00	17.85	16.11	0.00
						SPH Recovered to Date:	**1.00**
B-8	35.90	01/29/97	NP	0.00	15.99	19.91	0.00
		04/21/97	NP	0.00	16.67	19.23	0.00
		07/28/97	NP	0.00	17.30	18.60	0.00
		10/15/97	NP	0.00	17.73	18.17	0.00
		01/19/98	NP	0.00	16.67	19.23	0.00
						SPH Recovered to Date:	**0.00**
B-9	33.95	03/24/95	NA	0.00	16.01	17.94	NA
		04/24/95	NA	0.00	16.42	17.53	NA
		05/22/95	NA	0.00	16.54	17.41	NA
		06/19/95	NA	0.00	16.59	17.36	NA
		07/24/95	NA	0.00	17.45	16.50	NA
		08/28/95	NA	0.00	17.85	16.10	NA
		09/25/95	NA	0.00	17.85	16.10	NA
		10/23/95	NA	0.00	17.45	16.50	NA
		11/27/95	NA	0.00	16.51	17.44	NA
		12/29/95	NA	0.00	15.86	18.09	NA
		01/22/96	NA	0.00	15.31	18.64	NA
		01/29/96	NP	0.00	15.31	18.64	0.00
		02/26/96	NA	0.00	13.20	20.75	NA
		03/25/96	NA	0.00	15.49	18.46	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-9	33.95	04/22/96	NA	0.00	15.20	18.75	NA
		05/28/96	NA	0.00	15.47	18.48	NA
		06/24/96	NA	0.00	16.09	17.86	NA
		07/22/96	NA	0.00	16.61	17.34	NA
		08/26/96	NA	0.00	17.26	16.69	NA
		09/23/96	NA	0.00	17.14	16.81	NA
		10/28/96	NA	0.00	17.21	16.74	NA
		11/25/96	NA	0.00	16.35	17.60	NA
		01/29/97	NP	0.00	15.31	18.64	0.00
		04/21/97	NP	0.00	15.82	18.13	0.00
		07/28/97	NP	0.00	16.60	17.35	0.00
		10/15/97	NP	0.00	17.21	16.74	0.00
		01/19/98	NP	0.00	16.11	17.84	0.00
						SPH Recovered to Date:	**0.00**
B-10	34.74	03/24/95	15.08	0.00	15.08	19.66	NA
		04/24/95	15.41	0.00	15.41	19.33	NA
		05/22/95	15.68	0.00	15.68	19.06	NA
		06/19/95	15.96	0.00	15.96	18.78	NA
		07/24/95	16.26	0.00	16.26	18.48	NA
		08/28/95	16.26	0.32	16.58	18.43	NA
		09/25/95	16.84	0.00	16.84	17.90	NA
		10/23/95	16.70	0.00	16.70	18.04	NA
		11/27/95	15.99	0.00	15.99	18.75	NA
		12/29/95	15.01	0.00	15.01	19.73	NA
		01/22/96	14.67	0.00	14.67	20.07	NA
		02/26/96	12.18	0.00	12.18	22.56	NA
		03/25/96	13.82	0.00	13.82	20.92	NA
		04/22/96	14.66	0.00	14.66	20.08	NA
		05/28/96	14.59	0.00	14.59	20.15	NA
		06/24/96	15.03	0.00	15.03	19.71	NA
		07/22/96	15.64	0.00	15.64	19.10	NA
		08/26/96	16.12	0.00	16.12	18.62	NA
		09/23/96	16.21	0.00	16.21	18.53	NA
		10/28/96	16.18	0.00	16.18	18.56	NA
		11/25/96	15.35	0.00	15.35	19.39	NA
		01/29/97	NP	0.00	13.80	20.94	0.00
		04/21/97	NP	0.00	14.85	19.89	0.00
		07/28/97	NP	0.00	15.43	19.31	0.00
		10/15/97	NP	0.00	16.12	18.62	0.00
		01/19/98	NP	0.00	15.07	19.67	0.00
						SPH Recovered to Date:	**0.00**
B-11	34.95	03/24/95	NA	0.00	15.22	19.73	NA
		07/24/95	NA	0.00	16.08	18.87	NA
		10/23/95	NA	0.00	16.64	18.31	NA
		01/22/96	NA	0.00	15.73	19.22	NA
		04/22/96	NA	0.00	14.44	20.51	NA
		05/28/96	NA	0.00	14.46	20.49	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-11	34.95	07/22/96	NA	0.00	15.40	19.55	NA
		08/26/96	NA	0.00	15.91	19.04	NA
		09/23/96	NA	0.00	16.08	18.87	NA
		10/28/96	NA	0.00	16.14	18.81	NA
		11/25/96	NA	0.00	15.53	19.42	NA
		01/29/97	NP	0.00	15.65	19.30	0.00
		04/21/97	NP	0.00	14.67	20.28	0.00
		07/28/97	NP	0.00	15.33	19.62	0.00
		10/15/97	NP	0.00	16.05	18.90	0.00
		01/19/98	NP	0.00	15.15	19.80	0.00
						SPH Recovered to Date:	**0.00**
B-12	35.11	08/26/96	NA	0.00	16.37	18.74	NA
		09/23/96	NA	0.00	16.53	18.58	NA
		11/25/96	NA	0.00	16.07	19.04	NA
		01/29/97	NP	0.00	14.18	20.93	0.00
		04/21/97	NP	0.00	15.20	19.91	0.00
		10/15/97	NP	0.00	16.53	18.58	0.00
		01/19/98	NP	0.00	15.70	19.41	0.00
						SPH Recovered to Date:	**0.00**
B-13	34.76	08/26/96	NA	0.00	16.36	18.40	NA
		09/23/96	NA	0.00	16.51	18.25	NA
		10/28/96	NA	0.00	16.59	18.17	NA
		11/25/96	NA	0.00	16.14	18.62	NA
		01/29/97	NP	0.00	14.35	20.41	0.00
		04/21/97	NP	0.00	15.23	19.53	0.00
		07/28/97	NP	0.00	15.85	18.91	0.00
		10/15/97	NP	0.00	16.50	18.26	0.00
		01/19/98	NP	0.00	15.80	18.96	0.00
						SPH Recovered to Date:	**0.00**
B-14	36.59	04/24/95	NA	0.00	17.59	19.00	NA
		07/24/95	NA	0.00	18.35	18.24	NA
		10/23/95	NA	0.00	18.84	17.75	NA
		01/22/96	NA	0.00	17.21	19.38	NA
		04/22/96	NA	0.00	15.80	20.79	NA
		05/28/96	NA	0.00	16.82	19.77	NA
		07/22/96	NA	0.00	17.70	18.89	NA
		08/26/96	NA	0.00	18.15	18.44	NA
		09/23/96	NA	0.00	18.31	18.28	NA
		10/28/96	NA	0.00	18.40	18.19	NA
		11/25/96	NA	0.00	17.94	18.65	NA
		01/29/97	NP	0.00	16.05	20.54	0.00
		04/21/97	NP	0.00	17.03	19.56	0.00
		07/28/97	NP	0.00	17.63	18.96	0.00
		10/15/97	NP	0.00	18.31	18.28	0.00
		01/19/98	NP	0.00	17.61	18.98	0.00
						SPH Recovered to Date:	**0.00**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-15	35.55	08/26/96	NA	0.00	17.32	18.23	NA
		09/23/96	NA	0.00	17.47	18.08	NA
		10/28/96	NA	0.00	17.56	17.99	NA
		11/25/96	NA	0.00	17.08	18.47	NA
		01/29/97	NP	0.00	15.26	20.29	0.00
		04/21/97	NP	0.00	16.20	19.35	0.00
		07/28/97	NP	0.00	16.77	18.78	0.00
		10/15/97	NP	0.00	17.44	18.11	0.00
		01/19/98	NP	0.00	16.72	18.83	0.00
						SPH Recovered to Date:	**0.00**
B-19	34.71	03/24/95	NA	0.00	16.01	18.70	NA
		04/24/95	NA	0.00	16.21	18.50	NA
		05/22/95	NA	0.00	16.45	18.26	NA
		06/19/95	NA	0.00	16.70	18.01	NA
		07/24/95	NA	0.00	17.09	17.62	NA
		08/28/95	NA	0.00	17.37	17.34	NA
		09/25/95	NA	0.00	17.56	17.15	NA
		10/23/95	NA	0.00	17.45	17.26	NA
		11/27/95	NA	0.00	16.86	17.85	NA
		12/29/95	NA	0.00	15.75	18.96	NA
		01/22/96	NA	0.00	15.54	19.17	NA
		02/26/96	NA	0.00	12.95	21.76	NA
		03/25/96	NA	0.00	14.80	19.91	NA
		04/22/96	NA	0.00	15.39	19.32	NA
		05/28/96	NA	0.00	15.31	19.40	NA
		06/24/96	NA	0.00	15.79	18.92	NA
		07/22/96	NA	0.00	16.35	18.36	NA
		08/26/96	NA	0.00	16.84	17.87	NA
		09/23/96	NA	0.00	16.97	17.74	NA
		10/28/96	NA	0.00	17.03	17.68	NA
		11/25/96	NA	0.00	16.43	18.28	NA
		01/29/97	NP	0.00	14.81	19.90	0.00
		04/21/97	NP	0.00	15.67	19.04	0.00
		07/28/97	NP	0.00	16.18	18.53	0.00
		10/15/97	NP	0.00	16.90	17.81	0.00
		01/19/98	NP	0.00	16.05	18.66	0.00
						SPH Recovered to Date:	**0.00**
B-20	33.40	03/24/95	16.55	0.00	16.55	16.85	NA
		04/24/95	16.93	0.00	16.93	16.47	NA
		05/22/95	16.96	0.00	16.96	16.44	NA
		06/19/95	17.20	0.00	17.20	16.20	NA
		07/24/95	17.95	0.19	18.14	15.42	NA
		08/28/95	18.30	0.37	18.67	15.04	NA
		09/25/95	18.26	0.01	18.27	15.14	NA
		10/23/95	18.04	0.00	18.04	15.36	NA
		11/27/95	17.11	0.01	17.12	16.29	NA
		12/29/95	16.17	0.01	16.18	17.23	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-20	33.40	01/22/96	15.20	0.00	15.20	18.20	NA
		02/26/96	13.55	0.01	13.56	19.85	NA
		03/25/96	15.99	0.00	15.99	17.41	NA
		04/22/96	15.88	0.00	15.88	17.52	NA
		05/28/96	15.59	0.00	15.59	17.81	NA
		06/24/96	16.29	0.00	16.29	17.11	NA
		07/22/96	17.13	0.00	17.13	16.27	NA
		08/26/96	17.62	0.00	17.62	15.78	NA
		09/23/96	17.59	1.05	18.64	15.65	NA
		10/28/96	17.50	0.43	17.93	15.84	NA
		11/25/96	16.57	0.05	16.62	16.82	NA
		01/29/97	NP	0.00	15.93	17.47	0.00
		04/21/97	NP	0.00	16.19	17.21	0.00
		07/28/97	16.89	0.02	16.91	16.51	1.00
		10/15/97	17.32	0.07	17.39	16.07	0.80
		01/19/98	NP	0.00	16.31	17.09	0.00
						SPH Recovered to Date:	**1.80**
B-21	34.79	03/24/95	NA	0.00	16.23	18.56	NA
		04/24/95	NA	0.00	16.42	18.37	NA
		05/22/95	NA	0.00	16.63	18.16	NA
		06/19/95	NA	0.00	16.83	17.96	NA
		07/24/95	NA	0.00	17.18	17.61	NA
		08/28/95	NA	0.00	17.43	17.36	NA
		09/25/95	NA	0.00	17.58	17.21	NA
		10/23/95	NA	0.00	17.53	17.26	NA
		11/27/95	NA	0.00	17.09	17.70	NA
		12/29/95	NA	0.00	16.07	18.72	NA
		01/22/96	NA	0.00	15.91	18.88	NA
		02/26/96	NA	0.00	13.30	21.49	NA
		03/25/96	NA	0.00	15.08	19.71	NA
		04/22/96	NA	0.00	15.77	19.02	NA
		05/28/96	NA	0.00	15.61	19.18	NA
		06/24/96	NA	0.00	16.01	18.78	NA
		07/22/96	NA	0.00	16.53	18.26	NA
		08/26/96	NA	0.00	16.95	17.84	NA
		09/23/96	NA	0.00	17.11	17.68	NA
		10/28/96	NA	0.00	17.20	17.59	NA
		11/25/96	NA	0.00	16.71	18.08	NA
		01/29/97	NP	0.00	15.23	19.56	0.00
		04/21/97	NP	0.00	15.99	18.80	0.00
		07/28/97	NP	0.00	16.45	18.34	0.00
		10/15/97	NP	0.00	17.10	17.69	0.00
		01/19/98	NP	0.00	16.33	18.46	0.00
						SPH Recovered to Date:	**0.00**
B-24	34.70	03/24/95	15.87	0.01	15.88	18.83	NA
		04/24/95	15.96	0.03	15.99	18.74	NA
		05/22/95	16.17	0.01	16.18	18.53	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-24	34.70	06/19/95	16.39	0.02	16.41	18.31	NA
		07/24/95	16.56	0.04	16.60	18.13	0.01
		08/28/95	16.81	0.00	16.81	17.89	NA
		09/25/95	17.02	0.00	17.02	17.68	0.03
		10/23/95	17.05	0.00	17.05	17.65	NA
		11/27/95	16.75	0.00	16.75	17.95	NA
		12/29/95	15.90	0.00	15.90	18.80	NA
		01/22/96	15.71	0.00	15.71	18.99	NA
		02/26/96	13.98	0.00	13.98	20.72	NA
		03/25/96	14.62	0.00	14.62	20.08	NA
		04/22/96	15.28	0.00	15.28	19.42	NA
		05/28/96	15.25	0.00	15.25	19.45	NA
		06/24/96	15.57	0.00	15.57	19.13	NA
		07/22/96	15.95	0.00	15.95	18.75	NA
		08/26/96	16.35	0.00	16.35	18.35	NA
		09/23/96	16.51	0.01	16.52	18.19	NA
		10/28/96	16.54	0.00	16.54	18.16	NA
		01/29/97	NM	0.00	NM	0.00	0.00
		04/21/97	NP	0.00	15.29	19.41	0.00
		07/28/97	NP	0.00	16.00	18.70	0.00
		10/15/97	NP	0.00	16.66	18.04	0.00
		01/19/98	NM	0.00	NM	0.00	0.00
						SPH Recovered to Date:	**0.04**
B-26	37.04	03/12/95	NP	0.00	16.56	20.48	0.00
	35.30	04/24/95	NA	0.00	15.81	19.49	NA
		07/24/95	NA	0.00	16.69	18.61	NA
		10/23/95	NA	0.00	17.16	18.14	NA
		01/22/96	NA	0.00	15.23	20.07	NA
		04/22/96	NA	0.00	14.85	20.45	NA
		05/28/96	NA	0.00	14.95	20.35	NA
		07/22/96	NA	0.00	16.03	19.27	NA
		08/26/96	16.52	0.00	16.52	18.78	NA
		09/23/96	16.63	0.00	16.63	18.67	NA
		10/28/96	16.68	0.00	16.68	18.62	NA
		11/25/96	15.94	0.00	15.94	19.36	NA
		01/29/97	NP	0.00	14.36	20.94	NA
		04/21/97	15.28	0.01	15.29	20.02	0.40
		07/24/97	NP	0.00	15.80	19.50	0.00
		10/15/97	NP	0.00	16.58	18.72	0.00
		01/19/98	NP	0.00	15.64	19.66	0.00
						SPH Recovered to Date:	**0.40**
B-28	35.25	04/24/95	NA	0.00	15.02	20.23	NA
		07/24/95	NA	0.00	16.14	19.11	NA
		10/23/95	NA	0.00	16.40	18.85	NA
		01/22/96	NA	0.00	15.25	20.00	NA
		04/22/96	NA	0.00	14.62	20.63	NA
		05/28/96	NA	0.00	14.68	20.57	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-28	35.25	07/22/96	NA	0.00	15.51	19.74	NA
		10/28/96	NA	0.00	15.98	19.27	NA
		01/29/97	NP	0.00	14.36	20.89	NA
		04/21/97	14.99	0.01	15.00	20.26	0.30
		07/24/97	NP	0.00	15.25	20.00	0.00
		10/15/97	NP	0.00	16.11	19.14	0.00
		01/19/98	NP	0.00	15.47	19.78	0.00
						SPH Recovered to Date:	**0.30**
B-29	37.70	01/29/97	NL	0.00	NL	0.00	0.00
		04/21/97	NP	0.00	14.61	23.09	0.00
		07/28/97	NP	0.00	15.40	22.30	0.00
		10/15/97	NP	0.00	16.10	21.60	0.00
		01/19/98	NP	0.00	15.54	22.16	0.00
						SPH Recovered to Date:	**0.00**
B-30	35.35	04/24/95	NA	0.00	15.60	19.75	NA
		06/19/95	NP	0.00	15.60	19.75	0.00
		07/24/95	NA	0.00	15.96	19.39	NA
		10/23/95	NA	0.00	16.51	18.84	NA
		01/22/96	NA	0.00	14.51	20.84	NA
		04/22/96	NA	0.00	14.12	21.23	NA
		05/28/96	NA	0.00	14.68	20.67	NA
		07/22/96	NA	0.00	15.22	20.13	NA
		10/28/96	NA	0.00	15.94	19.41	NA
		01/29/97	NP	0.00	13.48	21.87	0.00
		04/21/97	NP	0.00	14.50	20.85	0.00
		07/28/97	NP	0.00	15.07	20.28	0.00
		10/15/97	NP	0.00	15.96	19.39	0.00
		01/19/98	NP	0.00	15.02	20.33	0.00
						SPH Recovered to Date:	**0.00**
B-31	33.86	03/24/95	NA	0.00	14.49	19.37	NA
		04/24/95	NA	0.00	15.30	18.56	NA
		05/22/95	NA	0.00	15.98	17.88	NA
		06/19/95	NA	0.00	16.74	17.12	NA
		07/24/95	NA	0.00	16.89	16.97	NA
		08/28/95	NA	0.00	17.15	16.71	NA
		09/25/95	NA	0.00	16.97	16.89	NA
		10/23/95	16.52	0.08	16.44	17.49	NA
		11/27/95	16.63	3.21	13.42	23.17	NA
		12/29/95	14.36	0.00	14.36	19.50	NA
		01/22/96	NA	0.00	15.73	18.13	NA
		02/26/96	NA	0.00	12.56	21.30	NA
		03/25/96	NA	0.00	16.06	17.80	NA
		04/22/96	NA	0.00	12.56	21.30	NA
		05/28/96	NA	0.00	14.61	19.25	NA
		06/24/96	NA	0.00	14.04	19.82	NA
		07/22/96	NA	0.00	15.84	18.02	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-31	33.86	08/26/96	NA	0.00	16.71	17.15	NA
		09/23/96	16.52	0.05	16.47	17.43	NA
		10/28/96	NA	0.00	15.90	17.96	NA
		11/25/96	NA	0.00	14.47	19.39	NA
		01/29/97	NP	0.00	14.75	19.11	0.00
		04/21/97	14.35	0.02	14.37	19.51	0.20
		07/24/97	NP	0.00	15.89	17.97	0.00
		10/15/97	NP	0.00	16.30	17.56	0.00
		01/19/98	NP	0.00	14.25	19.61	0.00
						SPH Recovered to Date:	**0.20**
B-32	34.23	03/24/95	16.03	0.00	16.03	18.20	NA
		04/24/95	16.31	0.26	16.57	17.88	NA
		05/22/95	16.76	0.00	16.76	17.47	NA
		06/19/95	17.10	0.00	17.10	17.13	NA
		07/24/95	17.59	0.00	17.59	16.64	NA
		08/28/95	17.94	0.00	17.94	16.29	NA
		09/25/95	18.11	0.00	18.11	16.12	NA
		10/23/95	17.98	0.00	17.98	16.25	NA
		11/27/95	17.25	0.00	17.25	16.98	NA
		12/29/95	16.09	0.00	16.09	18.14	NA
		01/22/96	NA	0.00	15.73	18.50	NA
		02/26/96	NA	0.00	12.72	21.51	NA
		03/25/96	NA	0.00	15.45	18.78	NA
		04/22/96	NA	0.00	15.75	18.48	NA
		05/28/96	NA	0.00	15.37	18.86	NA
		06/24/96	NA	0.00	16.01	18.22	NA
		07/22/96	NA	0.00	16.86	17.37	NA
		08/26/96	NA	0.00	17.37	16.86	NA
		09/23/96	NA	0.00	17.61	16.62	NA
		10/28/96	NA	0.00	17.57	16.66	NA
		11/25/96	NA	0.00	16.61	17.62	NA
		01/29/97	NP	0.00	15.46	18.77	NA
		04/21/97	NP	0.00	15.89	18.34	NA
		07/28/97	NP	0.00	16.66	17.57	0.00
		10/15/97	NP	0.00	17.37	16.86	0.00
		01/19/98	NP	0.00	15.84	18.39	0.00
						SPH Recovered to Date:	**0.00**
B-33	35.90	01/29/97	NP	0.00	14.86	21.04	0.00
		04/21/97	NP	0.00	15.70	20.20	0.00
		07/28/97	NP	0.00	16.24	19.66	0.00
		10/15/97	NP	0.00	16.93	18.97	0.00
		01/19/98	NP	0.00	16.00	19.90	0.00
						SPH Recovered to Date:	**0.00**
CR-1	22.08	01/29/96	NP	0.00	1.63	20.45	0.00
		01/29/97	NP	0.00	1.63	20.45	0.00
		04/21/97	NP	0.00	2.32	19.76	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-1	22.08	10/15/97	NP	0.00	3.55	18.53	0.00
		01/19/98	NP	0.00	2.50	19.58	0.00
						SPH Recovered to Date:	**0.00**
CR-3	34.32	04/24/95	NA	0.00	14.09	20.23	NA
		07/24/95	NA	0.00	15.25	19.07	NA
		10/23/95	NA	0.00	15.81	18.51	NA
		01/22/96	NA	0.00	10.42	23.90	NA
		01/29/96	NP	0.00	12.52	21.80	0.00
		04/22/96	NA	0.00	12.68	21.64	NA
		05/28/96	NA	0.00	13.61	20.71	NA
		07/22/96	NA	0.00	14.62	19.70	NA
		08/26/96	NA	0.00	15.13	19.19	NA
		09/23/96	NA	0.00	15.28	19.04	NA
		10/28/96	NA	0.00	14.79	19.53	NA
		11/25/96	NA	0.00	12.45	21.87	NA
		01/29/97	NP	0.00	12.52	21.80	0.00
		04/21/97	13.39	0.01	13.40	20.93	0.00
		07/28/97	NP	0.00	14.51	19.81	0.00
		10/15/97	NP	0.00	15.20	19.12	0.00
		01/19/98	NP	0.00	11.61	22.71	0.00
						SPH Recovered to Date:	**0.00**
CR-4	34.93	04/24/95	NA	0.00	5.13	29.80	NA
		07/24/95	NA	0.00	6.90	28.03	NA
		01/22/96	NA	0.00	4.70	30.23	NA
		05/28/96	NA	0.00	4.99	29.94	NA
		07/22/96	NA	0.00	6.48	28.45	NA
		10/28/96	NA	0.00	6.35	28.58	NA
	37.14	01/29/97	NP	0.00	4.99	32.15	0.00
	34.93	04/21/97	NP	0.00	5.09	29.84	0.00
	37.14	05/03/97	NP	0.00	6.78	30.36	0.00
		07/28/97	NP	0.00	6.31	30.83	0.00
		10/15/97	NP	0.00	5.95	31.19	0.00
		01/19/98	NP	0.00	4.92	32.22	0.00
						SPH Recovered to Date:	**0.00**
CR-6	35.61	03/24/95	12.07	0.01	12.08	23.54	NA
		04/24/95	12.03	0.01	12.04	23.58	NA
		05/22/95	12.51	0.01	12.52	23.10	NA
		06/19/95	10.16	0.00	10.16	25.45	NA
		07/24/95	14.86	0.01	14.87	20.75	0.02
		08/28/95	14.51	0.01	14.52	21.10	0.02
		09/25/95	15.46	0.01	15.47	20.15	0.05
		10/23/95	15.50	0.00	15.50	20.11	NA
		12/29/95	8.81	0.00	8.81	26.80	NA
		01/22/96	12.02	0.01	12.03	23.59	0.04
		02/26/96	10.71	0.00	10.71	24.90	NA
		03/25/96	11.28	0.00	11.28	24.33	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-6	35.61	05/28/96	11.49	0.00	11.49	24.12	NA
		06/24/96	11.35	0.00	11.35	24.26	NA
		07/22/96	12.57	0.01	12.58	23.04	0.01
		08/26/96	13.03	0.02	13.05	22.58	0.02
		09/23/96	13.05	0.03	13.08	22.56	NA
		10/28/96	12.85	0.04	12.89	22.75	NA
		11/25/96	12.55	0.02	12.57	23.06	NA
		01/29/97	NP	0.00	11.15	24.46	0.00
		04/21/97	NP	0.00	11.86	23.75	0.00
		07/28/97	12.74	0.01	12.75	22.87	1.00
		10/15/97	12.98	0.03	13.01	22.63	1.00
		01/19/98	NP	0.00	12.13	23.48	1.51
						SPH Recovered to Date:	**3.68**
CR-7	35.57	03/24/95	10.01	0.48	10.49	25.49	NA
		04/24/95	10.19	0.57	10.76	25.29	NA
		05/22/95	10.76	0.75	11.51	24.70	NA
		06/19/95	11.25	0.15	11.40	24.30	NA
		07/24/95	11.80	0.01	11.81	23.77	0.13
		08/28/95	12.20	0.00	12.20	23.37	0.03
		09/25/95	12.48	0.00	12.48	23.09	0.03
		10/23/95	11.98	0.00	11.98	23.59	NA
		11/27/95	10.73	0.00	10.73	24.84	NA
		12/29/95	10.23	0.05	10.28	25.33	NA
		01/22/96	9.91	0.21	10.12	25.63	0.12
		02/26/96	8.50	0.50	9.00	27.00	0.15
		03/25/96	9.81	0.02	9.83	25.76	0.01
		04/22/96	10.21	0.12	10.33	25.34	NA
		05/28/96	9.82	0.31	10.13	25.70	0.38
		06/24/96	10.78	0.20	10.98	24.76	0.69
		07/22/96	11.35	0.22	11.57	24.19	0.45
		08/26/96	11.84	0.12	11.96	23.71	0.13
		09/23/96	11.94	0.03	11.97	23.63	NA
		10/28/96	11.51	0.02	11.53	24.06	NA
		11/25/96	10.80	0.00	10.80	24.77	NA
		01/29/97	NP	0.00	11.11	24.46	0.00
		04/21/97	10.60	0.11	10.71	24.95	9.60
		07/24/97	11.52	0.10	11.62	24.03	2.75
		10/15/97	NP	0.00	11.57	24.00	0.25
		01/19/98	10.45	0.01	10.46	25.12	0.50
						SPH Recovered to Date:	**15.22**
CR-8	33.14	04/24/95	NA	0.00	6.41	26.73	NA
		07/24/95	NA	0.00	8.22	24.92	NA
		10/23/95	NA	0.00	8.08	25.06	NA
		01/22/96	NA	0.00	6.21	26.93	NA
		04/22/96	NA	0.00	6.47	26.67	NA
		05/28/96	NA	0.00	6.31	26.83	NA
		07/22/96	NA	0.00	7.08	26.06	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-8	33.14	10/28/96	NA	0.00	7.71	25.43	NA
		01/29/97	NP	0.00	5.94	27.20	0.00
		04/21/97	NP	0.00	6.41	26.73	0.00
		07/28/97	NP	0.00	7.30	25.84	0.00
		10/15/97	NP	0.00	7.36	25.78	0.00
		01/19/98	NP	0.00	5.78	27.36	0.00
						SPH Recovered to Date:	**0.00**
CR-9	35.72	01/29/97	NP	0.00	4.56	31.16	0.00
		04/21/97	3.38	0.01	3.39	32.34	0.20
		07/24/97	NP	0.00	5.71	30.01	0.00
		10/15/97	NP	0.00	4.13	31.59	0.00
		01/19/98	NP	0.00	3.01	32.71	0.00
						SPH Recovered to Date:	**0.20**
CR-10	35.57	03/24/95	5.34	0.03	5.37	30.23	NA
		04/24/95	4.27	0.08	4.35	31.29	NA
		05/22/95	5.31	0.09	5.40	30.25	NA
		06/19/95	6.30	0.08	6.38	29.26	NA
		07/24/95	9.22	0.00	9.22	26.35	NA
		08/28/95	10.15	0.00	10.15	25.42	0.40
		09/25/95	10.82	0.00	10.82	24.75	NA
		10/23/95	9.44	0.00	9.44	26.13	NA
		12/29/95	7.54	0.00	7.54	28.03	NA
		01/22/96	6.96	0.05	7.01	28.60	NA
		02/26/96	6.76	0.17	6.93	28.78	0.13
		03/25/96	7.62	0.00	7.62	27.95	5.16
		04/22/96	7.69	0.00	7.69	27.88	NA
		07/22/96	1.28	0.05	1.23	34.38	NA
		11/25/96	2.35	0.00	2.35	33.22	NA
		01/29/97	NP	0.00	3.76	31.81	0.00
		04/21/97	4.26	0.16	4.42	31.29	6.40
		07/24/97	5.94	0.38	6.32	29.57	6.00
		10/15/97	5.70	0.32	6.02	29.82	3.00
		01/19/98	4.01	0.15	4.16	31.54	5.00
						SPH Recovered to Date:	**26.09**
CR-11	34.43	03/24/95	1.19	0.00	1.19	33.24	NA
		04/24/95	1.34	0.00	1.34	33.09	NA
		05/22/95	2.49	0.00	2.49	31.94	NA
		06/19/95	2.94	0.00	2.94	31.49	NA
		07/24/95	3.68	0.00	3.68	30.75	NA
		08/28/95	4.18	0.00	4.18	30.25	NA
		09/25/95	4.83	0.00	4.83	29.60	NA
		10/23/95	4.59	0.00	4.59	29.84	NA
		11/27/95	3.61	0.00	3.61	30.82	NA
		12/29/95	1.83	0.00	1.83	32.60	NA
		01/22/96	1.78	0.00	1.78	32.65	NA
		02/26/96	1.13	0.00	1.13	33.30	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-11	34.43	03/25/96	1.27	0.00	1.27	33.16	NA
		04/22/96	1.40	0.00	1.40	33.03	NA
		05/28/96	1.45	0.00	1.45	32.98	NA
		06/24/96	2.39	0.00	2.39	32.04	NA
		07/22/96	3.35	0.00	3.35	31.08	NA
		08/26/96	4.10	0.00	4.10	30.33	NA
		09/23/96	4.35	0.00	4.35	30.08	NA
		10/28/96	3.12	0.02	3.14	31.31	NA
		11/25/96	2.35	0.00	2.35	32.08	0.00
		01/29/97	NP	0.00	1.55	32.88	0.00
		04/21/97	NP	0.00	1.34	33.09	0.00
		07/24/97	NP	0.00	3.03	31.40	0.00
		10/15/97	NP	0.00	3.68	30.75	0.00
		01/19/98	NP	0.00	1.99	32.44	0.00
						SPH Recovered to Date:	**0.00**
						Chevron total SPH Recovered to Date:	**49.01**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX				
MW-1	35.43	04/24/95	NA	0.00	3.55	31.88	NA
		07/24/95	NA	0.00	6.26	29.17	NA
		10/23/95	NA	0.00	5.85	29.58	NA
		01/22/96	NA	0.00	2.92	32.51	NA
		04/22/96	NA	0.00	4.01	31.42	NA
		07/22/96	NA	0.00	6.92	28.51	NA
		10/28/96	NA	0.00	5.35	30.08	NA
		01/30/97	NP	0.00	3.92	31.51	0.00
		04/21/97	NP	0.00	3.63	31.80	0.00
		07/30/97	NP	0.00	6.69	28.74	0.00
		10/14/97	NP	0.00	5.18	30.25	0.00
		01/19/98	NP	0.00	3.09	32.34	0.00
						SPH Recovered to Date:	**0.00**
MW-2	35.77	01/30/97	NP	0.00	4.88	30.89	0.00
		04/21/97	NP	0.00	5.41	30.36	0.00
		07/30/97	NP	0.00	7.27	28.50	0.00
		10/14/97	NP	0.00	7.57	28.20	0.00
		01/19/98	NP	0.00	4.99	30.78	0.00
						SPH Recovered to Date:	**0.00**
MW-3	36.02	03/06/95	NA	0.00	6.79	29.23	NA
		03/27/95	NA	0.00	6.65	29.37	NA
		04/24/95	NA	0.00	6.98	29.04	NA
		07/24/95	NA	0.00	8.63	27.39	NA
		10/23/95	NA	0.00	9.62	26.40	NA
		01/22/96	8.96	0.00	8.96	27.06	NA
		04/22/96	NA	0.00	6.34	29.68	NA
		07/22/96	NA	0.00	8.47	27.55	NA
		10/28/96	NA	0.00	8.70	27.32	NA
		01/30/97	NP	0.00	6.40	29.62	0.00
		04/21/97	NP	0.00	6.93	29.09	0.00
		07/30/97	NP	0.00	8.54	27.48	0.00
		10/14/97	NP	0.00	8.79	27.23	0.00
		01/19/98	NP	0.00	7.54	28.48	0.00
						SPH Recovered to Date:	**0.00**
MW-4	36.39	04/24/95	NA	0.00	6.35	30.04	NA
		07/24/95	NA	0.00	8.17	28.22	NA
		10/23/95	NA	0.00	9.16	27.23	NA
		01/22/96	NA	0.00	5.20	31.19	NA
		04/22/96	NA	0.00	5.59	30.80	NA
		07/22/96	NA	0.00	7.97	28.42	NA
		10/28/96	NA	0.00	8.14	28.25	NA
		11/25/96	NA	0.00	6.10	30.29	NA
		01/30/97	NP	0.00	5.40	30.99	0.00
		04/21/97	NP	0.00	6.29	30.10	0.00
		07/30/97	NP	0.00	8.07	28.32	0.00
		10/14/97	NP	0.00	8.35	28.04	0.00

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-4	36.39	01/19/98	NP	0.00	5.86	30.53	0.00
						SPH Recovered to Date:	**0.00**
MW-5	33.52	03/27/95	NP	0.00	3.55	29.97	0.00
		04/24/95	NA	0.00	5.29	28.23	NA
		07/24/95	NA	0.00	7.12	26.40	NA
		10/23/95	NA	0.00	8.56	24.96	NA
		01/22/96	NA	0.00	4.32	29.20	NA
		04/22/96	NA	0.00	4.73	28.79	NA
		07/22/96	NA	0.00	6.98	26.54	NA
		10/28/96	NA	0.00	7.60	25.92	NA
		12/23/96	NA	0.00	2.35	31.17	NA
		01/30/97	NP	0.00	5.01	28.51	0.00
		04/21/97	NP	0.00	5.07	28.45	0.00
		07/30/97	NP	0.00	7.05	26.47	0.00
		10/14/97	NP	0.00	7.24	26.28	0.00
		01/19/98	NP	0.00	5.52	28.00	0.00
						SPH Recovered to Date:	**0.00**
MW-6	33.34	03/06/95	3.34	0.20	3.54	29.97	NA
		03/27/95	3.05	0.68	3.73	30.19	NA
		04/24/95	3.29	0.89	4.18	29.92	NA
		05/22/95	3.80	0.03	3.83	29.54	1.50
		06/19/95	4.64	0.00	4.64	28.70	1.34
		07/24/95	5.15	0.00	5.15	28.19	NA
		08/28/95	5.90	0.00	5.90	27.44	NA
		09/25/95	6.50	0.00	6.50	26.84	NA
		10/23/95	6.22	0.00	6.22	27.12	NA
		11/27/95	4.37	0.00	4.37	28.97	NA
		12/29/95	3.76	0.19	3.95	29.55	NA
		01/22/96	2.50	0.35	2.85	30.79	NA
		02/26/96	2.07	0.01	2.08	31.27	NA
		03/25/96	3.34	0.00	3.34	30.00	0.18
		04/22/96	3.18	0.00	3.18	30.16	NA
		05/28/96	3.23	0.00	3.23	30.11	0.06
		06/24/96	4.35	0.00	4.35	28.99	NA
		07/22/96	5.08	0.00	5.08	28.26	NA
		08/26/96	5.89	0.00	5.89	27.45	NA
		09/23/96	5.54	0.00	5.54	27.80	NA
		10/28/96	5.19	0.00	5.19	28.15	NA
		11/25/96	3.28	0.00	3.28	30.06	NA
		12/23/96	2.98	0.43	3.41	30.30	NA
		01/30/97	NP	0.00	2.77	30.57	0.00
		04/21/97	NP	0.00	3.25	30.09	0.00
		07/30/97	5.10	0.13	5.23	28.22	0.25
		10/14/97	NP	0.00	5.40	27.94	0.00
		01/19/98	NP	0.00	3.07	30.27	0.00
						SPH Recovered to Date:	**3.33**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-7	34.12	03/06/95	7.96	0.04	8.00	26.15	NA
		03/27/95	7.88	0.06	7.94	26.23	NA
		04/24/95	8.18	0.00	8.18	25.94	NA
		05/22/95	8.51	0.34	8.85	25.56	NA
		06/19/95	8.93	0.39	9.32	25.13	NA
		07/24/95	9.35	0.15	9.50	24.75	0.06
		08/28/95	9.79	0.21	10.00	24.30	NA
		09/25/95	10.13	0.38	10.51	23.93	NA
		10/23/95	7.04	0.43	7.47	27.02	NA
		11/27/95	9.00	0.00	9.00	25.12	NA
		12/29/95	8.13	0.03	8.16	25.99	0.37
		01/22/96	7.44	0.00	7.44	26.68	0.08
		02/26/96	6.20	0.00	6.20	27.92	NA
		03/25/96	7.50	0.20	7.70	26.59	NA
		04/22/96	7.84	0.11	7.95	26.26	0.12
		05/28/96	7.70	0.10	7.80	26.41	0.12
		06/24/96	8.36	0.12	8.48	25.74	0.37
		07/22/96	8.98	0.30	9.28	25.09	NA
		08/26/96	9.52	0.30	9.82	24.56	NA
		09/23/96	9.55	0.38	9.93	24.51	NA
		10/28/96	9.30	0.48	9.78	24.75	NA
		11/25/96	8.23	0.68	8.91	25.79	NA
		12/23/96	7.52	1.98	9.50	26.30	NA
		01/30/97	7.13	3.11	10.24	26.52	70.00
		04/21/97	7.91	1.81	9.72	25.94	57.00
		07/24/97	8.91	1.05	9.96	25.05	22.00
		10/14/97	9.58	0.30	9.88	24.50	6.00
		01/19/98	7.92	1.76	9.68	25.94	20.00
						SPH Recovered to Date:	**176.12**
MW-8	33.95	04/24/95	NA	0.00	7.27	26.68	NA
		07/24/95	NA	0.00	8.53	25.42	NA
		10/23/95	NA	0.00	9.45	24.50	NA
		01/22/96	NA	0.00	6.45	27.50	NA
		04/22/96	NA	0.00	6.99	26.96	NA
		07/22/96	NA	0.00	8.30	25.65	NA
		10/28/96	NA	0.00	8.76	25.19	NA
		01/30/97	NP	0.00	6.38	27.57	0.00
		04/21/97	NP	0.00	7.07	26.88	0.00
		07/30/97	NP	0.00	8.29	25.66	0.00
		10/14/97	NP	0.00	9.82	24.13	0.00
		01/19/98	NP	0.00	7.18	26.77	0.00
						SPH Recovered to Date:	**0.00**
MW-9	36.53	04/24/95	NA	0.00	9.67	26.86	NA
		07/24/95	NA	0.00	10.85	25.68	NA
		10/23/95	NA	0.00	11.86	24.67	NA
		01/22/96	NA	0.00	9.57	26.96	NA
		04/22/96	NA	0.00	9.47	27.06	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-9	36.53	07/22/96	NA	0.00	10.34	26.19	NA
		10/28/96	NA	0.00	11.32	25.21	NA
		01/30/97	NP	0.00	894.00	0.00	0.00
		04/21/97	9.51	0.01	9.52	27.02	0.10
		07/24/97	NP	0.00	10.28	26.25	0.00
		10/14/97	NP	0.00	11.23	25.30	0.00
		01/19/98	NP	0.00	10.28	26.25	0.00
						SPH Recovered to Date:	**0.10**
MW-10	35.82	04/24/95	NA	0.00	8.54	27.28	NA
		07/24/95	NA	0.00	10.25	25.57	NA
		10/23/95	NA	0.00	11.20	24.62	NA
		01/22/96	NA	0.00	7.31	28.51	NA
		04/22/96	NA	0.00	8.09	27.73	NA
		07/22/96	NA	0.00	9.87	25.95	NA
		10/28/96	NA	0.00	10.22	25.60	NA
		01/30/97	NP	0.00	7.40	28.42	0.00
		04/21/97	NP	0.00	8.40	27.42	0.00
		07/30/97	NP	0.00	9.98	25.84	0.00
		10/14/97	NP	0.00	10.38	25.44	0.00
		01/19/98	NP	0.00	8.24	27.58	0.00
						SPH Recovered to Date:	**0.00**
MW-11	36.47	03/06/95	NA	0.00	5.09	31.38	NA
		03/27/95	5.25	0.00	5.25	31.22	NA
		04/24/95	5.36	0.00	5.36	31.11	NA
		05/22/95	6.11	0.00	6.11	30.36	NA
		06/19/95	6.52	0.00	6.52	29.95	NA
		07/24/95	7.10	0.00	7.10	29.37	NA
		08/28/95	8.00	0.00	8.00	28.47	NA
		09/25/95	8.12	0.00	8.12	28.35	NA
		10/23/95	7.39	0.00	7.39	29.08	NA
		11/27/95	5.25	0.00	5.25	31.22	NA
		12/29/95	5.65	0.00	5.65	30.82	NA
		01/22/96	4.50	0.00	4.50	31.97	NA
		01/30/96	NP	0.00	5.20	31.27	0.00
		02/26/96	3.69	0.00	3.69	32.78	NA
		03/25/96	5.50	0.00	5.50	30.97	NA
		04/22/96	5.15	0.00	5.15	31.32	NA
		05/28/96	5.29	0.00	5.29	31.18	NA
		06/24/96	6.27	0.00	6.27	30.20	NA
		07/22/96	7.04	0.00	7.04	29.43	NA
		08/26/96	7.86	0.00	7.86	28.61	NA
		09/23/96	7.20	0.00	7.20	29.27	NA
		10/28/96	6.33	0.00	6.33	30.14	NA
		11/25/96	4.94	0.00	4.94	31.53	NA
		12/23/96	NA	0.00	4.68	31.79	NA
		01/30/97	NP	0.00	5.20	31.27	0.00
		04/21/97	NP	0.00	5.41	31.06	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-11	36.47	07/30/97	NP	0.00	7.05	29.42	0.00
		10/14/97	6.62	0.01	6.63	29.85	0.50
		01/19/98	NP	0.00	4.81	31.66	0.00
						SPH Recovered to Date:	**0.50**
MW-12	35.95	04/24/95	NA	0.00	5.22	30.73	NA
		07/24/95	NA	0.00	7.30	28.65	NA
		10/23/95	NA	0.00	8.33	27.62	NA
		01/22/96	NA	0.00	3.83	32.12	NA
		04/22/96	NA	0.00	4.34	31.61	NA
		07/22/96	NA	0.00	7.15	28.80	NA
		10/28/96	NA	0.00	7.37	28.58	NA
		01/30/97	NP	0.00	4.26	31.69	0.00
		04/21/97	NP	0.00	5.05	30.90	0.00
		07/30/97	NP	0.00	7.27	28.68	0.00
		10/14/97	NP	0.00	7.46	28.49	0.00
		01/19/98	NP	0.00	4.43	31.52	0.00
						SPH Recovered to Date:	**0.00**
MW-13	37.89	04/24/95	NA	0.00	4.41	33.48	NA
		07/24/95	NA	0.00	6.29	31.60	NA
		10/23/95	NA	0.00	6.67	31.22	NA
		01/22/96	NA	0.00	3.65	34.24	NA
		04/22/96	NA	0.00	4.18	33.71	NA
		07/22/96	NA	0.00	6.28	31.61	NA
		10/28/96	NA	0.00	5.61	32.28	NA
		01/30/97	NP	0.00	4.22	33.67	0.00
		04/21/97	NP	0.00	4.28	33.61	0.00
		07/30/97	NP	0.00	6.27	31.62	0.00
		10/14/97	NP	0.00	5.64	32.25	0.00
		01/19/98	NP	0.00	3.43	34.46	0.00
						SPH Recovered to Date:	**0.00**
MW-14	36.28	04/24/95	NA	0.00	3.33	32.95	NA
		07/24/95	NA	0.00	5.62	30.66	NA
		10/23/95	NA	0.00	5.96	30.32	NA
		01/22/96	NA	0.00	2.71	33.57	NA
		04/22/96	NA	0.00	3.25	33.03	NA
		07/22/96	NA	0.00	5.68	30.60	NA
		10/28/96	NA	0.00	5.30	30.98	NA
		01/30/97	NP	0.00	3.28	33.00	0.00
		04/21/97	NP	0.00	3.29	32.99	0.00
		07/30/97	NP	0.00	5.64	30.64	0.00
		10/14/97	NP	0.00	5.13	31.15	0.00
		01/19/98	NP	0.00	2.50	33.78	0.00
						SPH Recovered to Date:	**0.00**
MW-15	37.50	01/30/97	NP	0.00	3.28	34.22	0.00
		04/21/97	NP	0.00	4.85	32.65	0.00
		07/30/97	NP	0.00	7.92	29.58	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-15	37.50	10/14/97	NP	0.00	5.91	31.59	0.00
		01/19/98	NP	0.00	4.43	33.07	0.00
						SPH Recovered to Date:	**0.00**
MW-16	34.93	07/24/95	NA	0.00	5.78	29.15	NA
		10/23/95	NA	0.00	6.73	28.20	NA
		01/22/96	NA	0.00	2.44	32.49	NA
		04/22/96	NA	0.00	3.46	31.47	NA
		07/22/96	NA	0.00	5.63	29.30	NA
		10/28/96	NA	0.00	5.90	29.03	NA
		01/30/97	NP	0.00	3.15	31.78	0.00
		04/21/97	NP	0.00	3.44	31.49	0.00
		07/30/97	NP	0.00	5.65	29.28	0.00
		10/14/97	NP	0.00	5.80	29.13	0.00
		01/19/98	NP	0.00	2.90	32.03	0.00
						SPH Recovered to Date:	**0.00**
MW-17	36.05	01/30/97	NP	0.00	4.27	31.78	0.00
		04/21/97	NP	0.00	4.39	31.66	0.00
		07/30/97	NP	0.00	5.28	30.77	0.00
		10/14/97	NP	0.00	5.21	30.84	0.00
		01/19/98	NP	0.00	4.12	31.93	0.00
						SPH Recovered to Date:	**0.00**
MW-18	33.76	04/24/95	NA	0.00	1.66	32.10	NA
		07/24/95	NA	0.00	3.02	30.74	NA
		10/23/95	NA	0.00	3.43	30.33	NA
		01/22/96	NA	0.00	1.08	32.68	NA
		04/22/96	NA	0.00	0.89	32.87	NA
		07/22/96	NA	0.00	2.83	30.93	NA
		10/28/96	NA	0.00	2.48	31.28	NA
		01/30/97	NP	0.00	1.24	32.52	0.00
		04/21/97	NP	0.00	1.23	32.53	0.00
		07/30/97	NP	0.00	2.66	31.10	0.00
		10/14/97	NP	0.00	2.45	31.31	0.00
		01/19/98	NP	0.00	0.73	33.03	0.00
						SPH Recovered to Date:	**0.00**
MW-19	33.39	03/06/95	2.77	0.49	3.26	30.55	NA
		03/27/95	2.57	0.51	3.08	30.74	NA
		04/24/95	2.79	0.54	3.33	30.52	NA
		05/22/95	3.19	0.51	3.70	30.12	NA
		06/19/95	3.87	0.61	4.48	29.43	NA
		07/24/95	4.41	0.01	4.42	28.98	0.31
		08/28/95	5.64	0.00	5.64	27.75	0.03
		09/25/95	6.80	0.00	6.80	26.59	NA
		10/23/95	5.48	0.00	5.48	27.91	NA
		11/27/95	3.79	0.00	3.79	29.60	NA
		12/29/95	3.23	0.00	3.23	30.16	NA
		01/22/96	2.18	0.00	2.18	31.21	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-19	33.39	02/26/96	1.57	0.00	1.57	31.82	NA
		03/25/96	2.56	0.00	2.56	30.83	NA
		04/22/96	1.77	0.00	1.77	31.62	NA
		05/28/96	2.11	0.00	2.11	31.28	NA
		06/24/96	2.93	0.00	2.93	30.46	NA
		07/22/96	3.61	0.00	3.61	29.78	NA
		08/26/96	4.31	0.00	4.31	29.08	NA
		09/23/96	3.65	0.00	3.65	29.74	NA
		10/28/96	1.95	0.00	1.95	31.44	NA
		11/25/96	1.63	0.00	1.63	31.76	NA
		12/23/96	1.86	0.00	1.86	31.53	NA
		01/30/97	NP	0.00	1.86	31.53	0.00
		04/21/97	NP	0.00	2.23	31.16	0.00
		07/30/97	NP	0.00	3.79	29.60	0.00
		10/14/97	NP	0.00	3.63	29.76	0.00
		01/19/98	NP	0.00	1.31	32.08	0.00
						SPH Recovered to Date:	**0.34**
MW-20	34.76	04/24/95	NA	0.00	9.55	25.21	NA
		07/24/95	NA	0.00	10.73	24.03	NA
		10/23/95	NA	0.00	11.35	23.41	NA
		01/22/96	NA	0.00	8.50	26.26	NA
		04/22/96	NA	0.00	9.53	25.23	NA
		07/22/96	NA	0.00	10.41	24.35	NA
		09/23/96	11.08	0.00	11.08	23.68	NA
		10/28/96	NA	0.00	10.74	24.02	NA
		11/25/96	NA	0.00	9.19	25.57	NA
		12/23/96	NA	0.00	9.05	25.71	NA
		01/30/97	NP	0.00	8.03	26.73	0.00
		04/21/97	NP	0.00	9.35	25.41	0.00
		07/30/97	NP	0.00	10.45	24.31	0.00
		10/14/97	NP	0.00	10.58	24.18	0.00
		01/19/98	NP	0.00	9.07	25.69	0.00
						SPH Recovered to Date:	**0.00**
MW-21	34.33	04/24/95	NA	0.00	1.48	32.85	NA
		07/24/95	NA	0.00	2.21	32.12	NA
		10/23/95	NA	0.00	2.04	32.29	NA
		01/22/96	NA	0.00	1.08	33.25	NA
		04/22/96	NA	0.00	0.78	33.55	NA
		07/22/96	NA	0.00	2.24	32.09	NA
		10/28/96	NA	0.00	1.97	32.36	NA
		01/30/97	NP	0.00	1.15	33.18	0.00
		04/21/97	NP	0.00	1.13	33.20	0.00
		07/30/97	NP	0.00	2.05	32.28	0.00
		10/14/97	NP	0.00	1.76	32.57	0.00
		01/19/98	NM	0.00	NM	0.00	0.00
						SPH Recovered to Date:	**0.00**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-22	35.65	03/06/95	NA	0.00	3.32	32.33	NA
		03/27/95	3.23	0.00	3.23	32.42	NA
		04/24/95	3.25	0.00	3.25	32.40	NA
		05/22/95	3.93	0.00	3.93	31.72	NA
		06/19/95	4.34	0.00	4.34	31.31	NA
		07/24/95	4.83	0.00	4.83	30.82	NA
		08/28/95	5.35	0.00	5.35	30.30	NA
		09/25/95	5.94	0.00	5.94	29.71	NA
		10/23/95	5.24	0.00	5.24	30.41	NA
		11/27/95	4.04	0.00	4.04	31.61	NA
		12/28/95	3.26	0.00	3.26	32.39	NA
		01/22/96	2.77	0.00	2.77	32.88	NA
		02/26/96	2.42	0.00	2.42	33.23	NA
		03/25/96	3.47	0.00	3.47	32.18	NA
		04/22/96	3.32	0.00	3.32	32.33	NA
		05/28/96	3.06	0.00	3.06	32.59	NA
		06/24/96	3.93	0.00	3.93	31.72	NA
		07/22/96	4.55	0.00	4.55	31.10	NA
		08/26/96	6.85	0.00	6.85	28.80	NA
		09/23/96	5.66	0.00	5.66	29.99	NA
		10/28/96	4.80	0.00	4.80	30.85	NA
		11/25/96	3.96	0.00	3.96	31.69	NA
		12/23/96	3.20	0.00	3.20	32.45	NA
		01/30/97	NP	0.00	3.72	31.93	0.00
		04/21/97	NP	0.00	3.27	32.38	0.00
		07/30/97	NP	0.00	4.73	30.92	0.00
		10/14/97	NP	0.00	4.87	30.78	0.00
		01/19/98	NP	0.00	2.96	32.69	0.00
						SPH Recovered to Date:	**0.00**
MW-23	36.06	03/27/95	9.42	0.00	9.42	26.64	NA
		04/24/95	3.97	0.00	3.97	32.09	NA
		05/22/95	4.50	0.00	4.50	31.56	NA
		06/26/95	4.75	0.00	4.75	31.31	NA
		07/24/95	5.07	0.00	5.07	30.99	NA
		08/28/95	5.44	0.11	5.55	30.60	NA
		10/23/95	5.15	0.00	5.15	30.91	NA
		11/27/95	3.56	0.00	3.56	32.50	NA
		12/28/95	4.27	0.00	4.27	31.79	NA
		01/22/96	NA	0.00	3.49	32.57	NA
		02/26/96	3.59	0.00	3.59	32.47	NA
		03/25/96	4.24	0.00	4.24	31.82	NA
		04/22/96	3.23	0.00	3.23	32.83	NA
		05/28/96	3.97	0.00	3.97	32.09	NA
		06/24/96	4.46	0.00	4.46	31.60	NA
		07/22/96	5.02	0.03	5.05	31.04	NA
		08/28/96	5.80	0.00	5.80	30.26	NA
		09/23/96	5.30	0.06	5.36	30.75	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-23	36.06	09/25/96	5.78	0.22	6.00	30.25	NA
		10/28/96	4.73	0.00	4.73	31.33	NA
		11/25/96	3.75	0.00	3.75	32.31	NA
		12/23/96	3.68	0.00	3.68	32.38	NA
		01/30/97	NP	0.00	3.46	32.60	0.00
		04/21/97	NP	0.00	3.89	32.17	0.00
		07/30/97	NP	0.00	5.15	30.91	0.00
		10/14/97	5.82	0.07	5.89	30.23	3.00
		01/19/98	NP	0.00	3.08	32.98	0.00
						SPH Recovered to Date:	**3.00**
MW-24	35.15	03/06/95	4.15	0.83	4.98	30.88	NA
		04/24/95	5.31	0.94	4.37	31.58	NA
		05/22/95	4.96	0.01	4.95	30.21	NA
		06/26/95	6.50	1.90	8.40	28.36	NA
		07/24/95	7.25	0.24	7.49	27.86	NA
		08/28/95	8.42	1.58	10.00	26.49	NA
		12/01/95	NM	0.00	NM	0.00	28.10
		03/27/96	4.28	0.90	5.18	30.74	NA
		12/01/96	NM	0.00	NM	0.00	1.20
		01/30/97	NP	0.00	5.10	30.05	0.00
		04/21/97	NP	0.00	4.89	30.26	0.00
		07/30/97	8.30	0.16	8.46	26.83	0.25
		10/14/97	NP	0.00	8.13	27.02	1.50
		01/19/98	4.02	0.01	4.03	31.13	0.75
						SPH Recovered to Date:	**31.80**
MW-25	34.73	04/22/96	10.00	0.24	10.24	24.69	NA
		09/23/96	11.69	0.00	11.69	23.04	NA
		10/28/96	NA	0.00	11.22	23.51	NA
		11/25/96	NA	0.00	9.95	24.78	NA
		12/23/96	NA	0.00	9.72	25.01	NA
		01/30/97	NP	0.00	9.37	25.36	0.00
		04/21/97	9.90	0.01	9.91	24.83	0.10
		07/24/97	NP	0.00	10.92	23.81	0.00
		10/14/97	NP	0.00	11.30	23.43	0.00
		01/19/98	NP	0.00	9.84	24.89	0.00
						SPH Recovered to Date:	**0.10**
MW-26	34.78	07/22/96	11.39	0.43	11.82	23.33	NA
		09/11/96	10.00	0.24	10.24	24.74	NA
		09/23/96	11.85	0.25	12.10	22.89	NA
		10/28/96	11.38	0.03	11.41	23.40	NA
		11/25/96	10.36	0.00	10.36	24.42	NA
		12/23/96	10.39	0.00	10.39	24.39	NA
		01/30/97	NP	0.00	10.35	24.43	0.00
		04/21/97	NP	0.00	10.32	24.46	0.10
		07/30/97	11.42	0.01	11.43	23.36	0.10
		10/14/97	11.68	0.02	11.70	23.10	0.50

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-26	34.78	01/19/98	NP	0.00	10.36	24.42	0.00
						SPH Recovered to Date:	**0.70**
MW-27	35.67	02/26/96	3.94	0.00	3.94	31.73	NA
		03/25/96	4.73	0.00	4.73	30.94	NA
		04/22/96	3.71	0.00	3.71	31.96	NA
		05/28/96	4.54	0.00	4.54	31.13	NA
		06/24/96	5.34	0.00	5.34	30.33	NA
		07/22/96	5.73	0.00	5.73	29.94	NA
		08/26/96	5.96	0.00	5.96	29.71	NA
		09/23/96	6.81	0.00	6.81	28.86	NA
		10/28/96	5.35	0.00	5.35	30.32	NA
		11/25/96	3.34	0.00	3.34	32.33	NA
		12/23/96	4.04	0.00	4.04	31.63	NA
		01/30/97	NP	0.00	4.37	31.30	0.00
		04/21/97	NP	0.00	4.44	31.23	0.00
		07/30/97	NP	0.00	5.69	29.98	0.00
		10/14/97	NP	0.00	5.29	30.38	0.00
		01/19/98	NP	0.00	3.81	31.86	0.00
						SPH Recovered to Date:	**0.00**
MW-28	34.39	03/06/95	NA	0.00	4.41	29.98	NA
		03/27/95	4.74	0.01	4.75	29.65	NA
		04/24/95	5.26	0.00	5.26	29.13	NA
		05/22/95	6.00	0.02	6.02	28.39	NA
		06/26/95	6.50	0.09	6.59	27.88	NA
		07/24/95	6.94	0.00	6.94	27.45	NA
		08/28/95	8.04	0.01	8.05	26.35	0.75
		10/23/95	7.60	0.00	7.60	26.79	NA
		11/27/95	4.04	0.00	4.04	30.35	0.03
		12/28/95	4.25	0.00	4.25	30.14	NA
		01/22/96	2.29	0.00	2.29	32.10	NA
		02/26/96	3.78	0.00	3.78	30.61	NA
		03/25/96	5.10	0.00	5.10	29.29	NA
		04/22/96	4.22	0.00	4.22	30.17	NA
		05/28/96	4.66	0.00	4.66	29.73	NA
		06/24/96	6.01	0.00	6.01	28.38	NA
		07/22/96	6.77	0.00	6.77	27.62	NA
		08/28/96	7.56	0.00	7.56	26.83	NA
		09/23/96	6.28	0.00	6.28	28.11	NA
		09/25/96	11.75	0.00	11.75	22.64	1.03
		10/28/96	5.03	0.00	5.03	29.36	NA
		11/25/96	2.50	0.00	2.50	31.89	NA
		12/23/96	4.38	0.01	4.39	30.01	NA
		01/30/97	NP	0.00	3.71	30.68	0.00
		04/21/97	4.72	0.03	4.75	29.67	0.50
		07/30/97	NP	0.00	6.30	28.09	0.00
		10/14/97	5.87	0.02	5.89	28.52	1.00
		01/19/98	NP	0.00	4.01	30.38	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
						SPH Recovered to Date:	**3.31**
MW-29	35.77	04/24/95	NA	0.00	13.34	22.43	NA
		07/24/95	NA	0.00	14.20	21.57	NA
		10/23/95	NA	0.00	14.86	20.91	NA
		01/22/96	NA	0.00	12.70	23.07	NA
		04/22/96	NA	0.00	12.75	23.02	NA
		07/22/96	NA	0.00	13.64	22.13	NA
		10/28/96	NA	0.00	14.15	21.62	NA
		01/30/97	NP	0.00	13.41	22.36	0.00
		04/21/97	NP	0.00	12.89	22.88	0.00
		07/30/97	NP	0.00	13.58	22.19	0.00
		10/14/97	NP	0.00	14.17	21.60	0.00
		01/19/98	NP	0.00	13.13	22.64	0.00
						SPH Recovered to Date:	**0.00**
MW-30	36.39	01/30/97	NP	0.00	4.43	31.96	0.00
		04/21/97	NP	0.00	4.65	31.74	0.00
		07/30/97	NP	0.00	6.00	30.39	0.00
		10/14/97	NP	0.00	5.79	30.60	0.00
		01/19/98	NP	0.00	3.85	32.54	0.00
						SPH Recovered to Date:	**0.00**
MW-31	37.55	03/06/95	NA	0.00	5.64	31.91	NA
		03/27/95	5.75	0.01	5.76	31.80	NA
		04/24/95	6.09	0.00	6.09	31.46	NA
		05/22/95	6.70	0.00	6.70	30.85	NA
		06/26/95	7.26	0.00	7.26	30.29	NA
		07/24/95	7.74	0.00	7.74	29.81	NA
		08/28/95	8.41	0.00	8.41	29.14	NA
		10/23/95	8.56	0.00	8.56	28.99	NA
		11/27/95	6.33	0.00	6.33	31.22	NA
		12/28/95	5.90	0.00	5.90	31.65	NA
		01/22/96	4.62	0.00	4.62	32.93	NA
		02/26/96	4.92	0.00	4.92	32.63	NA
		03/25/96	6.02	0.00	6.02	31.53	NA
		04/22/96	5.57	0.00	5.57	31.98	NA
		05/28/96	5.73	0.00	5.73	31.82	NA
		06/24/96	6.72	0.00	6.72	30.83	NA
		07/22/96	7.38	0.00	7.38	30.17	NA
		08/28/96	8.02	0.00	8.02	29.53	NA
		09/23/96	7.48	0.00	7.48	30.07	NA
		09/25/96	8.96	0.00	8.96	28.59	NA
		10/28/96	6.68	0.00	6.68	30.87	NA
		11/25/96	4.92	0.00	4.92	32.63	NA
		12/23/96	5.08	0.00	5.08	32.47	NA
		01/30/97	NP	0.00	5.45	32.10	0.00
		04/21/97	NP	0.00	5.73	31.82	0.00
		07/30/97	NP	0.00	7.32	30.23	0.00

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-31	37.55	10/14/97	NP	0.00	7.19	30.36	0.00
		01/19/98	NP	0.00	4.79	32.76	0.00
						SPH Recovered to Date:	**0.00**
MW-32	37.01	04/24/95	NA	0.00	4.27	32.74	NA
		07/24/95	NA	0.00	5.75	31.26	NA
		10/23/95	NA	0.00	6.40	30.61	NA
		04/22/96	NA	0.00	3.89	33.12	NA
		07/22/96	NA	0.00	5.45	31.56	NA
		10/28/96	NA	0.00	5.59	31.42	NA
		01/30/97	NP	0.00	4.37	32.64	0.00
		04/21/97	NP	0.00	4.02	32.99	0.00
		07/30/97	NP	0.00	5.49	31.52	0.00
		10/14/97	NP	0.00	5.57	31.44	0.00
		01/19/98	NP	0.00	3.45	33.56	0.00
						SPH Recovered to Date:	**0.00**
MW-33	39.34	04/24/95	NA	0.00	19.93	19.41	NA
		07/24/95	NA	0.00	20.68	18.66	NA
		10/23/95	NA	0.00	21.05	18.29	NA
		01/22/96	NA	0.00	19.07	20.27	NA
		04/22/96	NA	0.00	19.48	19.86	NA
		07/22/96	NA	0.00	20.26	19.08	NA
		10/28/96	NA	0.00	20.58	18.76	NA
		01/30/97	NP	0.00	18.92	20.42	0.00
		04/21/97	NP	0.00	19.61	19.73	0.00
		07/30/97	NP	0.00	20.03	19.31	0.00
		10/14/97	NP	0.00	20.54	18.80	0.00
		01/19/98	NP	0.00	19.40	19.94	0.00
						SPH Recovered to Date:	**0.00**
MW-34	39.67	04/24/95	NA	0.00	19.40	20.27	NA
		07/24/95	NA	0.00	19.99	19.68	NA
		10/23/95	NA	0.00	20.26	19.41	NA
		01/22/96	NA	0.00	18.71	20.96	NA
		04/22/96	NA	0.00	19.43	20.24	NA
		07/22/96	NA	0.00	19.74	19.93	NA
		10/28/96	NA	0.00	20.18	19.49	NA
		01/30/97	NP	0.00	18.78	20.89	0.00
		04/21/97	NP	0.00	19.41	20.26	0.00
		07/30/97	NP	0.00	19.76	19.91	0.00
		10/14/97	NP	0.00	20.04	19.63	0.00
		01/19/98	NP	0.00	19.92	19.75	0.00
						SPH Recovered to Date:	**0.00**
MW-35	33.39	01/30/97	NP	0.00	2.08	31.31	0.00
		04/21/97	NP	0.00	2.58	30.81	0.00
		10/14/97	NP	0.00	4.03	29.36	0.00
		01/19/98	NP	0.00	2.88	30.51	0.00

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
						SPH Recovered to Date:	**0.00**
MW-36	34.88	04/24/95	NA	0.00	19.40	15.48	NA
		07/24/95	NA	0.00	19.99	14.89	NA
		10/23/95	NA	0.00	20.26	14.62	NA
		01/22/96	NA	0.00	13.74	21.14	NA
		04/22/96	NA	0.00	13.72	21.16	NA
		07/22/96	NA	0.00	14.90	19.98	NA
		10/28/96	NA	0.00	15.54	19.34	NA
		01/30/97	NP	0.00	13.02	21.86	0.00
		04/21/97	NP	0.00	13.98	20.90	0.00
		07/30/97	NP	0.00	14.51	20.37	0.00
		10/14/97	NP	0.00	15.15	19.73	0.00
		01/19/98	NP	0.00	14.13	20.75	0.00
						SPH Recovered to Date:	**0.00**
MW-37	34.86	04/24/95	NA	0.00	14.96	19.90	NA
		07/24/95	NA	0.00	15.88	18.98	NA
		10/23/95	NA	0.00	16.37	18.49	NA
		01/22/96	NA	0.00	14.22	20.64	NA
		04/22/96	NA	0.00	13.72	21.14	NA
		07/22/96	NA	0.00	15.28	19.58	NA
		10/28/96	NA	0.00	15.80	19.06	NA
		01/30/97	NP	0.00	13.44	21.42	NA
		04/21/97	NP	0.00	14.48	20.38	NA
		07/30/97	NP	0.00	15.15	19.71	0.00
		10/14/97	NP	0.00	15.76	19.10	0.00
		01/19/98	NP	0.00	14.61	20.25	0.00
						SPH Recovered to Date:	**0.00**
MW-38	37.50	01/30/97	NP	0.00	3.98	33.52	0.00
		04/21/97	NP	0.00	4.84	32.66	0.00
		10/14/97	NP	0.00	7.39	30.11	0.00
		01/19/98	NP	0.00	4.76	32.74	0.00
						SPH Recovered to Date:	**0.00**
MW-39	35.02	06/24/96	13.01	0.00	13.01	22.01	NA
		07/22/96	13.45	0.00	13.45	21.57	NA
		08/26/96	13.90	0.00	13.90	21.12	NA
		09/23/96	14.08	0.00	14.08	20.94	NA
		10/28/96	14.00	0.00	14.00	21.02	NA
		11/25/96	13.54	0.00	13.54	21.48	NA
		12/23/96	12.77	0.00	12.77	22.25	NA
		01/30/97	NM	0.00	NM	0.00	0.00
		04/21/97	NM	0.00	NM	0.00	0.00
		10/14/97	NP	0.00	13.99	21.03	0.00
		01/19/98	NM	0.00	NM	0.00	0.00
						SPH Recovered to Date:	**0.00**
MW-40	33.65	06/24/96	13.81	0.00	13.81	19.84	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-40	33.65	07/22/96	14.32	0.00	14.32	19.33	NA
		08/26/96	14.77	0.00	14.77	18.88	NA
		09/23/96	14.83	0.00	14.83	18.82	NA
		10/28/96	14.63	0.00	14.63	19.02	NA
		11/25/96	13.78	0.00	13.78	19.87	NA
		12/23/96	13.37	0.00	13.37	20.28	NA
		01/30/97	NP	0.00	12.74	20.91	0.00
		04/21/97	NP	0.00	13.65	20.00	0.00
		07/30/97	NP	0.00	14.24	19.41	0.00
		10/14/97	NP	0.00	14.62	19.03	0.00
		01/19/98	NP	0.00	13.28	20.37	0.00
						SPH Recovered to Date:	**0.00**
						GATX total SPH Recovered to Date:	**219.30**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco				
B-1	34.79	04/24/95	17.42	0.49	17.91	17.30	NA
		05/22/95	17.57	0.47	18.04	17.15	NA
		06/26/95	17.75	0.48	18.23	16.97	NA
		07/24/95	17.98	0.02	18.00	16.81	0.00
		08/28/95	18.32	0.02	18.34	16.47	NA
		09/25/95	18.37	0.14	18.51	16.40	NA
		10/23/95	18.30	0.01	18.31	16.49	NA
		11/27/95	17.94	0.03	17.97	16.85	0.01
		12/28/95	16.75	0.16	16.91	18.02	0.85
		01/22/96	16.73	0.12	16.85	18.04	0.01
		02/26/96	13.40	0.02	13.42	21.39	0.08
		04/22/96	16.20	0.15	16.35	18.57	0.01
		05/28/96	16.21	0.00	16.21	18.58	NA
		06/24/96	16.68	0.01	16.69	18.11	NA
		07/22/96	17.20	0.02	17.22	17.59	NA
		08/23/96	17.49	0.03	17.52	17.30	NA
		09/23/96	17.72	0.01	17.73	17.07	NA
		10/28/96	17.18	0.01	17.19	17.61	NA
		01/31/97	15.94	0.16	16.10	18.83	NA
		04/21/97	16.87	0.12	16.99	17.90	NA
		07/28/97	17.15	0.65	17.80	17.54	NA
		10/14/97	17.68	0.62	18.30	17.02	0.50
		01/19/98	17.10	0.01	17.11	17.69	0.10
						SPH Recovered to Date:	**1.56**
B-2	35.35	03/28/95	NA	0.00	16.84	18.51	NA
		04/24/95	NA	0.00	17.02	18.33	NA
		05/22/95	NA	0.00	17.22	18.13	NA
		06/26/95	NA	0.00	17.48	17.87	NA
		08/28/95	19.58	0.26	19.84	15.73	NA
		09/25/95	NA	0.00	18.18	17.17	NA
		10/23/95	NA	0.00	18.15	17.20	NA
		12/28/95	NA	0.00	16.56	18.79	NA
		01/22/96	16.48	0.02	16.50	18.87	NA
		04/22/96	NA	0.00	16.28	19.07	NA
		05/28/96	NA	0.00	16.14	19.21	NA
		06/24/96	NA	0.00	16.50	18.85	NA
		07/22/96	NA	0.00	16.99	18.36	NA
		08/23/96	NA	0.00	17.48	17.87	NA
		09/23/96	NA	0.00	17.50	17.85	NA
		10/28/96	NA	0.00	17.60	17.75	NA
		01/31/97	NP	0.00	15.69	19.66	0.00
		04/21/97	NP	0.00	16.52	18.83	0.00
		07/28/97	NP	0.00	16.94	18.41	0.00
		10/14/97	NP	0.00	17.57	17.78	0.00
		01/19/98	NP	0.00	16.87	18.48	0.00
						SPH Recovered to Date:	**0.00**
B-3	36.79	01/31/97	NP	0.00	17.26	19.53	0.00

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-3	36.79	04/21/97	NP	0.00	18.48	18.31	0.00
		07/28/97	NP	0.00	18.83	17.96	0.00
		10/14/97	NP	0.00	19.38	17.41	0.00
		01/19/98	NP	0.00	18.25	18.54	0.00
						SPH Recovered to Date:	**0.00**
B-4	34.79	03/28/95	17.92	0.71	18.63	16.76	NA
		04/24/95	18.01	1.16	19.17	16.61	NA
		05/22/95	18.11	1.13	19.24	16.51	NA
		06/26/95	18.27	1.01	19.28	16.37	NA
		07/24/95	18.53	0.11	18.64	16.24	0.15
		08/28/95	18.62	0.01	18.63	16.17	NA
		09/25/95	18.82	0.13	18.95	15.95	NA
		10/23/95	18.83	0.02	18.85	15.96	NA
		11/27/95	18.56	0.06	18.62	16.22	0.37
		01/22/96	17.60	0.04	17.64	17.18	0.24
		02/26/96	NA	0.00	13.68	21.11	NA
		04/22/96	16.35	0.09	16.44	18.43	0.02
		05/28/96	16.35	0.07	16.42	18.43	0.02
		08/23/96	18.35	0.00	18.35	16.44	NA
		09/23/96	18.44	0.01	18.45	16.35	NA
		10/28/96	17.56	1.03	18.59	17.08	NA
		01/31/97	17.00	0.48	17.48	17.72	3.25
		04/21/97	NP	0.00	17.71	17.08	0.10
		07/28/97	18.50	0.02	18.52	16.29	0.10
		10/15/97	18.55	0.01	18.56	16.24	1.50
		01/19/98	17.91	0.06	17.97	16.87	1.50
						SPH Recovered to Date:	**7.25**
B-5	34.79	01/22/96	NA	0.00	16.18	18.61	NA
		02/26/96	NA	0.00	14.40	20.39	NA
		05/28/96	NA	0.00	15.59	19.20	NA
		06/24/96	DRY	0.00	DRY	0.00	DRY
		07/22/96	DRY	0.00	DRY	0.00	DRY
		08/23/96	DRY	0.00	DRY	0.00	DRY
		09/23/96	NA	0.00	17.02	17.77	NA
		10/28/96	NA	0.00	17.10	17.69	NA
	34.83	01/31/97	NP	0.00	15.30	19.53	0.00
		04/21/97	NP	0.00	16.08	18.75	0.00
		07/28/97	NP	0.00	16.54	18.29	0.00
		10/14/97	NP	0.00	17.10	17.73	0.00
		01/19/98	NP	0.00	16.54	18.29	0.00
						SPH Recovered to Date:	**0.00**
B-6	35.41	01/22/96	NP	0.00	16.44	18.97	NA
		02/26/96	NP	0.00	15.60	19.81	NA
		04/22/96	NA	0.00	16.15	19.26	NA
		05/28/96	NA	0.00	16.11	19.30	NA
		06/24/96	NA	0.00	16.47	18.94	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-6	35.41	07/22/96	NA	0.00	16.91	18.50	NA
		08/23/96	NA	0.00	17.99	17.42	NA
		09/23/96	NA	0.00	17.45	17.96	NA
		10/28/96	NA	0.00	17.34	18.07	NA
		01/31/97	NP	0.00	15.47	19.94	0.00
		04/21/97	NP	0.00	16.31	19.10	0.00
		07/28/97	NP	0.00	16.87	18.54	0.00
		10/14/97	NP	0.00	17.47	17.94	0.00
		01/19/98	NP	0.00	16.85	18.56	0.00
						SPH Recovered to Date:	**0.00**
B-16	35.82	03/24/95	NA	0.00	16.99	18.83	NA
		04/24/95	NA	0.00	17.12	18.70	NA
		05/22/95	NA	0.00	17.37	18.45	NA
		06/19/95	NA	0.00	17.59	18.23	NA
		07/24/95	NA	0.00	17.89	17.93	NA
		08/28/95	NA	0.00	18.10	17.72	NA
		09/25/95	NA	0.00	18.35	17.47	NA
		10/23/95	NA	0.00	18.30	17.52	NA
		11/27/95	NA	0.00	17.90	17.92	NA
		01/22/96	NA	0.00	0.00	35.82	NA
		02/26/96	NA	0.00	13.30	22.52	NA
		04/22/96	NA	0.00	16.04	19.78	NA
		05/28/96	NA	0.00	16.39	19.43	NA
		06/24/96	NA	0.00	16.71	19.11	NA
		07/22/96	NA	0.00	17.19	18.63	NA
		09/23/96	NA	0.00	17.76	18.06	NA
		10/28/96	NA	0.00	17.82	18.00	NA
		01/31/97	NP	0.00	15.75	20.07	0.00
		04/21/97	NP	0.00	16.65	19.17	0.00
		07/28/97	NP	0.00	17.15	18.67	0.00
		10/14/97	NP	0.00	17.79	18.03	0.00
		01/19/98	NP	0.00	17.16	18.66	0.00
						SPH Recovered to Date:	**0.00**
B-17	35.59	03/28/95	16.95	0.00	16.95	18.64	NA
		04/24/95	NA	0.00	17.15	18.44	NA
		05/22/95	17.36	0.00	17.36	18.23	NA
		06/26/95	17.61	0.00	17.61	17.98	NA
		07/24/95	17.79	0.01	17.80	17.80	NA
		08/28/95	18.78	0.01	18.79	16.81	NA
		09/25/95	NA	0.00	18.23	17.36	NA
		10/23/95	NA	0.00	18.21	17.38	NA
		11/27/95	17.85	0.00	17.85	17.74	NA
		12/28/95	NA	0.00	16.85	18.74	NA
		01/22/96	NA	0.00	16.78	18.81	NA
		02/26/96	13.35	0.01	13.36	22.24	NA
		04/22/96	16.44	0.00	16.44	19.15	NA
		05/28/96	16.40	0.00	16.40	19.19	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-17	35.59	06/24/96	16.40	0.00	16.40	19.19	NA
		07/22/96	17.16	0.00	17.16	18.43	NA
		08/23/96	17.57	0.00	17.57	18.02	NA
		09/23/96	NA	0.00	17.68	17.91	NA
		10/28/96	NA	0.00	17.75	17.84	NA
		01/31/97	NP	0.00	15.86	19.73	0.00
		04/21/97	NP	0.00	16.66	18.93	0.00
		07/28/97	NP	0.00	17.15	18.44	0.00
		10/14/97	NP	0.00	17.74	17.85	0.00
		01/19/98	NP	0.00	17.17	18.42	0.00
						SPH Recovered to Date:	**0.00**
B-18	35.79	03/28/95	NA	0.00	19.28	16.51	NA
		04/24/95	NA	0.00	19.38	16.41	NA
		05/22/95	NA	0.00	19.44	16.35	NA
		06/26/95	NA	0.00	19.56	16.23	NA
		07/24/95	NA	0.00	19.74	16.05	NA
		08/28/95	NA	0.00	19.43	16.36	NA
		09/25/95	NA	0.00	20.02	15.77	NA
		10/23/95	NA	0.00	20.08	15.71	NA
		12/28/95	NA	0.00	18.66	17.13	NA
		01/22/96	0.00	18.20	18.20	33.06	NA
		02/26/96	0.00	18.38	18.38	33.03	NA
		04/22/96	NA	0.00	18.50	17.29	NA
		05/28/96	NA	0.00	17.84	17.95	NA
		06/24/96	NA	0.00	18.35	17.44	NA
		07/22/96	NA	0.00	18.97	16.82	NA
		08/23/96	NA	0.00	17.50	18.29	NA
		09/23/96	NA	0.00	19.43	16.36	NA
		10/28/96	NA	0.00	19.47	16.32	NA
		01/31/97	NP	0.00	18.09	17.70	0.00
		04/21/97	NP	0.00	18.94	16.85	0.00
		07/28/97	NP	0.00	19.14	16.65	0.00
		10/14/97	NP	0.00	19.64	16.15	0.00
		01/19/98	NP	0.00	19.03	16.76	0.00
						SPH Recovered to Date:	**0.00**
B-22	35.83	03/28/95	NA	0.00	18.50	17.33	NA
		04/24/95	NA	0.00	19.10	16.73	NA
		05/22/95	NA	0.00	19.09	16.74	NA
		06/26/95	NA	0.00	19.26	16.57	NA
		09/25/95	NA	0.00	20.50	15.33	NA
		10/23/95	NA	0.00	19.96	15.87	NA
		12/28/95	NA	0.00	18.59	17.24	0.02
		01/22/96	NA	0.00	18.88	16.95	NA
		02/26/96	NA	0.00	12.05	23.78	NA
		04/22/96	NA	0.00	17.75	18.08	NA
		05/28/96	NA	0.00	17.31	18.52	NA
		06/24/96	NA	0.00	18.12	17.71	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-22	35.83	07/22/96	NA	0.00	19.09	16.74	NA
		08/23/96	NA	0.00	19.03	16.80	NA
		09/23/96	NA	0.00	19.79	16.04	NA
		10/28/96	NA	0.00	19.75	16.08	NA
		01/31/97	17.92	0.01	17.93	17.91	0.10
		04/21/97	NP	0.00	18.67	17.16	0.00
		07/28/97	18.89	2.26	21.15	16.60	1.00
		10/14/97	19.56	0.04	19.60	16.26	1.75
		01/19/98	18.55	1.35	19.90	17.08	4.00
						SPH Recovered to Date:	**6.87**
B-25	37.60	04/21/97	NP	0.00	15.29	22.31	0.00
		10/14/97	NP	0.00	19.75	17.85	0.00
		01/19/98	NP	0.00	19.05	18.55	0.00
						SPH Recovered to Date:	**0.00**
B-27	35.74	03/28/95	17.25	0.27	17.52	18.45	NA
		04/24/95	17.70	0.31	18.01	17.99	NA
		05/22/95	17.85	0.32	18.17	17.84	NA
		06/26/95	17.91	1.12	19.03	17.66	NA
		07/24/95	18.11	1.14	19.25	17.46	NA
		08/28/95	18.75	0.50	19.25	16.92	NA
		09/25/95	18.50	1.10	19.60	17.08	NA
		10/23/95	18.59	1.10	19.69	16.99	NA
		11/27/95	18.50	0.30	18.80	17.19	0.80
		01/22/96	17.44	0.43	17.87	18.24	0.78
		02/26/96	13.38	0.31	13.69	22.31	0.25
		04/22/96	16.68	0.27	16.95	19.02	0.12
		08/23/96	18.12	0.56	18.68	17.54	0.31
		09/23/96	18.34	0.36	18.70	17.35	NA
		10/28/96	18.58	0.11	18.69	17.14	NA
		01/31/97	16.43	2.20	18.63	18.98	4.00
		04/21/97	17.37	0.13	17.50	18.35	0.60
		07/25/97	NP	0.00	17.86	17.88	0.00
		10/15/97	18.52	0.01	18.53	17.22	0.75
		01/19/98	NP	0.00	17.94	17.80	6.00
						SPH Recovered to Date:	**13.61**
B-35	33.58	04/24/95	16.10	0.23	16.33	17.45	NA
		05/22/95	16.24	0.19	16.43	17.31	NA
		06/26/95	16.45	0.23	16.68	17.10	NA
		07/24/95	16.65	0.21	16.86	16.90	NA
		08/28/95	17.35	0.17	17.52	16.20	NA
		09/25/95	17.02	0.30	17.32	16.51	NA
		10/23/95	16.94	0.21	17.15	16.61	NA
		11/27/95	16.50	0.06	16.56	17.07	0.08
		12/28/95	15.60	0.01	15.61	17.98	0.02
		01/22/96	15.52	0.05	15.57	18.05	NA
		02/26/96	13.50	0.05	13.55	20.07	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-35	33.58	04/22/96	17.78	0.06	17.84	15.79	NA
		05/28/96	15.08	0.00	15.08	18.50	NA
		06/24/96	NA	0.00	15.54	18.04	NA
		07/22/96	NA	0.00	16.06	17.52	NA
		08/23/96	NA	0.00	16.85	16.73	NA
		09/23/96	NA	0.00	16.60	16.98	NA
		10/28/96	16.85	0.06	16.91	16.72	NA
		01/31/97	NP	0.00	14.84	18.74	0.00
		04/21/97	NP	0.00	15.74	17.84	0.00
		07/28/97	NP	0.00	16.05	17.53	0.00
		10/14/97	NP	0.00	16.57	17.01	0.00
		01/19/98	NP	0.00	15.95	17.63	0.00
						SPH Recovered to Date:	**0.10**
B-36	30.97	03/28/95	NA	0.00	14.65	16.32	NA
		04/24/95	NA	0.00	14.95	16.02	NA
		05/22/95	NA	0.00	15.03	15.94	NA
		06/26/95	NA	0.00	15.24	15.73	NA
		07/24/95	NA	0.00	15.47	15.50	NA
		08/28/95	NA	0.00	15.35	15.62	NA
		09/25/95	NA	0.00	15.82	15.15	NA
		10/23/95	NA	0.00	15.60	15.37	NA
		12/28/95	NA	0.00	13.91	17.06	NA
		01/22/96	0.00	13.93	13.93	28.88	NA
		02/26/96	0.00	10.75	10.75	29.36	NA
		04/22/96	NA	0.00	14.10	16.87	NA
		05/28/96	NA	0.00	13.01	17.96	NA
		06/24/96	NA	0.00	13.84	17.13	NA
		07/22/96	NA	0.00	15.01	15.96	NA
		08/23/96	NA	0.00	15.81	15.16	NA
		09/23/96	NA	0.00	15.65	15.32	NA
		10/28/96	NA	0.00	15.55	15.42	NA
		01/31/97	NP	0.00	13.44	17.53	0.00
		04/21/97	NP	0.00	14.66	16.31	0.00
		07/28/97	NP	0.00	15.01	15.96	0.00
		10/14/97	NP	0.00	15.55	15.42	0.00
		01/19/98	NP	0.00	14.43	16.54	0.00
						SPH Recovered to Date:	**0.00**
B-37	35.24	03/28/95	NA	0.00	18.51	16.73	NA
		04/24/95	NA	0.00	19.66	15.58	NA
		05/22/95	NA	0.00	19.62	15.62	NA
		06/26/95	NA	0.00	19.75	15.49	NA
		07/24/95	NA	0.00	20.08	15.16	NA
		08/28/95	NA	0.00	20.10	15.14	NA
		09/25/95	20.41	0.01	20.42	14.83	NA
		10/23/95	20.44	0.01	20.45	14.80	NA
		11/27/95	19.90	0.00	19.90	15.34	NA
		12/28/95	19.66	0.00	19.66	15.58	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-37	35.24	01/22/96	18.20	0.03	18.23	17.04	NA
		02/26/96	NA	0.00	14.15	21.09	NA
		04/22/96	NA	0.00	18.90	16.34	NA
		05/28/96	NA	0.00	17.94	17.30	NA
		06/24/96	NA	0.00	19.13	16.11	NA
		07/22/96	NA	0.00	20.13	15.11	NA
		08/23/96	NA	0.00	20.15	15.09	NA
		09/23/96	NA	0.00	20.76	14.48	NA
		10/28/96	NA	0.00	20.87	14.37	NA
		01/31/97	NP	0.00	19.29	15.95	2.00
		04/21/97	NP	0.00	19.98	15.26	0.00
		07/28/97	NP	0.00	20.30	14.94	0.00
		10/14/97	NP	0.00	20.86	14.38	0.00
		01/19/98	NP	0.00	19.95	15.29	0.00
						SPH Recovered to Date:	**2.00**
B-38	34.75	03/28/95	18.95	1.95	20.90	15.51	NA
		04/24/95	19.17	1.51	20.68	15.35	NA
		05/22/95	19.13	1.45	20.58	15.40	NA
		06/26/95	19.30	1.16	20.46	15.28	NA
		07/24/95	19.75	0.17	19.92	14.97	0.20
		08/28/95	19.82	0.71	20.53	14.82	NA
		09/25/95	19.99	1.03	21.02	14.61	NA
		10/23/95	20.00	1.03	21.03	14.60	NA
		11/27/95	19.50	0.32	19.82	15.20	0.81
		01/22/96	18.89	0.14	19.03	15.84	0.45
		02/26/96	13.70	0.37	14.07	20.99	1.31
		04/22/96	18.63	0.25	18.88	16.08	NA
		07/22/96	19.59	1.25	20.84	14.97	NA
		08/23/96	18.70	0.03	18.73	16.05	NA
		09/23/96	20.18	0.78	20.96	14.45	NA
		10/28/96	20.18	0.70	20.88	14.47	NA
		01/31/97	18.80	0.45	19.25	15.88	2.00
		04/21/97	19.39	0.64	20.03	15.26	0.60
		07/25/97	19.78	0.21	19.99	14.94	0.75
		10/14/97	20.30	0.01	20.31	14.45	1.50
		01/19/98	NM	0.00	NM	0.00	0.00
						SPH Recovered to Date:	**7.62**
B-39	33.92	03/28/95	18.14	0.04	18.18	15.77	NA
		04/24/95	18.31	0.03	18.34	15.61	NA
		05/22/95	18.28	0.03	18.31	15.64	NA
		06/26/95	18.43	0.09	18.52	15.48	NA
		07/24/95	18.73	0.13	18.86	15.17	NA
		08/28/95	18.95	0.11	19.06	14.95	NA
		09/25/95	19.08	0.14	19.22	14.82	NA
		10/23/95	19.09	0.20	19.29	14.80	NA
		11/27/95	19.55	0.07	19.62	14.36	0.11
		12/28/95	18.05	0.18	18.23	15.84	0.04

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-39	33.92	01/22/96	17.03	0.07	17.10	16.88	0.01
		02/26/96	13.54	0.46	14.00	20.31	0.03
		04/22/96	18.65	0.08	18.73	15.26	0.90
		05/28/96	16.64	0.12	16.76	17.26	0.02
		06/24/96	17.67	0.72	18.39	16.14	0.03
		07/22/96	18.68	0.03	18.71	15.24	0.01
		08/23/96	19.18	0.87	20.05	14.61	0.40
		09/23/96	19.42	0.09	19.51	14.49	NA
		10/28/96	19.25	0.04	19.29	14.66	NA
		01/31/97	18.27	0.91	19.18	15.51	2.00
		04/21/97	18.43	0.10	18.53	15.48	0.40
		07/25/97	18.72	0.97	19.69	15.05	2.75
		10/15/97	19.45	0.76	20.21	14.36	3.30
		01/19/98	18.39	0.58	18.97	15.44	1.00
						SPH Recovered to Date:	**11.00**
B-40	33.19	03/28/95	17.55	0.09	17.64	15.63	NA
		04/24/95	17.84	0.12	17.96	15.33	NA
		05/22/95	17.75	0.11	17.86	15.42	NA
		06/26/95	17.95	0.11	18.06	15.22	NA
		08/28/95	18.40	0.01	18.41	14.79	NA
		09/25/95	NA	0.00	18.77	14.42	NA
		10/23/95	18.74	0.01	18.75	14.45	NA
		11/27/95	17.98	0.02	18.00	15.21	NA
		12/28/95	17.23	0.00	17.23	15.96	NA
		01/22/96	NA	0.00	16.40	16.79	NA
		02/26/96	NA	0.00	12.75	20.44	NA
		04/22/96	17.01	0.00	17.01	16.18	NA
		05/28/96	15.78	0.29	16.07	17.37	NA
		06/24/96	16.99	0.15	17.14	16.18	0.23
		07/22/96	18.32	0.12	18.44	14.85	0.01
		08/23/96	18.87	0.06	18.93	14.31	0.02
		09/23/96	19.06	0.06	19.12	14.12	NA
		10/28/96	NA	0.00	19.02	14.17	NA
		01/31/97	16.76	0.54	17.30	16.35	NA
		04/21/97	17.79	0.02	17.81	15.40	0.40
		07/25/97	18.86	0.04	18.90	14.32	1.50
		10/14/97	NP	0.00	19.89	13.30	0.25
		01/19/98	NP	0.00	17.53	15.66	0.00
						SPH Recovered to Date:	**2.41**
B-41	34.85	03/28/95	18.80	0.08	18.88	16.04	NA
		04/24/95	18.93	0.06	18.99	15.91	NA
		05/22/95	18.95	0.07	19.02	15.89	NA
		06/26/95	19.11	0.06	19.17	15.73	NA
		08/28/95	18.55	0.70	19.25	16.19	NA
		09/25/95	19.73	0.20	19.93	15.09	NA
		10/23/95	19.70	0.60	20.30	15.06	NA
		11/27/95	18.50	0.15	18.65	16.33	0.23

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-41	34.85	01/22/96	17.38	0.04	17.42	17.46	0.18
		02/26/96	13.40	0.41	13.81	21.39	NA
		04/22/96	12.75	0.23	12.98	22.07	NA
		09/23/96	19.38	0.02	19.40	15.47	0.06
		10/28/96	19.87	0.08	19.95	14.97	NA
		01/31/97	NP	0.00	18.31	16.54	0.00
		04/21/97	18.51	0.03	18.54	16.34	0.20
		07/25/97	18.13	0.70	18.83	16.61	0.10
		10/14/97	NP	0.00	19.40	15.45	0.00
		01/19/98	NM	0.00	NM	0.00	0.00
						SPH Recovered to Date:	**0.77**
DW-1	35.93	01/26/98	NP	0.00	19.56	16.37	0.00
						SPH Recovered to Date:	**0.00**
DW-2	36.05	01/27/98	NP	0.00	19.65	16.40	0.00
						SPH Recovered to Date:	**0.00**
IT-E	36.44	01/31/97	18.85	0.62	19.47	17.50	0.50
		04/21/97	19.69	0.63	20.32	16.66	0.30
		07/28/97	20.05	0.60	20.65	16.30	2.00
		10/14/97	20.69	0.03	20.72	15.75	0.80
		01/19/98	19.79	0.01	19.80	16.65	0.00
						SPH Recovered to Date:	**3.60**
IT-W	35.99	01/31/97	NP	0.00	16.65	19.34	0.00
		04/21/97	NP	0.00	17.44	18.55	0.00
		07/28/97	NP	0.00	17.81	18.18	0.00
		10/14/97	NP	0.00	18.33	17.66	0.00
		01/19/98	NP	0.00	17.72	18.27	0.00
						SPH Recovered to Date:	**0.00**
RES-N	38.58	03/28/95	23.14	0.76	23.90	15.33	NA
		04/24/95	23.17	1.74	24.91	15.15	NA
		05/22/95	23.17	0.75	23.92	15.30	NA
		06/26/95	23.26	0.75	24.01	15.21	NA
		08/28/95	23.64	0.68	24.32	14.84	NA
		09/25/95	23.75	0.50	24.25	14.76	NA
		10/23/95	23.80	0.60	24.40	14.69	NA
		11/27/95	23.26	0.60	23.86	15.23	1.59
		12/28/95	22.59	0.02	22.61	15.99	1.21
		01/22/96	20.91	0.03	20.94	17.67	5.00
		02/26/96	23.34	0.76	24.10	15.13	41.25
		04/22/96	22.14	0.02	22.16	16.44	NA
		05/28/96	21.11	0.00	21.11	17.47	NA
		06/24/96	22.41	0.00	22.41	16.17	NA
		07/22/96	22.88	0.00	22.88	15.70	NA
		07/24/96	23.45	0.76	24.21	15.02	NA
		08/23/96	NA	0.00	22.21	16.37	NA
		09/23/96	23.74	0.02	23.76	14.84	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
RES-N	38.58	10/28/96	NA	0.00	24.32	14.26	NA
		01/31/97	22.45	0.09	22.54	16.12	2.00
		04/21/97	23.00	0.01	23.01	15.58	NA
		07/28/97	23.46	0.02	23.48	15.12	0.10
		10/14/97	23.84	0.02	23.86	14.74	1.30
		01/19/98	NM	0.00	NM	0.00	0.00
						SPH Recovered to Date:	**52.45**
RES-O	36.03	03/28/95	17.61	0.04	17.65	18.41	NA
		04/24/95	17.78	0.02	17.80	18.25	NA
		05/22/95	17.99	0.02	18.01	18.04	NA
		06/26/95	18.26	0.02	18.28	17.77	NA
		08/28/95	17.30	0.25	17.55	18.69	NA
		09/25/95	18.60	0.61	19.21	17.34	NA
		10/23/95	18.90	0.14	19.04	17.11	NA
		11/27/95	19.25	0.01	19.26	16.78	0.01
		12/28/95	17.53	0.01	17.54	18.50	NA
		01/22/96	17.42	0.07	17.49	18.60	NA
		02/26/96	12.50	0.11	12.61	23.51	NA
		04/22/96	10.95	0.10	11.05	25.07	NA
		05/28/96	16.82	0.00	16.82	19.21	NA
		06/24/96	17.18	0.01	17.19	18.85	NA
		07/22/96	17.53	0.01	17.54	18.50	NA
		08/23/96	18.10	0.01	18.11	17.93	NA
		09/23/96	18.22	0.08	18.30	17.80	NA
		10/28/96	18.10	0.05	18.15	17.92	NA
		01/31/97	NP	0.00	16.20	19.83	0.00
		04/21/97	NP	0.00	17.00	19.03	0.00
		07/28/97	NP	0.00	17.65	18.38	0.00
		10/14/97	NP	0.00	18.39	17.64	0.00
		01/19/98	NP	0.00	17.60	18.43	0.00
						SPH Recovered to Date:	**0.01**
U-2	35.02	03/28/95	NA	0.00	14.88	20.14	NA
		04/24/95	NA	0.00	15.10	19.92	NA
		05/22/95	NA	0.00	15.25	19.77	NA
		06/26/95	NA	0.00	15.52	19.50	NA
		07/24/95	NA	0.00	15.75	19.27	NA
		08/28/95	NA	0.00	15.65	19.37	NA
		09/25/95	NA	0.00	15.20	19.82	NA
		10/23/95	NA	0.00	16.57	18.45	NA
		12/28/95	NA	0.00	15.06	19.96	NA
		01/22/96	NA	0.00	16.44	18.58	NA
		02/26/96	NA	0.00	14.35	20.67	NA
		04/22/96	NA	0.00	15.01	20.01	NA
		05/28/96	NA	0.00	13.98	21.04	NA
		06/24/96	NA	0.00	14.36	20.66	NA
		07/22/96	NA	0.00	14.96	20.06	NA
		08/23/96	NA	0.00	15.10	19.92	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
U-2	35.02	09/23/96	NA	0.00	14.93	20.09	NA
		10/28/96	NA	0.00	14.85	20.17	NA
		01/31/97	NP	0.00	13.86	21.16	0.00
		04/21/97	NP	0.00	14.52	20.50	0.00
		07/28/97	NP	0.00	15.27	19.75	0.00
		10/15/97	NP	0.00	16.28	18.74	0.00
		01/19/98	NP	0.00	15.78	19.24	0.00
						SPH Recovered to Date:	**0.00**
U-3	35.25	03/28/95	NA	0.00	12.72	22.53	NA
		04/24/95	NA	0.00	12.93	22.32	NA
		05/22/95	NA	0.00	13.55	21.70	NA
		06/26/95	13.89	0.01	13.90	21.36	NA
		07/24/95	NA	0.00	14.02	21.23	NA
		08/28/95	NA	0.00	19.65	15.60	NA
		09/25/95	NA	0.00	16.35	18.90	NA
		10/23/95	14.20	0.01	14.21	21.05	NA
		11/27/95	14.20	0.00	14.20	21.05	NA
		12/28/95	12.71	0.00	12.71	22.54	NA
		01/22/96	16.56	0.02	16.58	18.69	NA
		02/26/96	14.51	0.36	14.15	21.41	NA
		04/22/96	NA	0.00	15.15	20.10	NA
		05/28/96	NA	0.00	12.27	22.98	NA
		06/24/96	NA	0.00	12.69	22.56	NA
		07/22/96	NA	0.00	13.02	22.23	NA
		08/23/96	NA	0.00	13.15	22.10	NA
		09/23/96	NA	0.00	15.02	20.23	NA
		10/28/96	NA	0.00	17.90	17.35	NA
		01/31/97	NP	0.00	11.86	23.39	0.00
		04/21/97	NP	0.00	12.82	22.43	0.00
		07/28/97	NP	0.00	13.83	21.42	0.00
		10/15/97	NP	0.00	14.23	21.02	0.00
		01/19/98	NP	0.00	13.04	22.21	0.00
						SPH Recovered to Date:	**0.00**
U-4	34.46	03/28/95	17.42	3.98	21.40	16.44	NA
		04/24/95	15.60	6.17	21.77	17.93	NA
		05/22/95	15.75	6.18	21.93	17.78	NA
		06/26/95	15.96	6.16	22.12	17.58	NA
		07/24/95	16.33	4.17	20.50	17.50	NA
		08/28/95	17.23	3.72	20.95	16.67	5.20
		09/25/95	18.60	0.25	18.85	15.82	NA
		10/23/95	17.35	3.90	21.25	16.52	NA
		11/27/95	16.40	2.40	18.80	17.70	1.22
		01/22/96	17.60	0.04	17.64	16.85	2.79
		02/26/96	12.85	0.30	13.15	21.57	0.98
		04/22/96	11.50	0.23	11.73	22.93	0.31
		08/23/96	16.31	0.16	16.47	18.13	0.25
		09/23/96	16.61	0.09	16.70	17.84	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
U-4	34.46	10/28/96	17.56	0.19	17.75	16.87	NA
		01/31/97	14.80	2.25	17.05	19.32	6.50
		04/21/97	15.26	0.09	15.35	19.19	NA
		07/25/97	15.85	0.01	15.86	18.61	0.10
		10/15/97	16.50	0.01	16.51	17.96	0.75
		01/19/98	15.97	0.03	16.00	18.49	2.00
						SPH Recovered to Date:	**20.10**
U-5	33.37	03/28/95	NA	0.00	18.21	15.16	NA
		04/24/95	NA	0.00	18.47	14.90	NA
		05/22/95	NA	0.00	18.33	15.04	NA
		06/26/95	NA	0.00	8.42	24.95	NA
		07/24/95	18.90	0.01	18.91	14.47	NA
		08/28/95	19.13	0.12	19.25	14.22	NA
		09/25/95	19.27	0.25	19.52	14.06	NA
		10/23/95	19.32	0.17	19.49	14.02	NA
		11/27/95	18.50	0.10	18.60	14.85	0.03
	34.20	12/28/95	18.43	0.05	18.48	15.76	0.07
		01/22/96	15.57	0.08	15.65	18.62	0.02
		02/26/96	13.55	0.15	13.70	20.63	NA
		04/22/96	17.82	0.08	17.90	16.37	0.02
		05/28/96	16.52	0.01	16.53	17.68	NA
		06/24/96	18.10	0.01	18.11	16.10	NA
		07/22/96	19.39	0.03	19.42	14.81	NA
		09/23/96	20.04	0.04	20.08	14.15	NA
		10/28/96	18.15	0.07	18.22	16.04	NA
		01/31/97	NP	0.00	18.01	16.19	0.00
		04/21/97	NP	0.00	18.61	15.59	0.00
		07/28/97	NP	0.00	19.38	14.82	0.00
		10/15/97	NP	0.00	19.87	14.33	0.00
		01/19/98	NM	0.00	NM	0.00	0.00
						SPH Recovered to Date:	**0.14**
U-5A	33.77	03/28/95	4.73	1.47	6.20	28.82	NA
		04/24/95	6.02	0.39	6.41	27.69	NA
		05/22/95	6.52	0.00	NM	0.00	NA
		06/26/95	6.97	0.00	NM	0.00	0.50
		07/24/95	9.86	0.37	10.23	23.85	NA
		08/28/95	9.50	0.45	9.95	24.20	0.01
		09/25/95	NA	0.00	15.61	18.16	NA
		10/23/95	15.30	0.20	15.50	18.44	NA
		11/27/95	6.34	0.08	6.42	27.42	0.36
		12/28/95	5.97	0.42	6.39	27.74	0.25
		01/22/96	6.43	0.07	6.50	27.33	0.07
		02/26/96	8.50	0.03	8.53	25.27	0.08
		04/22/96	9.35	0.05	9.40	24.41	0.05
		06/24/96	5.79	0.32	6.11	27.93	0.15
		07/22/96	6.47	0.07	6.54	27.29	0.05
		08/23/96	7.21	0.89	8.10	26.43	0.32

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco				
U-5A	33.77	09/23/96	8.58	1.31	9.89	24.99	NA
		10/28/96	20.04	0.03	20.07	13.73	NA
		01/31/97	4.59	0.27	4.86	29.14	10.00
		04/21/97	5.33	0.04	5.37	28.43	NA
		07/25/97	6.89	0.06	6.95	26.87	1.10
		10/15/97	7.88	0.01	7.89	25.89	0.50
		01/19/98	NP	0.00	6.51	27.26	0.00
						SPH Recovered to Date:	**13.44**
						Tosco total SPH Recovered to Date:	**142.93**
						Complete total SPH Recovered to Date:	**411.16**

Notes:

SPH = Separate-phase hydrocarbon
NP = No product observed this gauging date
NA = Not available
NM = Not measured
SPH recovered to 10/28/96 has been a cumulative process on a weekly to monthly basis and added together to get the sum.
* = Groundwater elevation (GWE) is corrected for the presence of SPH using:
GWE = toc - (DTW - (SPH thickness x Specific gravity of SPH)) Specific gravity used is 0.85
** = Total SPH recovered to date.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 SIXTH AVENUE
SEATTLE, WA 98101

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File #: **11.3.234.1 V.13 (Pt.5)**

Site Name: **PORSF - Portland Harbor**

104(e) Response Phillips Oil Co. (Conoco Phillips-Tosco-Unocal):
Groundwater Elevation Contour map, Figure 2; Bate # COPPOR00005236
Map Located at the Superfund Records Center.
08/19/2008

ATTACHMENT A

SAMPLING PROTOCAL

CERTIFIED ANALYTICAL REPORTS

CHAIN-OF-CUSTODY DOCUMENTATION

ATTACHMENT A

Sampling Protocol

The groundwater sampling procedure employed by PEG consists of first measuring depth to water in the well and separate-phase hydrocarbon level and thickness (if present) using a Keck KIR-89 oil/water interface probe. Each well was then purged of a minimum of three casing volumes of water (or until dry) by double diaphragm pump using rigid polyvinyl chloride (PVC) pipe "stinger" system. The stinger system was decontaminated prior to and between uses with an Alconox™-water wash and a water rinse. Groundwater samples were collected using single-use, disposable polyethylene (PE) bailers after the wells recovered to at least 60 percent of the pre-purge static water level. The samples were placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported at 4°C to the selected analytical laboratory. Dissolved metal samples were filtered in the field using a 0.45-micron filter capsule, disposable Tygon® tubing and a peristaltic pump. Purge water was disposed of using facility treatment systems.

COPPOR00005238

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled:	1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received:	1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported:	2/9/98 17:48

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
B-7	P801287-01	Water	1/21/98
B-9	P801287-02	Water	1/21/98
B-10	P801287-03	Water	1/21/98
B-11	P801287-04	Water	1/21/98
B-28	P801287-05	Water	1/21/98
CR-8	P801287-06	Water	1/21/98
CR-11	P801287-07	Water	1/21/98
TB-1	P801287-08	Water	1/21/98

North Creek Analytical, Inc.

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.

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled: 1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 17:48

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-7			P801287-01				Water	
Benzene	0180413	1/23/98	1/23/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*107*	%	
B-9			P801287-02				Water	
Benzene	0180413	1/23/98	1/23/98		0.500	**10.2**	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*112*	%	
B-10			P801287-03				Water	
Benzene	0180409	1/22/98	1/23/98		2.50	**160**	ug/l	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	ND	"	
Xylenes (total)	"	"	"		5.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*94.2*	%	
B-11			P801287-04				Water	
Benzene	0180413	1/23/98	1/23/98		2.50	**183**	ug/l	
Toluene	"	"	"		2.50	**5.20**	"	
Ethylbenzene	"	"	"		2.50	**3.00**	"	
Xylenes (total)	"	"	"		5.00	**9.85**	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*113*	%	
B-28			P801287-05				Water	
Benzene	0180409	1/22/98	1/23/98		0.500	**1.25**	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*94.2*	%	
CR-8			P801287-06				Water	
Benzene	0180413	1/23/98	1/23/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled: 1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 17:48

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CR-8 (continued)			P801287-06				Water	
Xylenes (total)	0180413	1/23/98	1/23/98		1.00	ND	ug/l	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*107*	%	
CR-11			P801287-07				Water	
Benzene	0180409	1/22/98	1/23/98		1.00	97.4	ug/l	
Toluene	"	"	"		1.00	2.00	"	
Ethylbenzene	"	"	"		1.00	2.98	"	
Xylenes (total)	"	"	"		2.00	4.30	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*102*	%	
TB-1			P801287-08				Water	
Benzene	0180409	1/22/98	1/23/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*96.0*	%	

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Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled: 1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 17:48

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-7			P801287-01				Water	
Arsenic	0180505	1/27/98	1/30/98	EPA 6020	0.00100	**0.0244**	mg/l	
Barium	"	"	1/29/98	EPA 6020	0.00200	**0.0911**	"	
Cadmium	"	"	1/30/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00260**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00240**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000200	ND	"	
B-9			P801287-02				Water	
Arsenic	0180505	1/27/98	1/30/98	EPA 6020	0.00100	**0.0277**	mg/l	
Barium	"	"	1/29/98	EPA 6020	0.00200	**0.0993**	"	
Cadmium	"	"	1/30/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00570**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00400**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000200	ND	"	
B-10			P801287-03				Water	
Arsenic	0180505	1/27/98	1/30/98	EPA 6020	0.00100	**0.117**	mg/l	
Barium	"	"	1/29/98	EPA 6020	0.00200	**0.920**	"	
Cadmium	"	"	1/30/98	EPA 6020	0.00100	**0.00220**	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.340**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.118**	"	
Selenium	"	"	"	EPA 6020	0.00100	**0.00800**	"	
Silver	"	"	"	EPA 6020	0.00100	**0.00100**	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000420	ND	"	I
B-11			P801287-04				Water	
Arsenic	0180505	1/27/98	1/30/98	EPA 6020	0.00100	0.0371	mg/l	
Barium	"	"	1/29/98	EPA 6020	0.00200	0.423	"	
Cadmium	"	"	1/30/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0629	"	
Lead	"	"	"	EPA 6020	0.00100	0.0307	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00150	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000420	ND	"	I

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Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled: 1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 17:48

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-28			P801287-05				Water	
Arsenic	0180505	1/27/98	1/30/98	EPA 6020	0.00100	0.00790	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.278	"	
Cadmium	"	"	"	EPA 6020	0.00100	0.00990	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0380	"	
Lead	"	"	"	EPA 6020	0.00100	0.0320	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000200	0.000250	"	
CR-8			P801287-06				Water	
Arsenic	0180505	1/27/98	1/30/98	EPA 6020	0.00100	0.0308	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0678	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00320	"	
Lead	"	"	"	EPA 6020	0.00100	0.00630	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000200	0.000290	"	
CR-11			P801287-07				Water	
Arsenic	0180505	1/27/98	1/30/98	EPA 6020	0.00100	0.0526	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.141	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00180	"	
Lead	"	"	"	EPA 6020	0.00100	0.00310	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00240	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000200	0.000440	"	

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

MS
Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled: 1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 17:48

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-7			P801287-01				Water	1
Acenaphthene	0180494	1/27/98	2/4/98		2.00	3.17	ug/l	
Acenaphthylene	"	"	"		2.00	ND	"	
Anthracene	"	"	"		2.00	ND	"	
Benzo (a) anthracene	"	"	2/5/98		0.200	ND	"	
Benzo (a) pyrene	"	"	"		0.200	ND	"	
Benzo (b) fluoranthene	"	"	"		0.200	ND	"	
Benzo (ghi) perylene	"	"	"		0.200	ND	"	
Benzo (k) fluoranthene	"	"	"		0.200	ND	"	
Chrysene	"	"	"		0.200	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.400	ND	"	
Fluoranthene	"	"	2/4/98		2.00	ND	"	
Fluorene	"	"	"		2.00	11.1	"	
Indeno (1,2,3-cd) pyrene	"	"	2/5/98		0.200	ND	"	
Naphthalene	"	"	2/4/98		2.00	ND	"	
Phenanthrene	"	"	"		2.00	4.92	"	
Pyrene	"	"	2/5/98		0.200	0.448	"	
Surrogate: 2-Fluorobiphenyl	"	"	*2/4/98*	*43.0-116*		*NR*	%	*2*
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*NR*	"	*2*
Surrogate: p-Terphenyl-d14	"	"	*2/5/98*	*33.0-141*		*47.5*	"	
B-9			P801287-02				Water	1
Acenaphthene	0180494	1/27/98	2/5/98		0.200	2.42	ug/l	
Acenaphthylene	"	"	"		1.00	ND	"	
Anthracene	"	"	"		0.200	ND	"	
Benzo (a) anthracene	"	"	"		0.200	ND	"	
Benzo (a) pyrene	"	"	"		0.200	ND	"	
Benzo (b) fluoranthene	"	"	"		0.200	ND	"	
Benzo (ghi) perylene	"	"	"		0.200	ND	"	
Benzo (k) fluoranthene	"	"	"		0.200	ND	"	
Chrysene	"	"	"		0.200	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.400	ND	"	
Fluoranthene	"	"	"		0.200	ND	"	
Fluorene	"	"	"		0.200	9.19	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.200	ND	"	
Naphthalene	"	"	"		1.00	ND	"	
Phenanthrene	"	"	"		0.200	1.92	"	
Pyrene	"	"	"		0.200	0.375	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*58.9*	%	

North Creek Analytical, Inc.

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled: 1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 17:48

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-9 (continued)			P801287-02				Water	1
Surrogate: Nitrobenzene-d5	*0180494*	*1/27/98*	*2/5/98*	*35.0-114*		*109*	%	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*37.2*	"	
B-10			P801287-03				Water	1
Acenaphthene	0180494	1/27/98	2/6/98		2.00	7.64	ug/l	
Acenaphthylene	"	"	"		4.00	ND	"	
Anthracene	"	"	"		2.00	ND	"	
Benzo (a) anthracene	"	"	2/5/98		0.200	0.299	"	
Benzo (a) pyrene	"	"	"		0.200	ND	"	
Benzo (b) fluoranthene	"	"	"		0.200	ND	"	
Benzo (ghi) perylene	"	"	"		0.200	ND	"	
Benzo (k) fluoranthene	"	"	"		0.200	ND	"	
Chrysene	"	"	"		0.200	0.594	"	
Dibenzo (a,h) anthracene	"	"	"		0.400	ND	"	
Fluoranthene	"	"	2/6/98		2.00	ND	"	
Fluorene	"	"	"		2.00	33.7	"	
Indeno (1,2,3-cd) pyrene	"	"	2/5/98		0.200	ND	"	
Naphthalene	"	"	2/6/98		2.00	ND	"	
Phenanthrene	"	"	"		2.00	51.0	"	
Pyrene	"	"	2/5/98		0.200	3.41	"	
Surrogate: 2-Fluorobiphenyl	"	"	*2/6/98*	*43.0-116*		*NR*	%	*2*
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*NR*	"	*2*
Surrogate: p-Terphenyl-d14	"	"	*2/5/98*	*33.0-141*		*43.7*	"	
B-11			P801287-04				Water	1
Acenaphthene	0180494	1/27/98	2/5/98		0.200	1.41	ug/l	
Acenaphthylene	"	"	"		0.400	ND	"	
Anthracene	"	"	"		0.200	ND	"	
Benzo (a) anthracene	"	"	"		0.200	ND	"	
Benzo (a) pyrene	"	"	"		0.200	ND	"	
Benzo (b) fluoranthene	"	"	"		0.200	ND	"	
Benzo (ghi) perylene	"	"	"		0.200	ND	"	
Benzo (k) fluoranthene	"	"	"		0.200	ND	"	
Chrysene	"	"	"		0.200	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.400	ND	"	
Fluoranthene	"	"	"		0.200	0.231	"	
Fluorene	"	"	"		0.200	2.54	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.200	ND	"	

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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BOTHELL • (425) 481-9200 • FAX 485-2992
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Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled: 1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 17:48

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-11 (continued)			P801287-04				Water	1
Naphthalene	0180494	1/27/98	2/5/98		1.20	ND	ug/l	
Phenanthrene	"	"	"		0.200	2.23	"	
Pyrene	"	"	"		0.200	0.498	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*67.5*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*NR*	"	3
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*47.1*	"	
B-28			P801287-05				Water	
Acenaphthene	0180494	1/27/98	2/4/98		0.100	ND	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*81.6*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*92.1*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*101*	"	
CR-8			P801287-06				Water	
Acenaphthene	0180494	1/27/98	2/5/98		0.100	ND	ug/l	
Acenaphthylene	"	"	"		0.100	0.124	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	0.164	"	
Benzo (a) pyrene	"	"	"		0.100	0.335	"	
Benzo (b) fluoranthene	"	"	"		0.100	0.196	"	
Benzo (ghi) perylene	"	"	"		0.100	0.420	"	
Benzo (k) fluoranthene	"	"	"		0.100	0.175	"	
Chrysene	"	"	"		0.100	0.215	"	

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled: 1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 17:48

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CR-8 (continued)			P801287-06				Water	
Dibenzo (a,h) anthracene	0180494	1/27/98	2/5/98		0.200	ND	ug/l	
Fluoranthene	"	"	"		0.100	0.264	"	
Fluorene	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	0.255	"	
Naphthalene	"	"	"		0.100	ND	"	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	0.510	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*93.7*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*120*	"	*4*
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*110*	"	
CR-11			P801287-07				Water	
Acenaphthene	0180494	1/27/98	2/5/98		0.100	0.312	ug/l	
Acenaphthylene	"	"	"		0.200	ND	"	5
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	0.943	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.700	ND	"	5
Phenanthrene	"	"	"		0.100	0.502	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*77.6*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*113*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*85.2*	"	

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

MS
Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled: 1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 17:48

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180409	**Date Prepared: 1/22/98**					**Extraction Method: EPA 5030**				
Blank	**0180409-BLK1**									
Benzene	1/22/98			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*53.6*	"	*75.0-120*	*107*			
LCS	**0180409-BS2**									
Benzene	1/22/98	20.0		20.2	ug/l	67.0-130	101			
Toluene	"	20.0		21.4	"	75.0-126	107			
Ethylbenzene	"	20.0		21.5	"	76.0-124	108			
Xylenes (total)	"	60.0		56.6	"	75.0-126	94.3			
Surrogate: 4-BFB	"	*50.0*		*54.4*	"	*75.0-120*	*109*			
Matrix Spike	**0180409-MS1**		**P801275-01**							
Benzene	1/22/98	20.0	18.3	36.0	ug/l	67.0-130	88.5			
Toluene	"	20.0	ND	20.0	"	75.0-126	100			
Ethylbenzene	"	20.0	2.93	24.4	"	76.0-124	107			
Xylenes (total)	"	60.0	4.62	69.9	"	75.0-126	109			
Surrogate: 4-BFB	"	*50.0*		*52.3*	"	*75.0-120*	*105*			
Matrix Spike Dup	**0180409-MSD1**		**P801275-01**							
Benzene	1/22/98	20.0	18.3	35.0	ug/l	67.0-130	83.5	13.0	5.81	
Toluene	"	20.0	ND	19.4	"	75.0-126	97.0	13.0	3.05	
Ethylbenzene	"	20.0	2.93	24.0	"	76.0-124	105	15.0	1.89	
Xylenes (total)	"	60.0	4.62	68.9	"	75.0-126	107	13.0	1.85	
Surrogate: 4-BFB	"	*50.0*		*49.3*	"	*75.0-120*	*98.6*			
Batch: 0180413	**Date Prepared: 1/23/98**					**Extraction Method: EPA 5030**				
Blank	**0180413-BLK1**									
Benzene	1/23/98			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*53.0*	"	*75.0-120*	*106*			
LCS	**0180413-BS2**									
Benzene	1/23/98	20.0		18.6	ug/l	67.0-130	93.0			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

MAS
Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled: 1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 17:48

BTEX per EPA Method 8020A Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	0180413-BS2									
Toluene	1/23/98	20.0		19.8	ug/l	75.0-126	99.0			
Ethylbenzene	"	20.0		20.6	"	76.0-124	103			
Xylenes (total)	"	60.0		64.1	"	75.0-126	107			
Surrogate: 4-BFB	"	*50.0*		*55.4*	"	*75.0-120*	*111*			

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Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled: 1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 17:48

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180466	**Date Prepared: 2/5/98**					**Extraction Method: Metals**				
Blank	**0180466-BLK1**									
Mercury	2/5/98			ND	mg/l	0.000200				
LCS	**0180466-BS1**									
Mercury	2/5/98	0.00500		0.00520	mg/l	80.0-120	104			
Duplicate	**0180466-DUP1**		**P801308-01**							
Mercury	2/5/98		ND	ND	mg/l			20.0		
Matrix Spike	**0180466-MS1**		**P801308-01**							
Mercury	2/5/98	0.00500	ND	0.00520	mg/l	75.0-125	104			
Matrix Spike	**0180466-MS2**		**P801257-01**							
Mercury	2/5/98	0.00500	0.000200	0.00500	mg/l	75.0-125	96.0			
Batch: 0180505	**Date Prepared: 1/27/98**					**Extraction Method: EPA 200/3005**				
Blank	**0180505-BLK1**									
Arsenic	1/29/98			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	"			ND	"	0.00100				
LCS	**0180505-BS1**									
Arsenic	1/29/98	0.100		0.105	mg/l	80.0-120	105			
Barium	"	0.100		0.100	"	80.0-120	100			
Cadmium	"	0.100		0.102	"	80.0-120	102			
Chromium	"	0.100		0.108	"	80.0-120	108			
Lead	"	0.100		0.102	"	80.0-120	102			
Selenium	"	0.100		0.105	"	75.0-115	105			
Silver	"	0.100		0.0945	"	80.0-120	94.5			
Duplicate	**0180505-DUP1**		**P801215-01**							
Arsenic	1/29/98		0.00320	0.00340	mg/l			20.0	6.06	
Barium	"		0.0113	0.0115	"			20.0	1.75	
Cadmium	"		ND	ND	"			20.0		

North Creek Analytical, Inc.

Refer to end of report for text of notes and definitions.

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled: 1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 17:48

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	**0180505-DUP1**		**P801215-01**							
Chromium	1/29/98		ND	ND	mg/l			20.0		
Lead	"		0.00770	0.00770	"			20.0	0	
Selenium	"		0.00470	0.00480	"			20.0	2.11	
Silver	"		ND	ND	"			20.0		
Matrix Spike	**0180505-MS1**		**P801215-01**							
Arsenic	1/29/98	0.100	0.00320	0.111	mg/l	75.0-125	108			
Barium	"	0.100	0.0113	0.112	"	75.0-125	101			
Cadmium	"	0.100	ND	0.101	"	75.0-125	101			
Chromium	"	0.100	ND	0.114	"	75.0-125	114			
Lead	"	0.100	0.00770	0.103	"	75.0-125	95.3			
Selenium	"	0.100	0.00470	0.104	"	75.0-125	99.3			
Silver	"	0.100	ND	0.0921	"	75.0-125	92.1			
Matrix Spike	**0180505-MS2**		**P801310-03**							
Arsenic	1/30/98	0.100	0.0582	0.165	mg/l	75.0-125	107			
Barium	1/29/98	0.100	0.0906	0.191	"	75.0-125	100			
Cadmium	1/30/98	0.100	ND	0.100	"	75.0-125	100			
Chromium	"	0.100	0.00320	0.119	"	75.0-125	116			
Lead	1/29/98	0.100	0.0387	0.138	"	75.0-125	99.3			
Selenium	1/30/98	0.100	0.00140	0.103	"	75.0-125	102			
Silver	"	0.100	ND	0.0937	"	75.0-125	93.7			

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SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled: 1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 17:48

Polynuclear Aromatic Compounds per EPA 8270M SIM/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180494	**Date Prepared: 1/27/98**					**Extraction Method: EPA 3520/600 Series**				
Blank	**0180494-BLK1**									
Acenaphthene	2/4/98			ND	ug/l	0.100				
Acenaphthylene	"			ND	"	0.100				
Anthracene	"			ND	"	0.100				
Benzo (a) anthracene	"			ND	"	0.100				
Benzo (a) pyrene	"			ND	"	0.100				
Benzo (b) fluoranthene	"			ND	"	0.100				
Benzo (ghi) perylene	"			ND	"	0.100				
Benzo (k) fluoranthene	"			ND	"	0.100				
Chrysene	"			ND	"	0.100				
Dibenzo (a,h) anthracene	"			ND	"	0.200				
Fluoranthene	"			ND	"	0.100				
Fluorene	"			ND	"	0.100				
Indeno (1,2,3-cd) pyrene	"			ND	"	0.100				
Naphthalene	"			ND	"	0.100				
Phenanthrene	"			ND	"	0.100				
Pyrene	"			ND	"	0.100				
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.62*	"	*43.0-116*	*105*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.62*	"	*35.0-114*	*105*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*3.24*	"	*33.0-141*	*130*			
LCS	**0180494-BS1**									
Acenaphthylene	2/4/98	5.00		5.28	ug/l	50.0-150	106			
Benzo (k) fluoranthene	"	5.00		5.60	"	50.0-150	112			
Pyrene	"	5.00		5.39	"	50.0-150	108			
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.50*	"	*43.0-116*	*100*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.63*	"	*35.0-114*	*105*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*2.89*	"	*33.0-141*	*116*			
LCS Dup	**0180494-BSD1**									
Acenaphthylene	2/5/98	5.00		5.32	ug/l	50.0-150	106	60.0	0	
Benzo (k) fluoranthene	"	5.00		4.27	"	50.0-150	85.4	60.0	27.0	
Pyrene	"	5.00		3.82	"	50.0-150	76.4	60.0	34.3	
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.44*	"	*43.0-116*	*97.6*			
Surrogate: Nitrobenzene-d5	*2/4/98*	*2.50*		*2.64*	"	*35.0-114*	*106*			
Surrogate: p-Terphenyl-d14	*2/5/98*	*2.50*		*2.10*	"	*33.0-141*	*84.0*			

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**Refer to end of report for text of notes and definitions.*

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	CHEVRON WILLBRIDGE	Sampled: 1/21/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/22/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 17:48

Notes and Definitions

#	Note
1	Reporting limits raised due to matrix interference.
2	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
3	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
4	Outside of acceptance criteria. Insufficient sample for re-extract purposes.
5	The reporting limit for this analyte was raised due to matrix interference.
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
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical, Inc.

Mary A. Fritzmann Smith, Project Manager

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202 ✓

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PS01287

CHEVRON INFORMATION

CHEVRON Facility #: Willbridge Facility
Facility Address: 5531 NW Doane
City, State, ZIP: Portland, OR
CHEVRON Contact Name: A. Dockstader
CHEVRON Telephone #:
Laboratory Release #:

CONSULTANT INFORMATION

Name: P.E.G. Consultant Project #: 1115-200.2A
Address: Portland, OR
Phone: 639-6305 Fax:
Project Manager: K. Freeman Consultant Project #:
Sample Collection by: CRF/JSC Airbill #:

Turnaround Times

Standard Analyses (DAYS): ~~10~~
RUSH Analyses (HOURS): 24 48
RUSH Analyses (DAYS): 5

O Oregon O Washington O Alaska O Other - Hydrocarbon Methods

SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W,S,O,A)	# OF CONTAINERS	TPH-HCID	TPH-Gas	BTEX (EPA 8020 Mod.)	TPH-Gas + BTEX	TPH-Diesel	TPH-Diesel Extended	TPH-418.1	Halogen. Volatiles (EPA 8010)	Aromatic Volatiles (EPA 8020)	Pesticides/PCBs or PCBs Only	GCMS Volatiles (EPA 8240/8260)	GCMS Semi Vols. (EPA 8270)	PAHs by HPLC (EPA 8310) SEE BELOW	Lead: Total or Dissolved	TCLP Metals (8) MEWS-TOTAL RCRA 8	NCA Sample Number	REMARKS
1. B-7	1-21-98	W	4			✓										X		✓		PAH's by
2. B-9						✓										X		✓		8270 SIMS
3. B-10						✓										X		✓		Method
4. B-11						✓										X		✓		
5. B-28						✓										X		✓		
6. CR-8						✓										X		✓		
7. CR-11			↓			✓										X		✓		
8. TB-1	↓	↓	2			✓														
9.																				
10.																				

per Kevin 1/22/98

Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time
1.	P.E.G.	1-22-98 1120		NCA	1-22-98 1120
2.	NCA	1-22-98 1220	Kiki Cline	NCA	1/22/98 1220
3.					

REPORTS:
Level 1 ☐
Level 2 ☐

SAMPLE PRESERVATION (Iced)
Yes ✓
No

Fax Copy of Lab Report & COC to CHEVRON:
Yes
No ✓

Page 1 of 1

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Environmental Laboratory Services

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON #61001868, Portland, OR	Sampled:	1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received:	1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported:	2/9/98 18:38

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
B-30	P801311-01	Water	1/22/98
B-14	P801311-02	Water	1/22/98
CR-9	P801311-03	Water	1/22/98
B-30-D	P801311-04	Water	1/22/98

North Creek Analytical, Inc.

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.

Mary B. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	CHEVRON #61001868, Portland, OR	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:38

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-30			P801311-01				Water	
Benzene	0180450	1/26/98	1/26/98		0.500	**9.84**	ug/l	
Toluene	"	"	"		0.500	**1.59**	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*99.2*	%	
B-14			P801311-02				Water	
Benzene	0180486	1/27/98	1/28/98		5.00	**696**	ug/l	
Toluene	"	"	"		5.00	**66.3**	"	
Ethylbenzene	"	"	"		5.00	**327**	"	
Xylenes (total)	"	"	"		10.0	**127**	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*106*	%	
CR-9			P801311-03				Water	
Benzene	0180450	1/26/98	1/26/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*93.4*	%	
B-30-D			P801311-04				Water	
Benzene	0180450	1/26/98	1/26/98		0.500	**9.37**	ug/l	
Toluene	"	"	"		0.500	**1.57**	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*96.6*	%	

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Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:38

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-30			P801311-01				Water	
Arsenic	0180505	1/27/98	1/30/98	EPA 6020	0.00100	0.00860	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.176	"	
Cadmium	"	"	"	EPA 6020	0.00100	0.0166	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00720	"	
Lead	"	"	"	EPA 6020	0.00100	0.0135	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000200	0.000810	"	
B-14			P801311-02				Water	
Arsenic	0180505	1/27/98	1/30/98	EPA 6020	0.00100	0.0414	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.241	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0295	"	
Lead	"	"	"	EPA 6020	0.00100	0.0326	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00120	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000420	0.000609	"	1
CR-9			P801311-03				Water	
Arsenic	0180505	1/27/98	1/30/98	EPA 6020	0.00100	0.00100	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0237	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000200	ND	"	
B-30-D			P801311-04				Water	
Arsenic	0180505	1/27/98	1/30/98	EPA 6020	0.00100	0.00900	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.164	"	
Cadmium	"	"	"	EPA 6020	0.00100	0.0157	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00720	"	
Lead	"	"	"	EPA 6020	0.00100	0.0121	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000200	0.000650	"	

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Refer to end of report for text of notes and definitions.

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Pacific Environmental Group - OR	Project:	CHEVRON #61001868, Portland, OR	Sampled: 1/22/98
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Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:38

Dissolved Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-30			P801311-01				Water	
Arsenic	0180491	1/26/98	1/29/98	EPA 6020	0.00100	0.00730	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0664	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180467	"	2/5/98	EPA 7470A	0.000200	0.000460	"	
B-14			P801311-02				Water	
Arsenic	0180491	1/26/98	1/29/98	EPA 6020	0.00100	0.0340	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0680	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	0.00170	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180467	"	2/5/98	EPA 7470A	0.000200	ND	"	
CR-9			P801311-03				Water	
Arsenic	0180491	1/26/98	1/29/98	EPA 6020	0.00100	ND	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0240	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180467	"	2/5/98	EPA 7470A	0.000200	ND	"	
B-30-D			P801311-04				Water	
Arsenic	0180491	1/26/98	1/29/98	EPA 6020	0.00100	0.00710	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0691	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180467	"	2/5/98	EPA 7470A	0.000200	0.000330	"	

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Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-30			P801311-01				Water	
Acenaphthene	0180513	1/28/98	2/5/98		0.100	ND	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*64.1*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*94.5*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*58.6*	"	
B-14			P801311-02				Water	
Acenaphthene	0180513	1/28/98	2/5/98		0.100	1.36	ug/l	
Acenaphthylene	"	"	"		0.500	ND	"	I
Anthracene	"	"	"		0.100	0.258	"	
Benzo (a) anthracene	"	"	"		0.100	0.295	"	
Benzo (a) pyrene	"	"	"		0.100	0.124	"	
Benzo (b) fluoranthene	"	"	"		0.100	0.103	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	0.110	"	
Chrysene	"	"	"		0.100	0.266	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	0.752	"	
Fluorene	"	"	"		0.100	4.06	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		2.00	55.6	"	
Phenanthrene	"	"	"		0.100	3.41	"	
Pyrene	"	"	"		0.100	1.25	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*66.4*	%	

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

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Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:38

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-14 (continued)			**P801311-02**				**Water**	
Surrogate: Nitrobenzene-d5	*0180513*	*1/28/98*	*2/5/98*	*35.0-114*		*113*	*%*	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*58.0*	"	
CR-9			**P801311-03**				**Water**	
Acenaphthene	0180513	1/28/98	2/5/98		0.100	ND	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*96.6*	*%*	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*120*	"	*2*
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*113*	"	
B-30-D			**P801311-04**				**Water**	
Acenaphthene	0180513	1/28/98	2/5/98		0.100	ND	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	

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Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-30-D (continued)			P801311-04				Water	
Naphthalene	0180513	1/28/98	2/5/98		0.100	ND	ug/l	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*86.1*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*102*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*88.6*	"	

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BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180450	**Date Prepared: 1/26/98**					**Extraction Method: EPA 5030**				
Blank	**0180450-BLK1**									
Benzene	1/26/98			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*52.1*	"	*75.0-120*	*104*			
LCS	**0180450-BS2**									
Benzene	1/26/98	20.0		19.9	ug/l	67.0-130	99.5			
Toluene	"	20.0		21.9	"	75.0-126	109			
Ethylbenzene	"	20.0		22.6	"	76.0-124	113			
Xylenes (total)	"	60.0		69.8	"	75.0-126	116			
Surrogate: 4-BFB	"	*50.0*		*54.0*	"	*75.0-120*	*108*			
Matrix Spike	**0180450-MS1**		**P801311-01**							
Benzene	1/26/98	20.0	9.84	23.9	ug/l	67.0-130	70.3			
Toluene	"	20.0	1.59	19.1	"	75.0-126	87.6			
Ethylbenzene	"	20.0	ND	18.7	"	76.0-124	93.5			
Xylenes (total)	"	60.0	ND	57.7	"	75.0-126	96.2			
Surrogate: 4-BFB	"	*50.0*		*49.9*	"	*75.0-120*	*99.8*			
Matrix Spike Dup	**0180450-MSD1**		**P801311-01**							
Benzene	1/26/98	20.0	9.84	25.4	ug/l	67.0-130	77.8	13.0	10.1	
Toluene	"	20.0	1.59	20.7	"	75.0-126	95.6	13.0	8.73	
Ethylbenzene	"	20.0	ND	20.4	"	76.0-124	102	15.0	8.70	
Xylenes (total)	"	60.0	ND	63.5	"	75.0-126	106	13.0	9.69	
Surrogate: 4-BFB	"	*50.0*		*50.3*	"	*75.0-120*	*101*			
Batch: 0180486	**Date Prepared: 1/27/98**					**Extraction Method: EPA 5030**				
Blank	**0180486-BLK1**									
Benzene	1/27/98			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*55.5*	"	*75.0-120*	*111*			
LCS	**0180486-BS2**									
Benzene	1/27/98	20.0		18.0	ug/l	67.0-130	90.0			

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	CHEVRON #61001868, Portland, OR	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:38

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	0180486-BS2									
Toluene	1/27/98	20.0		18.8	ug/l	75.0-126	94.0			
Ethylbenzene	"	20.0		18.8	"	76.0-124	94.0			
Xylenes (total)	"	60.0		57.9	"	75.0-126	96.5			
Surrogate: 4-BFB	"	*50.0*		*52.9*	"	*75.0-120*	*106*			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	CHEVRON #61001868, Portland, OR	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:38

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180466	**Date Prepared: 2/5/98**				**Extraction Method: Metals**					
Blank	**0180466-BLK1**									
Mercury	2/5/98			ND	mg/l	0.000200				
LCS	**0180466-BS1**									
Mercury	2/5/98	0.00500		0.00520	mg/l	80.0-120	104			
Duplicate	**0180466-DUP1**		**P801308-01**							
Mercury	2/5/98		ND	ND	mg/l			20.0		
Matrix Spike	**0180466-MS1**		**P801308-01**							
Mercury	2/5/98	0.00500	ND	0.00520	mg/l	75.0-125	104			
Matrix Spike	**0180466-MS2**		**P801257-01**							
Mercury	2/5/98	0.00500	0.000200	0.00500	mg/l	75.0-125	96.0			
Batch: 0180505	**Date Prepared: 1/27/98**				**Extraction Method: EPA 200/3005**					
Blank	**0180505-BLK1**									
Arsenic	1/29/98			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	"			ND	"	0.00100				
LCS	**0180505-BS1**									
Arsenic	1/29/98	0.100		0.105	mg/l	80.0-120	105			
Barium	"	0.100		0.100	"	80.0-120	100			
Cadmium	"	0.100		0.102	"	80.0-120	102			
Chromium	"	0.100		0.108	"	80.0-120	108			
Lead	"	0.100		0.102	"	80.0-120	102			
Selenium	"	0.100		0.105	"	75.0-115	105			
Silver	"	0.100		0.0945	"	80.0-120	94.5			
Duplicate	**0180505-DUP1**		**P801215-01**							
Arsenic	1/29/98		0.00320	0.00340	mg/l			20.0	6.06	
Barium	"		0.0113	0.0115	"			20.0	1.75	
Cadmium	"		ND	ND	"			20.0		

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Refer to end of report for text of notes and definitions.

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON #61001868, Portland, OR	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:38

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	**0180505-DUP1**		**P801215-01**							
Chromium	1/29/98		ND	ND	mg/l			20.0		
Lead	"		0.00770	0.00770	"			20.0	0	
Selenium	"		0.00470	0.00480	"			20.0	2.11	
Silver	"		ND	ND	"			20.0		
Matrix Spike	**0180505-MS1**		**P801215-01**							
Arsenic	1/29/98	0.100	0.00320	0.111	mg/l	75.0-125	108			
Barium	"	0.100	0.0113	0.112	"	75.0-125	101			
Cadmium	"	0.100	ND	0.101	"	75.0-125	101			
Chromium	"	0.100	ND	0.114	"	75.0-125	114			
Lead	"	0.100	0.00770	0.103	"	75.0-125	95.3			
Selenium	"	0.100	0.00470	0.104	"	75.0-125	99.3			
Silver	"	0.100	ND	0.0921	"	75.0-125	92.1			
Matrix Spike	**0180505-MS2**		**P801310-03**							
Arsenic	1/30/98	0.100	0.0582	0.165	mg/l	75.0-125	107			
Barium	1/29/98	0.100	0.0906	0.191	"	75.0-125	100			
Cadmium	1/30/98	0.100	ND	0.100	"	75.0-125	100			
Chromium	"	0.100	0.00320	0.119	"	75.0-125	116			
Lead	1/29/98	0.100	0.0387	0.138	"	75.0-125	99.3			
Selenium	1/30/98	0.100	0.00140	0.103	"	75.0-125	102			
Silver	"	0.100	ND	0.0937	"	75.0-125	93.7			

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Pacific Environmental Group - OR	Project:	CHEVRON #61001868, Portland, OR	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:38

Dissolved Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180467	**Date Prepared: 1/26/98**				**Extraction Method: EPA 7470**					
Blank	**0180467-BLK1**									
Mercury	2/5/98			ND	mg/l	0.000200				
LCS	**0180467-BS1**									
Mercury	2/5/98	0.00500		0.00460	mg/l	80.0-120	92.0			
Duplicate	**0180467-DUP1**		**P801310-01**							
Mercury	2/5/98		ND	0.000510	mg/l			20.0		3
Matrix Spike	**0180467-MS1**		**P801310-01**							
Mercury	2/5/98	0.00500	ND	0.00500	mg/l	75.0-125	100			
Batch: 0180491	**Date Prepared: 1/26/98**				**Extraction Method: EPA 200/3005**					
Blank	**0180491-BLK1**									
Arsenic	1/29/98			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	"			ND	"	0.00100				
LCS	**0180491-BS1**									
Arsenic	1/29/98	0.100		0.103	mg/l	80.0-120	103			
Barium	"	0.100		0.101	"	80.0-120	101			
Cadmium	"	0.100		0.102	"	80.0-120	102			
Chromium	"	0.100		0.107	"	80.0-120	107			
Lead	"	0.100		0.0941	"	80.0-120	94.1			
Selenium	"	0.100		0.102	"	75.0-105	102			
Silver	"	0.100		0.0953	"	80.0-120	95.3			
Duplicate	**0180491-DUP1**		**P801295-01**							
Arsenic	1/29/98		0.00120	0.00150	mg/l			20.0	22.2	3
Barium	"		0.111	0.109	"			20.0	1.82	
Cadmium	"		ND	ND	"			20.0		
Chromium	"		ND	ND	"			20.0		
Lead	"		0.00450	0.00430	"			20.0	4.55	
Selenium	"		0.00190	0.00190	"			20.0	0	

North Creek Analytical, Inc.

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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Pacific Environmental Group - OR	Project:	CHEVRON #61001868, Portland, OR	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:38

Dissolved Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	**0180491-DUP1**		**P801295-01**							
Silver	1/29/98		ND	ND	mg/l			20.0		
Matrix Spike	**0180491-MS1**		**P801295-01**							
Arsenic	1/29/98	0.100	0.00120	0.101	mg/l	75.0-125	99.8			
Barium	"	0.100	0.111	0.205	"	75.0-125	94.0			
Cadmium	"	0.100	ND	0.0958	"	75.0-125	95.8			
Chromium	"	0.100	ND	0.109	"	75.0-125	109			
Lead	"	0.100	0.00450	0.0937	"	75.0-125	89.2			
Selenium	"	0.100	0.00190	0.0912	"	75.0-125	89.3			
Silver	"	0.100	ND	0.0924	"	75.0-125	92.4			
Matrix Spike	**0180491-MS2**		**P801275-02**							
Arsenic	1/29/98	0.100	ND	0.106	mg/l	75.0-125	106			
Barium	"	0.100	0.0136	0.115	"	75.0-125	101			
Cadmium	"	0.100	ND	0.102	"	75.0-125	102			
Chromium	"	0.100	ND	0.110	"	75.0-125	110			
Lead	"	0.100	0.00710	0.102	"	75.0-125	94.9			
Selenium	"	0.100	ND	0.103	"	75.0-125	103			
Silver	"	0.100	ND	0.0950	"	75.0-125	95.0			

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Pacific Environmental Group - OR	Project:	CHEVRON #61001868, Portland, OR	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:38

Polynuclear Aromatic Compounds per EPA 8270M-SIM/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180513	**Date Prepared: 1/28/98**					**Extraction Method: EPA 3520/600 Series**				
Blank	**0180513-BLK1**									
Acenaphthene	2/5/98			ND	ug/l	0.100				
Acenaphthylene	"			ND	"	0.100				
Anthracene	"			ND	"	0.100				
Benzo (a) anthracene	"			ND	"	0.100				
Benzo (a) pyrene	"			ND	"	0.100				
Benzo (b) fluoranthene	"			ND	"	0.100				
Benzo (ghi) perylene	"			ND	"	0.100				
Benzo (k) fluoranthene	"			ND	"	0.100				
Chrysene	"			ND	"	0.100				
Dibenzo (a,h) anthracene	"			ND	"	0.200				
Fluoranthene	"			ND	"	0.100				
Fluorene	"			ND	"	0.100				
Indeno (1,2,3-cd) pyrene	"			ND	"	0.100				
Naphthalene	"			ND	"	0.100				
Phenanthrene	"			ND	"	0.100				
Pyrene	"			ND	"	0.100				
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.41*	"	*43.0-116*	*96.4*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.62*	"	*35.0-114*	*105*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*3.00*	"	*33.0-141*	*120*			
LCS	**0180513-BS1**									
Acenaphthylene	2/5/98	5.00		4.95	ug/l	50.0-150	99.0			
Benzo (k) fluoranthene	"	5.00		5.10	"	50.0-150	102			
Pyrene	"	5.00		5.67	"	50.0-150	113			
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.28*	"	*43.0-116*	*91.2*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.70*	"	*35.0-114*	*108*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*2.95*	"	*33.0-141*	*118*			
LCS Dup	**0180513-BSD1**									
Acenaphthylene	2/5/98	5.00		4.96	ug/l	50.0-150	99.2	60.0	0.202	
Benzo (k) fluoranthene	"	5.00		5.00	"	50.0-150	100	60.0	1.98	
Pyrene	"	5.00		5.23	"	50.0-150	105	60.0	7.34	
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.34*	"	*43.0-116*	*93.6*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.45*	"	*35.0-114*	*98.0*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*2.82*	"	*33.0-141*	*113*			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

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Pacific Environmental Group - OR	Project:	CHEVRON #61001868, Portland, OR	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:38

Notes and Definitions

#	Note
1	The reporting limit for this analyte was raised due to matrix interference.
2	Surrogate recovery is above control limits. Since no analytes were detected in the sample, the quality of the data has not been affected.
3	Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
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
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical, Inc.

Mary A. Fritzmann Smith, Project Manager

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CHEVRON INFORMATION

CHEVRON Facility #: 61001868
Facility Address: 5531 NW Doane Ave
City, State, ZIP: Portland OR 97210
CHEVRON Contact Name: Ann Marie Dockstader
CHEVRON Telephone #: 510-842-9525
Laboratory Release #:

CONSULTANT INFORMATION

Name: P.E.G. Consultant Project #: 1115-200.2A
Address: Ptld, OR
Phone: 639-6305 Fax:
Project Manager: K. Freeman Consultant Project #:
Sample Collection by: C. Fleming Airbill #:

Turnaround Times

Standard Analyses (DAYS): 10 ✓
RUSH Analyses (HOURS): 24 48
RUSH Analyses (DAYS): 5

☒ Oregon O Washington O Alaska O Other - Hydrocarbon Methods

	SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W,S,O,A)	# OF CONTAINERS	TPH-HCID	TPH-Gas	BTEX (EPA 8020 Mod.)	TPH-Gas + BTEX	TPH-Diesel	TPH-Diesel Extended	TPH-418.1	Halogen. Volatiles (EPA 8010)	Aromatic Volatiles (EPA 8020)	Pesticides/PCBs or PCBs Only	GC/MS Volatiles (EPA 8240/8260)	GC/MS SemiVols. (EPA 8270) PAHs	PAHs by HPLC (EPA 8310)	Metals Total or Dissolved	TCLP Metals (8) Total RCRA	NCA Sample Number	REMARKS
1.	B-30	1-22-98	W	5			✓									X		✓	✓		PAHs by 8270 SIM
2.	B-14	↓	↓	5			✓									X		✓	✓		Total & Dissolv.
3.	CR-9	↓	↓	5			✓									X		✓	✓		RCRA 8 Mets.
4.	B-30-D	↓	↓	5			✓									X		✓	✓		
5.																					
6.																					
7.																					
8.																					
9.																					
10.																					

	Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time
1.	[signature]	P.E.G.	1-23-98 1110	[signature]	NCA	1-23-98 1110
2.	[signature]	NCA	1-23-98 1220	Sara McClurg	NCA	1-23-98 1220
3.						

REPORTS: Level 1 ☐ Level 2 ☐

SAMPLE PRESERVATION (Iced): Yes ✓ No

Fax Copy of Lab Report & COC to CHEVRON: Yes No ✓

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:15

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-13	P801310-01	Water	1/22/98
MW-13-D	P801310-02	Water	1/22/98
MW-11	P801310-03	Water	1/22/98
MW-10	P801310-04	Water	1/22/98
TB-1	P801310-05	Water	1/22/98

The results in this report apply to the samples analyzed in accordance with the chain of custody document.
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Mary A. Fritzmann Smith, Project Manager

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:15

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-13			**P801310-01**				**Water**	
Benzene	0180449	1/26/98	1/26/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*100*	%	
MW-13-D			**P801310-02**				**Water**	
Benzene	0180449	1/26/98	1/26/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*103*	%	
MW-11			**P801310-03**				**Water**	
Benzene	0180517	1/28/98	1/28/98		50.0	7300	ug/l	
Toluene	"	"	"		50.0	4420	"	
Ethylbenzene	"	"	"		50.0	2620	"	
Xylenes (total)	"	"	"		100	11800	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*108*	%	
MW-10			**P801310-04**				**Water**	
Benzene	0180449	1/26/98	1/26/98		0.500	9.89	ug/l	
Toluene	"	"	"		0.500	2.88	"	
Ethylbenzene	"	"	"		0.500	1.54	"	
Xylenes (total)	"	"	"		1.00	7.80	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*106*	%	
TB-1			**P801310-05**				**Water**	
Benzene	0180449	1/26/98	1/26/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*103*	%	

North Creek Analytical, Inc.

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Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:15

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-13			P801310-01				Water	
Arsenic	0180505	1/27/98	1/30/98	EPA 6020	0.00100	0.00360	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0680	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00330	"	
Lead	"	"	"	EPA 6020	0.00100	0.00410	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000200	0.000560	"	
MW-13-D			P801310-02				Water	
Arsenic	0180505	1/27/98	1/30/98	EPA 6020	0.00100	0.00330	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0710	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00360	"	
Lead	"	"	"	EPA 6020	0.00100	0.00460	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000200	ND	"	
MW-11			P801310-03				Water	
Arsenic	0180505	1/27/98	1/29/98	EPA 6020	0.00100	0.0582	mg/l	
Barium	"	"	1/30/98	EPA 6020	0.00200	0.0906	"	
Cadmium	"	"	1/29/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00320	"	
Lead	"	"	"	EPA 6020	0.00100	0.0387	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00140	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000200	0.000290	"	
MW-10			P801310-04				Water	
Arsenic	0180505	1/27/98	1/30/98	EPA 6020	0.00100	0.0186	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0364	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180466	2/5/98	2/5/98	EPA 7470A	0.000200	ND	"	

North Creek Analytical, Inc.

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:15

Dissolved Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-13			**P801310-01**				**Water**	
Arsenic	0180491	1/26/98	1/29/98	EPA 6020	0.00100	ND	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0309**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180467	"	2/5/98	EPA 7470A	0.000200	ND	"	
MW-13-D			**P801310-02**				**Water**	
Arsenic	0180491	1/26/98	1/29/98	EPA 6020	0.00100	ND	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0307**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180467	"	2/5/98	EPA 7470A	0.000200	ND	"	

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:15

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-13			**P801310-01**				**Water**	
Acenaphthene	0180494	1/27/98	2/4/98		0.100	ND	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*95.8*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*117*	"	*1*
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*110*	"	
MW-13-D			**P801310-02**				**Water**	
Acenaphthene	0180494	1/27/98	2/4/98		0.100	ND	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*84.6*	%	

North Creek Analytical, Inc.

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:15

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-13-D (continued)			P801310-02				Water	
Surrogate: Nitrobenzene-d5	*0180494*	*1/27/98*	*2/4/98*	*35.0-114*		*99.6*	%	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*102*	"	
MW-11			P801310-03				Water	
Acenaphthene	0180494	1/27/98	2/5/98		0.100	0.200	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	0.266	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	630	"	
Phenanthrene	"	"	"		0.100	0.200	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*87.3*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*NR*	"	*2*
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*51.9*	"	
MW-10			P801310-04				Water	
Acenaphthene	0180494	1/27/98	2/5/98		0.100	0.169	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	0.101	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	

North Creek Analytical, Inc.

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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:15

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-10 (continued)			P801310-04				Water	
Naphthalene	0180494	1/27/98	2/5/98		0.500	ND	ug/l	3
Phenanthrene	"	"	"		0.100	**0.192**	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*90.4*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*105*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*118*	"	

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Pacific Environmental Group - OR	Project: Willbridge GATX	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number: 1115-100.2A	Received: 1/23/98
Portland, OR 97223	Project Manager: Kevin Freeman	Reported: 2/9/98 18:15

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180449	**Date Prepared: 1/26/98**					**Extraction Method: EPA 5030**				
Blank	**0180449-BLK1**									
Benzene	1/26/98			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*50.7*	"	*75.0-120*	*101*			
LCS	**0180449-BS2**									
Benzene	1/26/98	20.0		17.1	ug/l	67.0-130	85.5			
Toluene	"	20.0		18.9	"	75.0-126	94.5			
Ethylbenzene	"	20.0		19.7	"	76.0-124	98.5			
Xylenes (total)	"	60.0		60.1	"	75.0-126	100			
Surrogate: 4-BFB	"	*50.0*		*55.6*	"	*75.0-120*	*111*			
Matrix Spike	**0180449-MS1**		**P801310-01**							
Benzene	1/26/98	20.0	ND	18.5	ug/l	67.0-130	92.5			
Toluene	"	20.0	ND	19.1	"	75.0-126	95.5			
Ethylbenzene	"	20.0	ND	19.4	"	76.0-124	97.0			
Xylenes (total)	"	60.0	ND	59.8	"	75.0-126	99.7			
Surrogate: 4-BFB	"	*50.0*		*54.8*	"	*75.0-120*	*110*			
Matrix Spike Dup	**0180449-MSD1**		**P801310-01**							
Benzene	1/26/98	20.0	ND	18.8	ug/l	67.0-130	94.0	13.0	1.61	
Toluene	"	20.0	ND	19.4	"	75.0-126	97.0	13.0	1.56	
Ethylbenzene	"	20.0	ND	19.7	"	76.0-124	98.5	15.0	1.53	
Xylenes (total)	"	60.0	ND	60.6	"	75.0-126	101	13.0	1.30	
Surrogate: 4-BFB	"	*50.0*		*55.8*	"	*75.0-120*	*112*			
Batch: 0180517	**Date Prepared: 1/28/98**					**Extraction Method: EPA 5030**				
Blank	**0180517-BLK1**									
Benzene	1/28/98			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*51.2*	"	*75.0-120*	*102*			
LCS	**0180517-BS2**									
Benzene	1/28/98	20.0		18.1	ug/l	67.0-130	90.5			

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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:15

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	0180517-BS2									
Toluene	1/28/98	20.0		19.0	ug/l	75.0-126	95.0			
Ethylbenzene	"	20.0		19.5	"	76.0-124	97.5			
Xylenes (total)	"	60.0		59.2	"	75.0-126	98.7			
Surrogate: 4-BFB	"	*50.0*		*54.2*	"	*75.0-120*	*108*			

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:15

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180466	**Date Prepared: 2/5/98**				**Extraction Method: Metals**					
Blank	**0180466-BLK1**									
Mercury	2/5/98			ND	mg/l	0.000200				
LCS	**0180466-BS1**									
Mercury	2/5/98	0.00500		0.00520	mg/l	80.0-120	104			
Duplicate	**0180466-DUP1**		**P801308-01**							
Mercury	2/5/98		ND	ND	mg/l			20.0		
Matrix Spike	**0180466-MS1**		**P801308-01**							
Mercury	2/5/98	0.00500	ND	0.00520	mg/l	75.0-125	104			
Matrix Spike	**0180466-MS2**		**P801257-01**							
Mercury	2/5/98	0.00500	0.000200	0.00500	mg/l	75.0-125	96.0			
Batch: 0180505	**Date Prepared: 1/27/98**				**Extraction Method: EPA 200/3005**					
Blank	**0180505-BLK1**									
Arsenic	1/29/98			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	"			ND	"	0.00100				
LCS	**0180505-BS1**									
Arsenic	1/29/98	0.100		0.105	mg/l	80.0-120	105			
Barium	"	0.100		0.100	"	80.0-120	100			
Cadmium	"	0.100		0.102	"	80.0-120	102			
Chromium	"	0.100		0.108	"	80.0-120	108			
Lead	"	0.100		0.102	"	80.0-120	102			
Selenium	"	0.100		0.105	"	75.0-115	105			
Silver	"	0.100		0.0945	"	80.0-120	94.5			
Duplicate	**0180505-DUP1**		**P801215-01**							
Arsenic	1/29/98		0.00320	0.00340	mg/l			20.0	6.06	
Barium	"		0.0113	0.0115	"			20.0	1.75	
Cadmium	"		ND	ND	"			20.0		

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**Refer to end of report for text of notes and definitions.*

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:15

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	0180505-DUP1		P801215-01							
Chromium	1/29/98		ND	ND	mg/l			20.0		
Lead	"		0.00770	0.00770	"			20.0	0	
Selenium	"		0.00470	0.00480	"			20.0	2.11	
Silver	"		ND	ND	"			20.0		
Matrix Spike	0180505-MS1		P801215-01							
Arsenic	1/29/98	0.100	0.00320	0.111	mg/l	75.0-125	108			
Barium	"	0.100	0.0113	0.112	"	75.0-125	101			
Cadmium	"	0.100	ND	0.101	"	75.0-125	101			
Chromium	"	0.100	ND	0.114	"	75.0-125	114			
Lead	"	0.100	0.00770	0.103	"	75.0-125	95.3			
Selenium	"	0.100	0.00470	0.104	"	75.0-125	99.3			
Silver	"	0.100	ND	0.0921	"	75.0-125	92.1			
Matrix Spike	0180505-MS2		P801310-03							
Arsenic	1/30/98	0.100	0.0582	0.165	mg/l	75.0-125	107			
Barium	1/29/98	0.100	0.0906	0.191	"	75.0-125	100			
Cadmium	1/30/98	0.100	ND	0.100	"	75.0-125	100			
Chromium	"	0.100	0.00320	0.119	"	75.0-125	116			
Lead	1/29/98	0.100	0.0387	0.138	"	75.0-125	99.3			
Selenium	1/30/98	0.100	0.00140	0.103	"	75.0-125	102			
Silver	"	0.100	ND	0.0937	"	75.0-125	93.7			

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SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:15

Dissolved Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180467	**Date Prepared: 1/26/98**				**Extraction Method: EPA 7470**					
Blank	**0180467-BLK1**									
Mercury	2/5/98			ND	mg/l	0.000200				
LCS	**0180467-BS1**									
Mercury	2/5/98	0.00500		0.00460	mg/l	80.0-120	92.0			
Duplicate	**0180467-DUP1**		**P801310-01**							
Mercury	2/5/98		ND	0.000510	mg/l			20.0		4
Matrix Spike	**0180467-MS1**		**P801310-01**							
Mercury	2/5/98	0.00500	ND	0.00500	mg/l	75.0-125	100			
Batch: 0180491	**Date Prepared: 1/26/98**				**Extraction Method: EPA 200/3005**					
Blank	**0180491-BLK1**									
Arsenic	1/29/98			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	"			ND	"	0.00100				
LCS	**0180491-BS1**									
Arsenic	1/29/98	0.100		0.103	mg/l	80.0-120	103			
Barium	"	0.100		0.101	"	80.0-120	101			
Cadmium	"	0.100		0.102	"	80.0-120	102			
Chromium	"	0.100		0.107	"	80.0-120	107			
Lead	"	0.100		0.0941	"	80.0-120	94.1			
Selenium	"	0.100		0.102	"	75.0-105	102			
Silver	"	0.100		0.0953	"	80.0-120	95.3			
Duplicate	**0180491-DUP1**		**P801295-01**							
Arsenic	1/29/98		0.00120	0.00150	mg/l			20.0	22.2	4
Barium	"		0.111	0.109	"			20.0	1.82	
Cadmium	"		ND	ND	"			20.0		
Chromium	"		ND	ND	"			20.0		
Lead	"		0.00450	0.00430	"			20.0	4.55	
Selenium	"		0.00190	0.00190	"			20.0	0	

North Creek Analytical, Inc.

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Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:15

Dissolved Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	**0180491-DUP1**		**P801295-01**							
Silver	1/29/98		ND	ND	mg/l			20.0		
Matrix Spike	**0180491-MS1**		**P801295-01**							
Arsenic	1/29/98	0.100	0.00120	0.101	mg/l	75.0-125	99.8			
Barium	"	0.100	0.111	0.205	"	75.0-125	94.0			
Cadmium	"	0.100	ND	0.0958	"	75.0-125	95.8			
Chromium	"	0.100	ND	0.109	"	75.0-125	109			
Lead	"	0.100	0.00450	0.0937	"	75.0-125	89.2			
Selenium	"	0.100	0.00190	0.0912	"	75.0-125	89.3			
Silver	"	0.100	ND	0.0924	"	75.0-125	92.4			
Matrix Spike	**0180491-MS2**		**P801275-02**							
Arsenic	1/29/98	0.100	ND	0.106	mg/l	75.0-125	106			
Barium	"	0.100	0.0136	0.115	"	75.0-125	101			
Cadmium	"	0.100	ND	0.102	"	75.0-125	102			
Chromium	"	0.100	ND	0.110	"	75.0-125	110			
Lead	"	0.100	0.00710	0.102	"	75.0-125	94.9			
Selenium	"	0.100	ND	0.103	"	75.0-125	103			
Silver	"	0.100	ND	0.0950	"	75.0-125	95.0			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

MAS
Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/9/98 18:15

Polynuclear Aromatic Compounds per EPA 8270M-SIM/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180494	Date Prepared: 1/27/98					Extraction Method: EPA 3520/600 Series				
Blank	0180494-BLK1									
Acenaphthene	2/4/98			ND	ug/l	0.100				
Acenaphthylene	"			ND	"	0.100				
Anthracene	"			ND	"	0.100				
Benzo (a) anthracene	"			ND	"	0.100				
Benzo (a) pyrene	"			ND	"	0.100				
Benzo (b) fluoranthene	"			ND	"	0.100				
Benzo (ghi) perylene	"			ND	"	0.100				
Benzo (k) fluoranthene	"			ND	"	0.100				
Chrysene	"			ND	"	0.100				
Dibenzo (a,h) anthracene	"			ND	"	0.200				
Fluoranthene	"			ND	"	0.100				
Fluorene	"			ND	"	0.100				
Indeno (1,2,3-cd) pyrene	"			ND	"	0.100				
Naphthalene	"			ND	"	0.100				
Phenanthrene	"			ND	"	0.100				
Pyrene	"			ND	"	0.100				
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.62*	"	*43.0-116*	*105*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.62*	"	*35.0-114*	*105*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*3.24*	"	*33.0-141*	*130*			
LCS	0180494-BS1									
Acenaphthylene	2/4/98	5.00		5.28	ug/l	50.0-150	106			
Benzo (k) fluoranthene	"	5.00		5.60	"	50.0-150	112			
Pyrene	"	5.00		5.39	"	50.0-150	108			
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.50*	"	*43.0-116*	*100*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.63*	"	*35.0-114*	*105*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*2.89*	"	*33.0-141*	*116*			
LCS Dup	0180494-BSD1									
Acenaphthylene	2/5/98	5.00		5.32	ug/l	50.0-150	106	60.0	0	
Benzo (k) fluoranthene	"	5.00		4.27	"	50.0-150	85.4	60.0	27.0	
Pyrene	"	5.00		3.82	"	50.0-150	76.4	60.0	34.3	
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.44*	"	*43.0-116*	*97.6*			
Surrogate: Nitrobenzene-d5	*2/4/98*	*2.50*		*2.64*	"	*35.0-114*	*106*			
Surrogate: p-Terphenyl-d14	*2/5/98*	*2.50*		*2.10*	"	*33.0-141*	*84.0*			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled:	1/22/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received:	1/23/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported:	2/9/98 18:15

Notes and Definitions

#	Note
1	Surrogate recovery is above control limits. Since no analytes were detected in the sample, the quality of the data has not been affected.
2	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
3	The reporting limit for this analyte was raised due to matrix interference.
4	Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
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
Recov.	Recovery
RPD	Relative Percent Difference

9.6

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
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CHAIN OF CUSTODY REPORT

Work Order # P801310

REPORT TO: Pacific Env. Group	INVOICE TO: Shell Oil Products
ATTENTION: Kevin M Freeman	ATTENTION: Irv. Jenkins
ADDRESS: 7320 SW Hunziker Ste 320	ADDRESS: P.O. Box 2099
Portland OR 97223	Houston TX 77252-2099
PHONE: 639-6305 FAX: 639-7482	P.O. NUMBER: 0301-73192-TEREMZ-4029 NCA QUOTE #:
PROJECT NAME: Willbridge Terminal	
PROJECT NUMBER: 1115-100.2A	
SAMPLED BY: C. Fleming	

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 Standard | 7 | 5 | 4 | 3 | 2 | 1 | Same Day

Fuels & Hydrocarbon Analyses: 5 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)	Analysis Request: 8020 BTEX	8270 SIM PAHs	RCRA 8 Metals TCLP	RCRA 8 Metals Dissolved	MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
1.	MW-13	1-22-98		X	X	X	X	W	5	
2.	MW-13-D			X	X	X	X		5	
3.	MW-11			X	X	X			4	
4.	MW-10			X	X	X			4	
5.	TB-1			X					2	
6.										
7.										
8.										
9.										
10.										

RELINQUISHED BY: Cale Fleming	DATE: 1-23-98	RECEIVED BY: Tammy Spangler	DATE: 1-23-98
PRINT NAME: Cale R. Fleming FIRM: P.E.G.	TIME: 1110	PRINT NAME: Tammy Spangler FIRM: NCA	TIME: 1110
RELINQUISHED BY:	DATE: 1-23-98	RECEIVED BY: Kari Cline	DATE: 1/23/98
PRINT NAME: Gary Spangler FIRM: NCA	TIME: 1220	PRINT NAME: KARI CLINE FIRM: NCA	TIME: 1220

ADDITIONAL REMARKS:

PAHs by 8270 SIM

PAGE 1 OF 1

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Environmental Laboratory Services

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-40	P801337-01	Water	1/23/98
MW-33	P801337-02	Water	1/23/98
MW-36	P801337-03	Water	1/23/98
MW-37	P801337-04	Water	1/23/98
MW-8	P801337-05	Water	1/23/98
MW-22	P801337-06	Water	1/23/98
TB-1	P801337-07	Water	1/23/98

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-40			P801337-01				Water	
Benzene	0180501	1/27/98	1/27/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*98.4*	%	
MW-33			P801337-02				Water	
Benzene	0180501	1/27/98	1/27/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*97.8*	%	
MW-36			P801337-03				Water	
Benzene	0180501	1/27/98	1/27/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*94.6*	%	
MW-37			P801337-04				Water	
Benzene	0180517	1/28/98	1/28/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	3.06	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*105*	%	
MW-8			P801337-05				Water	
Benzene	0180501	1/27/98	1/27/98		0.500	98.2	ug/l	
Toluene	"	"	"		0.500	3.77	"	
Ethylbenzene	"	"	"		0.500	73.6	"	
Xylenes (total)	"	"	"		1.00	78.5	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*102*	%	
MW-22			P801337-06				Water	
Benzene	0180517	1/28/98	1/28/98		100	2060	ug/l	
Toluene	"	"	"		100	2590	"	
Ethylbenzene	"	"	"		100	4820	"	

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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-22 (continued)			P801337-06				Water	
Xylenes (total)	0180517	1/28/98	1/28/98		200	12500	ug/l	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*99.0*	%	
TB-1			P801337-07				Water	
Benzene	0180501	1/27/98	1/27/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*94.8*	%	

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-40			P801337-01				Water	
Arsenic	0180531	1/28/98	1/29/98	EPA 6020	0.00100	**0.00810**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0530**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00220**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00330**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180524	2/9/98	2/10/98	EPA 7470A	0.000500	ND	"	
MW-33			P801337-02				Water	
Arsenic	0180531	1/28/98	1/30/98	EPA 6020	0.00100	**0.00480**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0475**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180524	2/9/98	2/10/98	EPA 7470A	0.000500	ND	"	
MW-36			P801337-03				Water	
Arsenic	0180531	1/28/98	1/30/98	EPA 6020	0.00100	**0.00520**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0259**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180524	2/9/98	2/10/98	EPA 7470A	0.000500	ND	"	
MW-37			P801337-04				Water	
Arsenic	0180531	1/28/98	1/29/98	EPA 6020	0.00100	**0.0265**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0392**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180524	2/9/98	2/10/98	EPA 7470A	0.000500	ND	"	

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-8			P801337-05				Water	
Arsenic	0180531	1/28/98	1/30/98	EPA 6020	0.00100	**0.00400**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0164**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180524	2/9/98	2/10/98	EPA 7470A	0.000500	ND	"	
MW-22			P801337-06				Water	
Arsenic	0180531	1/28/98	1/30/98	EPA 6020	0.00100	**0.0933**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.228**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00150**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00700**	"	
Selenium	"	"	"	EPA 6020	0.00100	**0.00120**	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180524	2/9/98	2/10/98	EPA 7470A	0.000500	ND	"	

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-40			**P801337-01**				Water	
Acenaphthene	0180513	1/28/98	2/5/98		0.100	ND	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*88.2*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*99.6*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*91.2*	"	
MW-33			**P801337-02**				Water	
Acenaphthene	0180513	1/28/98	2/5/98		0.100	ND	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*81.4*	%	

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-33 (continued)			P801337-02				Water	
Surrogate: Nitrobenzene-d5	*0180513*	*1/28/98*	*2/5/98*	*35.0-114*		*92.4*	%	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*103*	"	
MW-36			P801337-03				Water	
Acenaphthene	0180513	1/28/98	2/5/98		0.100	ND	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*78.5*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*98.7*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*111*	"	
MW-37			P801337-04				Water	
Acenaphthene	0180513	1/28/98	2/5/98		0.100	**0.565**	ug/l	
Acenaphthylene	"	"	"		0.200	ND	"	1
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	**0.472**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-37 (continued)			P801337-04				Water	
Naphthalene	0180513	1/28/98	2/5/98		0.500	ND	ug/l	1
Phenanthrene	"	"	"		0.100	**0.201**	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*61.4*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*98.7*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*80.1*	"	
MW-8			P801337-05				Water	
Acenaphthene	0180513	1/28/98	2/5/98		0.100	ND	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	**6.45**	"	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*88.2*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*105*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*109*	"	
MW-22			P801337-06				Water	
Acenaphthene	0180513	1/28/98	2/5/98		2.00	ND	ug/l	2
Acenaphthylene	"	"	"		2.00	ND	"	2
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	

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*Refer to end of report for text of notes and definitions.

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-22 (continued)			P801337-06				Water	
Dibenzo (a,h) anthracene	0180513	1/28/98	2/5/98		0.200	ND	ug/l	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		2.00	ND	"	2
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		2.00	369	"	2
Phenanthrene	"	"	"		0.100	**0.311**	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*89.5*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*104*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*55.7*	"	

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180501	**Date Prepared: 1/27/98**					**Extraction Method: EPA 5030**				
Blank	**0180501-BLK1**									
Benzene	1/27/98			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*49.6*	"	*75.0-120*	*99.2*			
LCS	**0180501-BS2**									
Benzene	1/27/98	20.0		19.5	ug/l	67.0-130	97.5			
Toluene	"	20.0		19.7	"	75.0-126	98.5			
Ethylbenzene	"	20.0		20.3	"	76.0-124	101			
Xylenes (total)	"	60.0		62.1	"	75.0-126	103			
Surrogate: 4-BFB	"	*50.0*		*48.6*	"	*75.0-120*	*97.2*			
Matrix Spike	**0180501-MS1**		**P801337-01**							
Benzene	1/27/98	20.0	ND	19.2	ug/l	67.0-130	96.0			
Toluene	"	20.0	ND	19.6	"	75.0-126	98.0			
Ethylbenzene	"	20.0	ND	19.9	"	76.0-124	99.5			
Xylenes (total)	"	60.0	ND	61.0	"	75.0-126	102			
Surrogate: 4-BFB	"	*50.0*		*48.2*	"	*75.0-120*	*96.4*			
Matrix Spike Dup	**0180501-MSD1**		**P801337-01**							
Benzene	1/27/98	20.0	ND	19.3	ug/l	67.0-130	96.5	13.0	0.519	
Toluene	"	20.0	ND	19.6	"	75.0-126	98.0	13.0	0	
Ethylbenzene	"	20.0	ND	20.0	"	76.0-124	100	15.0	0.501	
Xylenes (total)	"	60.0	ND	61.1	"	75.0-126	102	13.0	0	
Surrogate: 4-BFB	"	*50.0*		*50.1*	"	*75.0-120*	*100*			
Batch: 0180517	**Date Prepared: 1/28/98**					**Extraction Method: EPA 5030**				
Blank	**0180517-BLK1**									
Benzene	1/28/98			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*51.2*	"	*75.0-120*	*102*			
LCS	**0180517-BS2**									
Benzene	1/28/98	20.0		18.1	ug/l	67.0-130	90.5			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**0180517-BS2**									
Toluene	1/28/98	20.0		19.0	ug/l	75.0-126	95.0			
Ethylbenzene	"	20.0		19.5	"	76.0-124	97.5			
Xylenes (total)	"	60.0		59.2	"	75.0-126	98.7			
Surrogate: 4-BFB	"	*50.0*		*54.2*	"	*75.0-120*	*108*			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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PORTLAND • (503) 643-9200 • FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180524	**Date Prepared: 2/9/98**				**Extraction Method: Metals**					
Blank	**0180524-BLK1**									
Mercury	2/10/98			ND	mg/l	0.000500				
LCS	**0180524-BS1**									
Mercury	2/10/98	0.00500		0.00470	mg/l	80.0-120	94.0			
Duplicate	**0180524-DUP1**		**P801337-01**							
Mercury	2/10/98		ND	0.000550	mg/l			20.0		3
Matrix Spike	**0180524-MS1**		**P801337-01**							
Mercury	2/10/98	0.00500	ND	0.00320	mg/l	75.0-125	64.0			4
Matrix Spike	**0180524-MS2**		**P801356-01**							
Mercury	2/10/98	0.00500	0.000590	0.00400	mg/l	75.0-125	68.2			4
Batch: 0180531	**Date Prepared: 1/28/98**				**Extraction Method: EPA 200/3005**					
Blank	**0180531-BLK1**									
Arsenic	1/29/98			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	"			ND	"	0.00100				
LCS	**0180531-BS1**									
Arsenic	1/29/98	0.100		0.105	mg/l	80.0-120	105			
Barium	"	0.100		0.100	"	80.0-120	100			
Cadmium	"	0.100		0.101	"	80.0-120	101			
Chromium	"	0.100		0.108	"	80.0-120	108			
Lead	"	0.100		0.100	"	80.0-120	100			
Selenium	"	0.100		0.103	"	75.0-115	103			
Silver	"	0.100		0.0920	"	80.0-120	92.0			
Duplicate	**0180531-DUP1**		**P801337-01**							
Arsenic	1/29/98		0.00810	0.00790	mg/l			20.0	2.50	
Barium	"		0.0530	0.0524	"			20.0	1.14	
Cadmium	"		ND	ND	"			20.0		

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

MFS
Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	0180531-DUP1		P801337-01							
Chromium	1/29/98		0.00220	0.00250	mg/l			20.0	12.8	
Lead	"		0.00330	0.00310	"			20.0	6.25	
Selenium	"		ND	ND	"			20.0		
Silver	"		ND	ND	"			20.0		
Matrix Spike	0180531-MS1		P801337-01							
Arsenic	1/29/98	0.100	0.00810	0.118	mg/l	75.0-125	110			
Barium	"	0.100	0.0530	0.155	"	75.0-125	102			
Cadmium	"	0.100	ND	0.105	"	75.0-125	105			
Chromium	"	0.100	0.00220	0.115	"	75.0-125	113			
Lead	"	0.100	0.00330	0.102	"	75.0-125	98.7			
Selenium	"	0.100	ND	0.107	"	75.0-125	107			
Silver	"	0.100	ND	0.0916	"	75.0-125	91.6			
Matrix Spike	0180531-MS2		P801337-04							
Arsenic	1/29/98	0.100	0.0265	0.136	mg/l	75.0-125	110			
Barium	"	0.100	0.0392	0.140	"	75.0-125	101			
Cadmium	"	0.100	ND	0.102	"	75.0-125	102			
Chromium	"	0.100	ND	0.115	"	75.0-125	115			
Lead	"	0.100	ND	0.0993	"	75.0-125	99.3			
Selenium	"	0.100	ND	0.103	"	75.0-125	103			
Silver	"	0.100	ND	0.0927	"	75.0-125	92.7			

North Creek Analytical, Inc.

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

Polynuclear Aromatic Compounds per EPA 8270M-SIM/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180513	**Date Prepared: 1/28/98**					**Extraction Method: EPA 3520/600 Series**				
Blank	**0180513-BLK1**									
Acenaphthene	2/5/98			ND	ug/l	0.100				
Acenaphthylene	"			ND	"	0.100				
Anthracene	"			ND	"	0.100				
Benzo (a) anthracene	"			ND	"	0.100				
Benzo (a) pyrene	"			ND	"	0.100				
Benzo (b) fluoranthene	"			ND	"	0.100				
Benzo (ghi) perylene	"			ND	"	0.100				
Benzo (k) fluoranthene	"			ND	"	0.100				
Chrysene	"			ND	"	0.100				
Dibenzo (a,h) anthracene	"			ND	"	0.200				
Fluoranthene	"			ND	"	0.100				
Fluorene	"			ND	"	0.100				
Indeno (1,2,3-cd) pyrene	"			ND	"	0.100				
Naphthalene	"			ND	"	0.100				
Phenanthrene	"			ND	"	0.100				
Pyrene	"			ND	"	0.100				
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.41*	"	*43.0-116*	*96.4*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.62*	"	*35.0-114*	*105*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*3.00*	"	*33.0-141*	*120*			
LCS	**0180513-BS1**									
Acenaphthylene	2/5/98	5.00		4.95	ug/l	50.0-150	99.0			
Benzo (k) fluoranthene	"	5.00		5.10	"	50.0-150	102			
Pyrene	"	5.00		5.67	"	50.0-150	113			
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.28*	"	*43.0-116*	*91.2*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.70*	"	*35.0-114*	*108*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*2.95*	"	*33.0-141*	*118*			
LCS Dup	**0180513-BSD1**									
Acenaphthylene	2/5/98	5.00		4.96	ug/l	50.0-150	99.2	60.0	0.202	
Benzo (k) fluoranthene	"	5.00		5.00	"	50.0-150	100	60.0	1.98	
Pyrene	"	5.00		5.23	"	50.0-150	105	60.0	7.34	
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.34*	"	*43.0-116*	*93.6*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.45*	"	*35.0-114*	*98.0*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*2.82*	"	*33.0-141*	*113*			

North Creek Analytical, Inc.

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/23/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/26/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/11/98 15:02

Notes and Definitions

#	Note
1	The reporting limit for this analyte was raised due to matrix interference.
2	The reporting limit for this analyte was raised due to the high analyte concentration present in the sample.
3	Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
4	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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
Recov.	Recovery
RPD	Relative Percent Difference

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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

CHAIN OF CUSTODY REPORT

Work Order # P801337

REPORT TO: Pacific Env. Group
ATTENTION: Kevin M. Freeman
ADDRESS: 7320 SW Hunziker Ste. 320
Portland, OR 97223
PHONE: 639-6305 FAX: 639-7482
PROJECT NAME: Willbridge Terminal
PROJECT NUMBER: 1115-100.2A
SAMPLED BY: C. Fleming

INVOICE TO: Shell Oil Products
ATTENTION: Irv. Jenkins
ADDRESS: P.O. Box 2099
Houston TX 77252-2099
P.O. NUMBER: 0301-73192-TEREM2-4029
NCA QUOTE #:

TURNAROUND REQUEST In Business Days *
Organic & Inorganic Analyses: [X] Standard | 7 | 5 | 4 | 3 | 2 | 1 | Same Day
Fuels & Hydrocarbon Analyses: [5] 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)	Analysis Request: 8020 BTEX	8270 SIM PAHs	RCRA 8 Metals TOTAL	RCRA 8 metals dissolved	MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
1. MW-40	1-23-98		✓	✓	✓		W	4	
2. MW-33			✓	✓	✓			4	
3. MW-36			✓	✓	✓			4	
4. MW-37			✓	✓	✓			4	
5. MW-8			✓	✓	✓			4	
6. MW-22			✓	✓	✓			4	
7. TB-1	↓		✓				↓	2	
8.									
9.									
10.									

RELINQUISHED BY: Cale R. Fleming DATE: 1-26-98
PRINT NAME: Cale R. Fleming FIRM: P.E.G. TIME: 1445
RECEIVED BY: Carry Spangler DATE: 1-26-98
PRINT NAME: Carry Spangler FIRM: NCA TIME: 445

RELINQUISHED BY: Carry Spangler DATE: 1-26-98
PRINT NAME: Carry Spangler FIRM: NCA TIME: 1545
RECEIVED BY: Sara McClurg DATE: 1-26-98
PRINT NAME: Sara McClurg FIRM: NCA TIME: 1545

ADDITIONAL REMARKS:
DAH's in 8270 SIM

PAGE 1 OF 1

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled:	1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received:	1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported:	2/12/98 17:39

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-15	P801356-01	Water	1/26/98
MW-32	P801356-02	Water	1/26/98
MW-31	P801356-03	Water	1/26/98
MW-28	P801356-04	Water	1/26/98
MW-26	P801356-05	Water	1/26/98
MW-23	P801356-06	Water	1/26/98
TB-1	P801356-07	Water	1/26/98

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 17:39

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-15			P801356-01				Water	
Benzene	0180519	1/28/98	1/28/98		0.500	3.84	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*91.2*	%	
MW-32			P801356-02				Water	
Benzene	0180519	1/28/98	1/28/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*93.4*	%	
MW-31			P801356-03				Water	
Benzene	0180519	1/28/98	1/28/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*90.0*	%	
MW-28			P801356-04				Water	
Benzene	0180567	1/30/98	1/30/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*100*	%	
MW-26			P801356-05				Water	
Benzene	0180567	1/30/98	1/30/98		0.500	3.60	ug/l	
Toluene	"	"	"		0.500	2.89	"	
Ethylbenzene	"	"	"		0.500	7.13	"	
Xylenes (total)	"	"	"		1.00	9.19	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*122*	%	*1*
MW-23			P801356-06				Water	
Benzene	0180567	1/30/98	1/30/98		0.500	4.25	ug/l	
Toluene	"	"	"		0.500	31.7	"	
Ethylbenzene	"	"	"		0.500	32.4	"	

North Creek Analytical, Inc.

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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 17:39

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-23 (continued)			P801356-06				Water	
Xylenes (total)	0180567	1/30/98	1/30/98		1.00	64.9	ug/l	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*160*	%	*1*
TB-1			P801356-07				Water	
Benzene	0180519	1/28/98	1/28/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*88.6*	%	

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	!115-100.2A	Received: 1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 17:39

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-15			P801356-01				Water	
Arsenic	0280038	2/2/98	2/4/98	EPA 6020	0.00100	0.00110	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0507	"	
Cadmium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/4/98	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180524	2/9/98	2/10/98	EPA 7470A	0.000500	0.000590	"	
MW-32			P801356-02				Water	
Arsenic	0280038	2/2/98	2/4/98	EPA 6020	0.00100	ND	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.00470	"	
Cadmium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/4/98	EPA 6020	0.00100	0.00400	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180524	2/9/98	2/10/98	EPA 7470A	0.000500	ND	"	
MW-31			P801356-03				Water	
Arsenic	0280038	2/2/98	2/4/98	EPA 6020	0.00100	0.00710	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0195	"	
Cadmium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/4/98	EPA 6020	0.00100	0.00140	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180524	2/9/98	2/10/98	EPA 7470A	0.000500	0.00290	"	
MW-28			P801356-04				Water	
Arsenic	0280038	2/2/98	2/4/98	EPA 6020	0.00100	ND	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.00690	"	
Cadmium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/4/98	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180524	2/9/98	2/10/98	EPA 7470A	0.000500	ND	"	

North Creek Analytical, Inc.

Refer to end of report for text of notes and definitions.

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 17:39

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-26			P801356-05				Water	
Arsenic	0280038	2/2/98	2/4/98	EPA 6020	0.00100	**0.0477**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0788**	"	
Cadmium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/4/98	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00100**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180524	2/9/98	2/10/98	EPA 7470A	0.000500	ND	"	
MW-23			P801356-06				Water	
Arsenic	0280038	2/2/98	2/4/98	EPA 6020	0.00100	**0.00360**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0148**	"	
Cadmium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/4/98	EPA 6020	0.00100	**0.00130**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00250**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0180524	2/9/98	2/10/98	EPA 7470A	0.000500	ND	"	

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 17:39

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-15			P801356-01				Water	
Acenaphthene	0180513	1/28/98	2/5/98		0.100	**0.132**	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	**0.102**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*76.5*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*96.6*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*96.2*	"	
MW-32			P801356-02				Water	
Acenaphthene	0180513	1/28/98	2/5/98		0.100	ND	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*76.9*	%	

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**Refer to end of report for text of notes and definitions.*

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 17:39

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-32 (continued)			**P801356-02**				**Water**	
Surrogate: Nitrobenzene-d5	*0180513*	*1/28/98*	*2/5/98*	*35.0-114*		*95.8*	*%*	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*105*	"	
MW-31			**P801356-03**				**Water**	
Acenaphthene	0180513	1/28/98	2/6/98		0.100	**0.651**	ug/l	
Acenaphthylene	"	"	"		0.300	ND	"	2
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	**2.01**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.300	ND	"	2
Phenanthrene	"	"	"		0.100	**1.54**	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*73.8*	*%*	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*97.0*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*110*	"	
MW-28			**P801356-04**				**Water**	
Acenaphthene	0180513	1/28/98	2/9/98		1.00	ND	ug/l	2
Acenaphthylene	"	"	"		1.00	ND	"	2
Anthracene	"	"	"		1.00	ND	"	2
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	**0.172**	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		1.00	ND	"	2
Fluorene	"	"	"		1.00	**1.64**	"	2
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	

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Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 17:39

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-28 (continued)			P801356-04				Water	
Naphthalene	0180513	1/28/98	2/9/98		1.00	ND	ug/l	2
Phenanthrene	"	"	"		1.00	ND	"	2
Pyrene	"	"	"		0.100	0.495	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*93.7*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*104*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*97.5*	"	
MW-26			P801356-05				Water	
Acenaphthene	0180513	1/28/98	2/9/98		0.100	1.91	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	0.188	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	0.501	"	
Fluorene	"	"	"		0.100	1.90	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	3.86	"	
Phenanthrene	"	"	"		0.100	2.70	"	
Pyrene	"	"	"		0.100	0.312	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*73.0*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*108*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*86.1*	"	
MW-23			P801356-06				Water	
Acenaphthene	0180513	1/28/98	2/9/98		0.100	1.59	ug/l	
Acenaphthylene	"	"	"		0.400	ND	"	2
Anthracene	"	"	"		0.100	0.244	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	0.132	"	

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 17:39

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-23 (continued)			P801356-06				Water	
Dibenzo (a,h) anthracene	0180513	1/28/98	2/9/98		0.200	ND	ug/l	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	3.21	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	7.35	"	
Phenanthrene	"	"	"		0.100	2.74	"	
Pyrene	"	"	"		0.100	0.325	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*65.8*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*108*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*57.4*	"	

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 17:39

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180519	**Date Prepared: 1/28/98**					**Extraction Method: EPA 5030**				
Blank	**0180519-BLK1**									
Benzene	1/28/98			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*49.5*	"	*75.0-120*	*99.0*			
LCS	**0180519-BS2**									
Benzene	1/28/98	20.0		20.5	ug/l	67.0-130	103			
Toluene	"	20.0		21.2	"	75.0-126	106			
Ethylbenzene	"	20.0		21.1	"	76.0-124	106			
Xylenes (total)	"	60.0		64.1	"	75.0-126	107			
Surrogate: 4-BFB	"	*50.0*		*49.8*	"	*75.0-120*	*99.6*			
Matrix Spike	**0180519-MS1**		**P801356-01**							
Benzene	1/28/98	20.0	3.84	24.2	ug/l	67.0-130	102			
Toluene	"	20.0	ND	20.0	"	75.0-126	100			
Ethylbenzene	"	20.0	ND	19.8	"	76.0-124	99.0			
Xylenes (total)	"	60.0	ND	59.8	"	75.0-126	99.7			
Surrogate: 4-BFB	"	*50.0*		*44.0*	"	*75.0-120*	*88.0*			
Matrix Spike Dup	**0180519-MSD1**		**P801356-01**							
Benzene	1/28/98	20.0	3.84	22.5	ug/l	67.0-130	93.3	13.0	8.91	
Toluene	"	20.0	ND	18.2	"	75.0-126	91.0	13.0	9.42	
Ethylbenzene	"	20.0	ND	18.0	"	76.0-124	90.0	15.0	9.52	
Xylenes (total)	"	60.0	ND	53.9	"	75.0-126	89.8	13.0	10.4	
Surrogate: 4-BFB	"	*50.0*		*45.0*	"	*75.0-120*	*90.0*			
Batch: 0180567	**Date Prepared: 1/30/98**					**Extraction Method: EPA 5030**				
Blank	**0180567-BLK1**									
Benzene	1/30/98			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*54.2*	"	*75.0-120*	*108*			
LCS	**0180567-BS2**									
Benzene	1/30/98	20.0		20.2	ug/l	67.0-130	101			

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*Refer to end of report for text of notes and definitions.

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 17:39

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	0180567-BS2									
Toluene	1/30/98	20.0		20.4	ug/l	75.0-126	102			
Ethylbenzene	"	20.0		20.5	"	76.0-124	103			
Xylenes (total)	"	60.0		63.5	"	75.0-126	106			
Surrogate: 4-BFB	"	*50.0*		*55.8*	"	*75.0-120*	*112*			

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 17:39

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180524	**Date Prepared: 2/9/98**				**Extraction Method: Metals**					
Blank	**0180524-BLK1**									
Mercury	2/10/98			ND	mg/l	0.000500				
LCS	**0180524-BS1**									
Mercury	2/10/98	0.00500		0.00470	mg/l	80.0-120	94.0			
Duplicate	**0180524-DUP1**		**P801337-01**							
Mercury	2/10/98		ND	0.000550	mg/l			20.0		3
Matrix Spike	**0180524-MS1**		**P801337-01**							
Mercury	2/10/98	0.00500	ND	0.00320	mg/l	75.0-125	64.0			4
Matrix Spike	**0180524-MS2**		**P801356-01**							
Mercury	2/10/98	0.00500	0.000590	0.00400	mg/l	75.0-125	68.2			4
Batch: 0280038	**Date Prepared: 2/2/98**				**Extraction Method: EPA 200/3005**					
Blank	**0280038-BLK1**									
Arsenic	2/3/98			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	2/9/98			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	2/4/98			ND	"	0.00100				
Selenium	2/3/98			ND	"	0.00100				
Silver	"			ND	"	0.00100				
LCS	**0280038-BS1**									
Arsenic	2/3/98	0.100		0.101	mg/l	80.0-120	101			
Barium	"	0.100		0.0982	"	80.0-120	98.2			
Cadmium	2/9/98	0.100		0.104	"	80.0-120	104			
Chromium	2/3/98	0.100		0.0953	"	80.0-120	95.3			
Lead	2/4/98	0.100		0.0983	"	80.0-120	98.3			
Selenium	2/3/98	0.100		0.0989	"	75.0-115	98.9			
Silver	"	0.100		0.0933	"	80.0-120	93.3			
Duplicate	**0280038-DUP1**		**P801395-01**							
Arsenic	2/3/98		0.00500	0.00430	mg/l			20.0	15.1	
Barium	"		0.0374	0.0385	"			20.0	2.90	
Cadmium	2/9/98		0.00250	0.00260	"			20.0	3.92	

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Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 17:39

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	**0280038-DUP1**		**P801395-01**							
Chromium	2/3/98		ND	ND	mg/l			20.0		
Lead	2/4/98		0.0199	0.0200	"			20.0	0.501	
Selenium	2/3/98		0.00380	0.00360	"			20.0	5.41	
Silver	"		ND	ND	"			20.0		
Matrix Spike	**0280038-MS1**		**P801395-01**							
Arsenic	2/3/98	0.100	0.00500	0.106	mg/l	75.0-125	101			
Barium	"	0.100	0.0374	0.136	"	75.0-125	98.6			
Cadmium	2/9/98	0.100	0.00250	0.101	"	75.0-125	98.5			
Chromium	2/3/98	0.100	ND	0.106	"	75.0-125	106			
Lead	2/4/98	0.100	0.0199	0.108	"	75.0-125	88.1			
Selenium	2/3/98	0.100	0.00380	0.0982	"	75.0-125	94.4			
Silver	"	0.100	ND	0.0883	"	75.0-125	88.3			
Matrix Spike	**0280038-MS2**		**P801370-02**							
Arsenic	2/4/98	0.100	0.00250	0.0963	mg/l	75.0-125	93.8			
Barium	"	0.100	0.0388	0.137	"	75.0-125	98.2			
Cadmium	2/10/98	0.100	ND	0.101	"	75.0-125	101			
Chromium	2/4/98	0.100	0.00240	0.103	"	75.0-125	101			
Lead	"	0.100	ND	0.0842	"	75.0-125	84.2			
Selenium	"	0.100	ND	0.0862	"	75.0-125	86.2			
Silver	"	0.100	ND	0.0875	"	75.0-125	87.5			

North Creek Analytical, Inc.

Refer to end of report for text of notes and definitions.

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled: 1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 17:39

Polynuclear Aromatic Compounds per EPA 8270M-SIM/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180513	**Date Prepared: 1/28/98**					**Extraction Method: EPA 3520/600 Series**				
Blank	**0180513-BLK1**									
Acenaphthene	2/5/98			ND	ug/l	0.100				
Acenaphthylene	"			ND	"	0.100				
Anthracene	"			ND	"	0.100				
Benzo (a) anthracene	"			ND	"	0.100				
Benzo (a) pyrene	"			ND	"	0.100				
Benzo (b) fluoranthene	"			ND	"	0.100				
Benzo (ghi) perylene	"			ND	"	0.100				
Benzo (k) fluoranthene	"			ND	"	0.100				
Chrysene	"			ND	"	0.100				
Dibenzo (a,h) anthracene	"			ND	"	0.200				
Fluoranthene	"			ND	"	0.100				
Fluorene	"			ND	"	0.100				
Indeno (1,2,3-cd) pyrene	"			ND	"	0.100				
Naphthalene	"			ND	"	0.100				
Phenanthrene	"			ND	"	0.100				
Pyrene	"			ND	"	0.100				
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.41*	"	*43.0-116*	*96.4*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.62*	"	*35.0-114*	*105*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*3.00*	"	*33.0-141*	*120*			
LCS	**0180513-BS1**									
Acenaphthylene	2/5/98	5.00		4.95	ug/l	50.0-150	99.0			
Benzo (k) fluoranthene	"	5.00		5.10	"	50.0-150	102			
Pyrene	"	5.00		5.67	"	50.0-150	113			
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.28*	"	*43.0-116*	*91.2*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.70*	"	*35.0-114*	*108*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*2.95*	"	*33.0-141*	*118*			
LCS Dup	**0180513-BSD1**									
Acenaphthylene	2/5/98	5.00		4.96	ug/l	50.0-150	99.2	60.0	0.202	
Benzo (k) fluoranthene	"	5.00		5.00	"	50.0-150	100	60.0	1.98	
Pyrene	"	5.00		5.23	"	50.0-150	105	60.0	7.34	
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.34*	"	*43.0-116*	*93.6*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.45*	"	*35.0-114*	*98.0*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*2.82*	"	*33.0-141*	*113*			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge GATX	Sampled:	1/26/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received:	1/27/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported:	2/12/98 17:39

Notes and Definitions

#	Note
1	Surrogate recovery is outside control limits due to matrix interference.
2	The reporting limit for this analyte was raised due to matrix interference.
3	Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
4	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical, Inc.

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
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CHAIN OF CUSTODY REPORT

Work Order # P801356

REPORT TO: Pacific Env. Group	INVOICE TO: Shell Oil Products
ATTENTION: Kevin M. Freeman	ATTENTION: Irv. Jenkins
ADDRESS: 7320 SW Hunziker Ste 320, Portland, OR 97223	ADDRESS: P.O. Box 2099, Houston, TX 77252-2099
PHONE: 639-6305 FAX: 639-7482	P.O. NUMBER: 8201-73192-TEREM2-4029 NCA QUOTE #:
PROJECT NAME: Willbridge Terminal	
PROJECT NUMBER: 1115-100.2A	
SAMPLED BY: C. Fleming	

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: [✓] Standard | 7 | 5 | 4 | 3 | 2 | 1 | Same Day
Fuels & Hydrocarbon Analyses: 5 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)	Analysis Request: 8020 BTEX	8270 SIM PAH's	RCRA 8 Metals Total	MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
1.	MW-15	1-26-98		✓	✓	✓	W	4	
2.	MW-32			✓	✓	✓		4	
3.	MW-31			✓	✓	✓		4	
4.	MW-28			✓	✓	✓		4	
5.	MW-26			✓	✓	✓		4	
6.	MW-23			✓	✓	✓		4	
7.	TB-1	↓		✓			↓	2	
8.									
9.									
10.									

RELINQUISHED BY:	DATE: 1-27-98	RECEIVED BY:	DATE: 1-27-98
PRINT NAME: Cole R. Fleming	FIRM: P.E.G. TIME: 1150	PRINT NAME: Cary Spangler	FIRM: NCA TIME: 1150
RELINQUISHED BY:	DATE: 1-27-98	RECEIVED BY: Sara McClurg	DATE: 1-27-98
PRINT NAME: Cary Spangler	FIRM: NCA TIME: 1235	PRINT NAME: Sara McClurg	FIRM: NCA TIME: 1235

ADDITIONAL REMARKS:
PAH's by 8270 SIM

PAGE 1 OF 1

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Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
U-3	P801382-01	Water	1/27/98
U-2	P801382-02	Water	1/27/98
B-17	P801382-03	Water	1/27/98
B-17-D	P801382-04	Water	1/27/98
B-36	P801382-05	Water	1/27/98
B-6	P801382-06	Water	1/27/98
TB-1	P801382-07	Water	1/27/98

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Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
U-3			P801382-01				Water	
Benzene	0180542	1/29/98	1/29/98		0.500	10.8	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*92.2*	%	
U-2			P801382-02				Water	
Benzene	0280190	2/10/98	2/10/98		0.500	4.55	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	2.80	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*99.4*	%	
B-17			P801382-03				Water	
Benzene	0280190	2/10/98	2/10/98		5.00	435	ug/l	
Toluene	"	"	"		5.00	9.42	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*99.4*	%	
B-17-D			P801382-04				Water	
Benzene	0280190	2/10/98	2/10/98		5.00	413	ug/l	
Toluene	"	"	"		5.00	9.27	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*98.8*	%	
B-36			P801382-05				Water	
Benzene	0280190	2/10/98	2/10/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*88.0*	%	
B-6			P801382-06				Water	
Benzene	0280190	2/10/98	2/10/98		5.00	297	ug/l	
Toluene	"	"	"		5.00	18.7	"	
Ethylbenzene	"	"	"		5.00	501	"	

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

MS
Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-6 (continued)			P801382-06				Water	
Xylenes (total)	0280190	2/10/98	2/10/98		10.0	113	ug/l	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*97.8*	%	
TB-1			P801382-07				Water	
Benzene	0280190	2/10/98	2/10/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*95.8*	%	

NORTH CREEK ANALYTICAL
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Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
U-3			P801382-01				Water	
Arsenic	0280038	2/2/98	2/4/98	EPA 6020	0.00100	0.0231	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0797	"	
Cadmium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/4/98	EPA 6020	0.00100	0.00440	"	
Lead	"	"	"	EPA 6020	0.00100	0.00730	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0280109	2/6/98	2/10/98	EPA 7470A	0.000500	0.000840	"	
U-2			P801382-02				Water	
Arsenic	0280038	2/2/98	2/4/98	EPA 6020	0.00100	0.0113	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0302	"	
Cadmium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/4/98	EPA 6020	0.00100	0.00140	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0280109	2/6/98	2/10/98	EPA 7470A	0.000500	ND	"	
B-17			P801382-03				Water	
Arsenic	0280038	2/2/98	2/4/98	EPA 6020	0.00100	0.0515	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.171	"	
Cadmium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/4/98	EPA 6020	0.00100	0.0140	"	
Lead	"	"	"	EPA 6020	0.00100	0.0142	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0280109	2/6/98	2/10/98	EPA 7470A	0.000500	ND	"	
B-17-D			P801382-04				Water	
Arsenic	0280038	2/2/98	2/4/98	EPA 6020	0.00100	0.0524	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.171	"	
Cadmium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/4/98	EPA 6020	0.00100	0.0142	"	
Lead	"	"	"	EPA 6020	0.00100	0.0136	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0280109	2/6/98	2/10/98	EPA 7470A	0.000500	ND	"	

North Creek Analytical, Inc.

Refer to end of report for text of notes and definitions.

MAS
Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-36			P801382-05				Water	
Arsenic	0280038	2/2/98	2/4/98	EPA 6020	0.00100	0.00610	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.114	"	
Cadmium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/4/98	EPA 6020	0.00100	0.0121	"	
Lead	"	"	"	EPA 6020	0.00100	0.00490	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0280109	2/6/98	2/10/98	EPA 7470A	0.000500	0.000520	"	
B-6			P801382-06				Water	
Arsenic	0280038	2/2/98	2/4/98	EPA 6020	0.00100	0.0326	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.263	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Lead	"	"	2/4/98	EPA 6020	0.00100	0.0396	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00130	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0280109	2/6/98	2/10/98	EPA 7470A	0.000500	0.000520	"	

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Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

Dissolved Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
U-3			P801382-01				Water	
Arsenic	0280051	2/3/98	2/4/98	EPA 6020	0.00100	**0.0219**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0629**	"	
Cadmium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/4/98	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0280022	2/2/98	2/5/98	EPA 7470A	0.000200	**0.000300**	"	
B-17			P801382-03				Water	
Arsenic	0280051	2/3/98	2/4/98	EPA 6020	0.00100	**0.0489**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0834**	"	
Cadmium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/4/98	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00160**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0280022	2/2/98	2/5/98	EPA 7470A	0.000200	ND	"	
B-17-D			P801382-04				Water	
Arsenic	0280051	2/3/98	2/4/98	EPA 6020	0.00100	**0.0510**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0849**	"	
Cadmium	"	"	2/10/98	EPA 6020	0.00100	ND	"	
Chromium	"	"	2/4/98	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00170**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0280022	2/2/98	2/5/98	EPA 7470A	0.000200	ND	"	

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SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
U-3			P801382-01				Water	
Acenaphthene	0180539	1/29/98	2/3/98		0.100	ND	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*75.9*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*105*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*84.4*	"	
U-2			P801382-02				Water	
Acenaphthene	0180539	1/29/98	2/3/98		0.100	**0.117**	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	**0.117**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	2/5/98		2.00	ND	"	1
Phenanthrene	"	"	2/3/98		0.100	**0.113**	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*76.9*	%	

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**Refer to end of report for text of notes and definitions.*

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
U-2 (continued)			P801382-02				Water	
Surrogate: Nitrobenzene-d5	*0180539*	*1/29/98*	*2/3/98*	*35.0-114*		*97.1*	%	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*86.6*	"	
B-17			P801382-03				Water	
Acenaphthene	0180539	1/29/98	2/3/98		2.00	**2.80**	ug/l	I
Acenaphthylene	"	"	"		2.00	ND	"	I
Anthracene	"	"	"		2.00	ND	"	I
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		2.00	ND	"	I
Fluorene	"	"	"		2.00	**7.16**	"	I
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		4.00	ND	"	I
Phenanthrene	"	"	"		2.00	**8.09**	"	I
Pyrene	"	"	"		2.00	ND	"	I
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*NR*	%	*2*
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*NR*	"	*2*
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*42.1*	"	
B-17-D			P801382-04				Water	
Acenaphthene	0180539	1/29/98	2/3/98		2.00	**3.40**	ug/l	I
Acenaphthylene	"	"	"		2.00	ND	"	I
Anthracene	"	"	"		2.00	ND	"	I
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		2.00	ND	"	I
Fluorene	"	"	"		2.00	**9.19**	"	I
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	

North Creek Analytical, Inc.

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Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-17-D (continued)			P801382-04				Water	
Naphthalene	0180539	1/29/98	2/3/98		4.00	ND	ug/l	1
Phenanthrene	"	"	"		2.00	12.9	"	1
Pyrene	"	"	"		2.00	ND	"	1
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*NR*	%	2
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*NR*	"	2
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*37.0*	"	
B-36			P801382-05				Water	
Acenaphthene	0180539	1/29/98	2/3/98		0.100	ND	ug/l	
Acenaphthylene	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.200	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
Phenanthrene	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*78.5*	%	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*97.5*	"	
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*83.5*	"	
B-6			P801382-06				Water	
Acenaphthene	0180539	1/29/98	2/3/98		2.00	ND	ug/l	1
Acenaphthylene	"	"	"		2.00	ND	"	1
Anthracene	"	"	"		2.00	ND	"	1
Benzo (a) anthracene	"	"	"		2.00	ND	"	1
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		2.00	ND	"	1

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SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
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Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-6 (continued)			P801382-06				Water	
Dibenzo (a,h) anthracene	0180539	1/29/98	2/3/98		0.200	ND	ug/l	
Fluoranthene	"	"	"		2.00	ND	"	1
Fluorene	"	"	"		2.00	ND	"	1
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		2.00	76.8	"	1
Phenanthrene	"	"	"		2.00	12.9	"	1
Pyrene	"	"	"		2.00	ND	"	1
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*NR*	%	*2*
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*NR*	"	*2*
Surrogate: p-Terphenyl-d14	"	"	"	*33.0-141*		*NR*	"	*2*

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180542	**Date Prepared: 1/29/98**					**Extraction Method: EPA 5030**				
Blank	**0180542-BLK1**									
Benzene	1/29/98			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*46.2*	"	*75.0-120*	*92.4*			
LCS	**0180542-BS2**									
Benzene	1/29/98	20.0		21.3	ug/l	67.0-130	106			
Toluene	"	20.0		21.3	"	75.0-126	106			
Ethylbenzene	"	20.0		20.6	"	76.0-124	103			
Xylenes (total)	"	60.0		62.5	"	75.0-126	104			
Surrogate: 4-BFB	"	*50.0*		*46.4*	"	*75.0-120*	*92.8*			
Matrix Spike	**0180542-MS1**		**P801382-01**							
Benzene	1/29/98	20.0	10.8	33.9	ug/l	67.0-130	116			
Toluene	"	20.0	ND	27.1	"	75.0-126	136			3
Ethylbenzene	"	20.0	ND	24.3	"	76.0-124	121			
Xylenes (total)	"	60.0	ND	74.8	"	75.0-126	125			
Surrogate: 4-BFB	"	*50.0*		*45.7*	"	*75.0-120*	*91.4*			
Matrix Spike Dup	**0180542-MSD1**		**P801382-01**							
Benzene	1/29/98	20.0	10.8	32.8	ug/l	67.0-130	110	13.0	5.31	
Toluene	"	20.0	ND	25.0	"	75.0-126	125	13.0	8.43	
Ethylbenzene	"	20.0	ND	23.2	"	76.0-124	116	15.0	4.22	
Xylenes (total)	"	60.0	ND	68.6	"	75.0-126	114	13.0	9.21	
Surrogate: 4-BFB	"	*50.0*		*40.4*	"	*75.0-120*	*80.8*			
Batch: 0280190	**Date Prepared: 2/10/98**					**Extraction Method: EPA 5030**				
Blank	**0280190-BLK1**									
Benzene	2/10/98			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*49.4*	"	*75.0-120*	*98.8*			
LCS	**0280190-BS2**									
Benzene	2/10/98	20.0		19.4	ug/l	67.0-130	97.0			

North Creek Analytical, Inc.

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	0280190-BS2									
Toluene	2/10/98	20.0		19.0	ug/l	75.0-126	95.0			
Ethylbenzene	"	20.0		19.6	"	76.0-124	98.0			
Xylenes (total)	"	60.0		59.5	"	75.0-126	99.2			
Surrogate: 4-BFB	"	*50.0*		*49.4*	"	*75.0-120*	*98.8*			
Matrix Spike	0280190-MS1		P801382-07							
Benzene	2/10/98	20.0	ND	24.8	ug/l	67.0-130	**124**			
Toluene	"	20.0	ND	20.2	"	75.0-126	**101**			
Ethylbenzene	"	20.0	ND	23.3	"	76.0-124	**116**			
Xylenes (total)	"	60.0	ND	62.2	"	75.0-126	**104**			
Surrogate: 4-BFB	"	*50.0*		*51.8*	"	*75.0-120*	*104*			
Matrix Spike Dup	0280190-MSD1		P801382-07							
Benzene	2/10/98	20.0	ND	25.2	ug/l	67.0-130	**126**	13.0	1.60	
Toluene	"	20.0	ND	20.7	"	75.0-126	**104**	13.0	2.93	
Ethylbenzene	"	20.0	ND	23.7	"	76.0-124	**119**	15.0	2.55	
Xylenes (total)	"	60.0	ND	63.8	"	75.0-126	**106**	13.0	1.90	
Surrogate: 4-BFB	"	*50.0*		*51.1*	"	*75.0-120*	*102*			

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Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0280038	**Date Prepared: 2/2/98**					**Extraction Method: EPA 200/3005**				
Blank	0280038-BLK1									
Arsenic	2/3/98			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	2/9/98			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	2/4/98			ND	"	0.00100				
Selenium	2/3/98			ND	"	0.00100				
Silver	"			ND	"	0.00100				
LCS	0280038-BS1									
Arsenic	2/3/98	0.100		0.101	mg/l	80.0-120	101			
Barium	"	0.100		0.0982	"	80.0-120	98.2			
Cadmium	2/9/98	0.100		0.104	"	80.0-120	104			
Chromium	2/3/98	0.100		0.0953	"	80.0-120	95.3			
Lead	2/4/98	0.100		0.0983	"	80.0-120	98.3			
Selenium	2/3/98	0.100		0.0989	"	75.0-115	98.9			
Silver	"	0.100		0.0933	"	80.0-120	93.3			
Duplicate	0280038-DUP1		P801395-01							
Arsenic	2/3/98		0.00500	0.00430	mg/l			20.0	15.1	
Barium	"		0.0374	0.0385	"			20.0	2.90	
Cadmium	2/9/98		0.00250	0.00260	"			20.0	3.92	
Chromium	2/3/98		ND	ND	"			20.0		
Lead	2/4/98		0.0199	0.0200	"			20.0	0.501	
Selenium	2/3/98		0.00380	0.00360	"			20.0	5.41	
Silver	"		ND	ND	"			20.0		
Matrix Spike	0280038-MS1		P801395-01							
Arsenic	2/3/98	0.100	0.00500	0.106	mg/l	75.0-125	101			
Barium	"	0.100	0.0374	0.136	"	75.0-125	98.6			
Cadmium	2/9/98	0.100	0.00250	0.101	"	75.0-125	98.5			
Chromium	2/3/98	0.100	ND	0.106	"	75.0-125	106			
Lead	2/4/98	0.100	0.0199	0.108	"	75.0-125	88.1			
Selenium	2/3/98	0.100	0.00380	0.0982	"	75.0-125	94.4			
Silver	"	0.100	ND	0.0883	"	75.0-125	88.3			
Matrix Spike	0280038-MS2		P801370-02							
Arsenic	2/4/98	0.100	0.00250	0.0963	mg/l	75.0-125	93.8			

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Refer to end of report for text of notes and definitions.

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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SPOKANE • (509) 924-9200 • FAX 924-9290
PORTLAND • (503) 643-9200 • FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	0280038-MS2		P801370-02							
Barium	2/4/98	0.100	0.0388	0.137	mg/l	75.0-125	98.2			
Cadmium	2/10/98	0.100	ND	0.101	"	75.0-125	101			
Chromium	2/4/98	0.100	0.00240	0.103	"	75.0-125	101			
Lead	"	0.100	ND	0.0842	"	75.0-125	84.2			
Selenium	"	0.100	ND	0.0862	"	75.0-125	86.2			
Silver	"	0.100	ND	0.0875	"	75.0-125	87.5			
Batch: 0280109	Date Prepared: 2/6/98					Extraction Method: Metals				
Blank	0280109-BLK1									
Mercury	2/10/98			ND	mg/l	0.000500				
LCS	0280109-BS1									
Mercury	2/10/98	0.00500		0.00380	mg/l	80.0-120	76.0			3
Duplicate	0280109-DUP1		P801382-01							
Mercury	2/10/98		0.000840	0.00120	mg/l			20.0	35.3	4
Matrix Spike	0280109-MS1		P801382-01							
Mercury	2/10/98	0.00500	0.000840	0.00380	mg/l	75.0-125	59.2			5
Matrix Spike	0280109-MS2		P801394-05							
Mercury	2/10/98	0.00500	ND	0.00350	mg/l	75.0-125	70.0			5

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SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

Dissolved Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0280022	**Date Prepared: 2/2/98**					**Extraction Method: EPA 7470**				
Blank	**0280022-BLK1**									
Mercury	2/5/98			ND	mg/l	0.000200				
LCS	**0280022-BS1**									
Mercury	2/5/98	0.00500		0.00490	mg/l	80.0-120	98.0			
Duplicate	**0280022-DUP1**		**P801395-01**							
Mercury	2/5/98		0.000720	0.000320	mg/l			20.0	76.9	4
Matrix Spike	**0280022-MS1**		**P801395-01**							
Mercury	2/5/98	0.00500	0.000720	0.00520	mg/l	75.0-125	89.6			
Batch: 0280051	**Date Prepared: 2/3/98**					**Extraction Method: EPA 200/3005**				
Blank	**0280051-BLK1**									
Arsenic	2/4/98			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	"			ND	"	0.00100				
LCS	**0280051-BS1**									
Arsenic	2/4/98	0.100		0.0968	mg/l	80.0-120	96.8			
Barium	"	0.100		0.0991	"	80.0-120	99.1			
Cadmium	2/10/98	0.100		0.102	"	80.0-120	102			
Chromium	2/4/98	0.100		0.0985	"	80.0-120	98.5			
Lead	"	0.100		0.0857	"	80.0-120	85.7			
Selenium	"	0.100		0.0961	"	75.0-105	96.1			
Silver	"	0.100		0.0927	"	80.0-120	92.7			
Duplicate	**0280051-DUP1**		**P801442-03**							
Arsenic	2/4/98		0.00140	0.00120	mg/l			20.0	15.4	
Barium	"		0.00820	0.00810	"			20.0	1.23	
Cadmium	2/10/98		ND	ND	"			20.0		
Chromium	2/4/98		0.00420	0.00470	"			20.0	11.2	
Lead	"		ND	ND	"			20.0		
Selenium	"		ND	ND	"			20.0		

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

Dissolved Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	0280051-DUP1		P801442-03							
Silver	2/4/98		ND	ND	mg/l			20.0		
Matrix Spike	0280051-MS1		P801442-03							
Arsenic	2/4/98	0.100	0.00140	0.100	mg/l	75.0-125	98.6			
Barium	"	0.100	0.00820	0.108	"	75.0-125	99.8			
Cadmium	2/10/98	0.100	ND	0.102	"	75.0-125	102			
Chromium	2/4/98	0.100	0.00420	0.109	"	75.0-125	105			
Lead	"	0.100	ND	0.0860	"	75.0-125	86.0			
Selenium	"	0.100	ND	0.0947	"	75.0-125	94.7			
Silver	"	0.100	ND	0.0918	"	75.0-125	91.8			

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

Polynuclear Aromatic Compounds per EPA 8270M-SIM/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180539	**Date Prepared: 1/29/98**					**Extraction Method: EPA 3520/600 Series**				
Blank	**0180539-BLK1**									
Acenaphthene	2/2/98			ND	ug/l	0.100				
Acenaphthylene	"			ND	"	0.100				
Anthracene	"			ND	"	0.100				
Benzo (a) anthracene	"			ND	"	0.100				
Benzo (a) pyrene	"			ND	"	0.100				
Benzo (b) fluoranthene	"			ND	"	0.100				
Benzo (ghi) perylene	"			ND	"	0.100				
Benzo (k) fluoranthene	"			ND	"	0.100				
Chrysene	"			ND	"	0.100				
Dibenzo (a,h) anthracene	"			ND	"	0.200				
Fluoranthene	"			ND	"	0.100				
Fluorene	"			ND	"	0.100				
Indeno (1,2,3-cd) pyrene	"			ND	"	0.100				
Naphthalene	"			ND	"	0.100				
Phenanthrene	"			ND	"	0.100				
Pyrene	"			ND	"	0.100				
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.34*	"	*43.0-116*	*93.6*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.72*	"	*35.0-114*	*109*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*2.93*	"	*33.0-141*	*117*			
LCS	**0180539-BS1**									
Acenaphthylene	2/2/98	5.00		5.56	ug/l	50.0-150	111			
Benzo (k) fluoranthene	"	5.00		5.11	"	50.0-150	102			
Pyrene	"	5.00		5.49	"	50.0-150	110			
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.39*	"	*43.0-116*	*95.6*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.65*	"	*35.0-114*	*106*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*2.75*	"	*33.0-141*	*110*			
LCS Dup	**0180539-BSD1**									
Acenaphthylene	2/2/98	5.00		5.84	ug/l	50.0-150	117	60.0	5.26	
Benzo (k) fluoranthene	"	5.00		5.00	"	50.0-150	100	60.0	1.98	
Pyrene	"	5.00		5.54	"	50.0-150	111	60.0	0.905	
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.39*	"	*43.0-116*	*95.6*			
Surrogate: Nitrobenzene-d5	"	*2.50*		*2.61*	"	*35.0-114*	*104*			
Surrogate: p-Terphenyl-d14	"	*2.50*		*2.77*	"	*33.0-141*	*111*			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

MAS

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL #0608, Portland, OR	Sampled: 1/27/98
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 1/28/98
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 2/12/98 18:00

Notes and Definitions

#	Note
1	The reporting limit for this analyte was raised due to matrix interference.
2	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
3	The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
4	Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
5	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical, Inc.

Mary A. Fritzmann Smith, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202 ✓

UNOCAL CHAIN OF CUSTODY REPORT

PS01382

COPPOR00005337

UNOCAL INFORMATION

Facility Number: 0608
Site Address: 5528 NW Doane Ave.
City, State, ZIP: Portland, OR 97210
Site Release Number:
Unocal Manager: Marty Cramer
CERT INFO: (check one) o Evaluation o Remediation
o Detection o Demolition o Closure o Miscellaneous

CONSULTANT INFORMATION

Firm: P.E.G. Project Number: 1115-300.2A
Address: 7320 SW Hunziker St. Suite 320 Portland, OR 97223
Phone: 639-6305 Fax: 639-7482
Project Manager: Kevin Freeman
Sample Collection by: Cale Fleming

Chain of Custody Record #:

Quality Assurance Data Level:
[A] [B]
A: Standard Summary
B: Standard + Chromatograms
Laboratory Turnaround Days:
[W] [5] [3] [2] [1]

o Oregon o Washington Hydrocarbon Methods

SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W,S,O)	# OF CONTAINERS	TPH-HCID	TPH-Gas	BTEX (EPA 8020 Mod.)	TPH-Gas + BTEX	TPH-Diesel	TPH-Diesel Extended	TPH-418.1	Halogen. Volatiles (EPA 8010)	Aromatic Volatiles (EPA 8020)	Pesticides/PCBs or PCBs Only	GC/MS Volatiles (EPA 8240/8260)	GC/MS Semi-Vol. (EPA 8270)	PAHs by HPLC (EPA 8310) 8270 SIM	Lead: Total or Dissolved	TCLP Metals (8)	RCRA 8 - Total	RCRA 8 Metals Dissolved	NCA SAMPLE NUMBER
1. U-3	1-27-98	W	5			✓										✓		✓		✓	* PAH's by 8270
2. U-2			4			✓										✓		✓			SIM.
3. B-17			5			✓										✓		✓		✓	
4. B-17-D			5			✓										✓		✓		✓	** Dissolved Metals
5. B-36			4			✓										✓		✓			are field-filtered
6. B-6			4			✓										✓		✓			
7. TB-1	↓	↓	2			✓															
8.																					
9.																					
10.																					

Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time
1. Cale Fleming	P.E.G.	1-28-98 1245	[illegible]	NCA	1-28-98 1245
2. [illegible]	[illegible]	1-28-98 1325	Kari Cline	NCA	1/28/98 1325
3.					

Page 1 of 1
Rev. 2.2, 11/94

Comments:

Final Report Approval

Were all requested results provided? [yes] [no] Define
Were results within requested turnaround? [yes] [no] "No"
Final Approval Signature: on back
Firm: Date:

PACIFIC
ENVIRONMENTAL
GROUP, INC.

AN EA COMPANY

April 2, 1998
Project 1115-099.2A

Ms. Jill Kiernan, P.E.
Waste Management and Cleanup, Northwest Region
Oregon Department of Environmental Quality
2020 SW Fourth Avenue, Suite 400
Portland, Oregon 97204

Re: Fourth Quarter (September - November) 1997 Report
RI/FS Interim Action
Consent Order WMCSR-NWR-94-06
Willbridge Bulk Fuels Area Project
Portland, Oregon

Dear Ms. Kiernan:

Pacific Environmental Group, Inc. (PEG), is pleased to present the fourth quarter 1997 progress report for the remedial investigation/feasibility study (RI/FS) work being performed at the Chevron, Tosco, and GATX terminals which compose the Willbridge Facility in Portland, Oregon (Figure 1). This letter presents a summary of the following:

- Actions taken under the Consent Order from September to November 1997.
- Fourth Quarter 1997 sampling, test results, and other data generated between September and November 1997.

This progress report fulfills the requirement of Section 7F of Oregon Department of Environmental Quality (DEQ) Consent Order WMCSR-NWR-94-06.

ACTIVITIES PERFORMED FOURTH QUARTER 1997

The following work was performed during September through November 1997:

7233 SW Kable Lane, Suite 900, Bldg. F • Portland, Oregon 97224-7183 (503) 639-6305 FAX (503) 639-7482

- Performed quarterly groundwater sampling at the Chevron, GATX, and Tosco terminals. This quarterly sampling event was used to collect groundwater quality data to be used in preparation of the Remedial Investigation (RI) report for the facility. As such, groundwater sampling for this quarter was performed according to rationale and procedures outlined in the September 8, 1997 RI Work Plan for the facility.
- Performed monthly separate-phase hydrocarbon (SPH) removal from wells located on the Tosco, Chevron, and GATX terminals.

FOURTH QUARTER 1997 MONITORING ANALYSIS

Interim action monitoring activities performed during the fourth quarter included water level and SPH thickness measurements and groundwater sampling from selected wells, as outlined in the RI Work Plan Appendix A - Field Sampling Plan, dated September 8, 1997.

Hydrogeological Analysis

Water level measurements were performed in October 1997. Measurements were corrected for SPH where encountered. A groundwater table contour map using the October 1997 data is shown on Figures 2A and 2B. The October 1997 groundwater elevation data is presented in Table 1. Water elevation and SPH recovery data for October 1997 and historic water elevation measurements are presented in Table 5.

During the fourth quarter (September through November 1997), water table elevations in the vicinity of the river decreased from third quarter levels by approximately 1 foot, while water table elevations in upgradient facility wells decreased by approximately 0.5 foot. These changes are likely in response to continued decline in river stage combined with cessation of upgradient recharge.

The direction of groundwater flow, inferred from the elevation contours, is generally toward the river, with a localized groundwater mound in the GATX south tank farm, and apparent elongated groundwater depressions (troughs) in the vicinity of Doane Avenue and the Saltzman Creek flume.

Hydrological Analysis

The Willamette River stage (measured at the Morrison Bridge river gauge and converted to City of Portland datum) ranged from a quarterly high of 10.15 feet on October 31 to a low of 6.04 feet October 23, 1997. The river stage averaged approximately 7.53 feet between October 21 and November 4, 1997, the dates of the fourth quarter groundwater monitoring. Precipitation and river stage data are shown on Figure 3.

Groundwater Analytical Results

Groundwater samples collected from selected facility monitoring wells between October 21 and November 4, 1997 were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds by EPA Method 8020, polycylic aromatic hydrocarbons (PAHs) by EPA Method 8270-SIM, and total and dissolved RCRA Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) by EPA Method 6010A/7000 Series.

The October 1997 BTEX results are presented in Table 2 and historic BTEX results are presented in Table 6. The October 1997 PAH results are presented in Table 3 and historic PAH results are presented in Table 7. The metals results are presented in Tables 4A and 4B. Certified analytical results for the October 1997 sampling event are presented in Attachment A. Samples were not collected from wells containing SPH (as designated by **NS/F** in the tables).

Samples were collected from additional wells at the facility in order to accomplish the groundwater sampling program as presented in the RI Work Plan. These additional wells were: Wells B-15, B-19, B-24, B-26, B-29, B-31, and B-32 at the Chevron terminal; Wells MW-1, MW-3, MW-4, MW-6, MW-9, MW-12, MW-17, MW-18, MW-20, MW-29, MW-30, and MW-34 at the GATX terminal and; Wells B-2, B-6, B-16, and B-41 and the Tosco terminal.

BTEX Compounds

The October 1997 BTEX testing results appear to be consistent with the July 1997 results. Concentrations of BTEX decreased in Wells B-11, B-14, CR-8, MW-10, MW-11, MW-15, MW-37, B-17, U-2, and U-3. Concentrations in Wells B-10, B-14, B-28, B-30, CR-11, MW-22, MW-8, B-35, and U-5 increased from the last quarter results.

Newly sampled Wells B-15, B-24, B-26, B-31, MW-3, MW-6, MW-18, MW-23, MW-27, MW-30, B-2, B-6, B-16, and B-41 reported detectable concentrations of BTEX constituents.

The BTEX levels were non-detect in Wells B-7, B-9, CR-9, MW-13, MW-21, MW-28, MW-31, MW-32, MW-33, MW-36, MW-40, B-18, B-36, B-37, U-2, and U-3.

Newly sampled Wells B-29, B-32, MW-1, MW-4, MW-9, MW-12, MW-17, MW-20, MW-29, MW-34, and B-40 were non-detect for BTEX constituents.

PAH Compounds

The October 1997 PAH analytical results reported increased PAH concentrations with respect to July 1997 results. Concentrations of PAHs increased in Wells B-9, B-14, B-30, MW-8, MW-10, MW-15, MW-31, MW-36, MW-37, B-17, B-18, B-35, U-2, and U-3. Concentrations decreased in Wells CR-11 and U-5 only. Concentrations remained consistent in Wells CR-8 and MW-22.

Concentrations of carcinogenic PAHs (CPAHs) generally increased from July 1997 results. CPAHs were detected in Wells B-30, CR-8, MW-15, MW-31, MW-37, B-17, B-18, and B-35. All other wells analyzed for PAHs were non-detect for CPAHs.

Wells CR-9, MW-13, MW-21, MW-32, MW-33, MW-40, B-36, and B-37 were reported as non-detect for all PAH compounds at method detection limits.

Newly sampled Wells B-15, B-29, B-31, B-32, MW-3, MW-4, MW-6, MW-17, MW-18, MW-27, MW-30, MW-34, B-2, B-40, and B-41 reported detectable concentrations of non-carcinogenic PAHs. Newly sampled Wells B-24, B-26, MW-9, B-6, and B-16 reported detectable concentrations of non-carcinogenic PAHs and CPAHs. Newly sampled Wells MW-1, MW-12, MW-20, and MW-29 were non-detect for all PAH compounds at method detection limits

Metals

Analytical results for total metals report concentrations of arsenic, barium, and lead in all sampled wells. Cadmium was detected in 32 wells, chromium in 49 wells, mercury in 21 wells, selenium in 14 wells, and silver in 13 of the 57 wells sampled. Concentrations of total metals remained below 1 part per million in all sampled wells.

Analytical results for dissolved metals report concentrations of arsenic and barium in all sampled wells. Cadmium was detected in 3 wells, chromium in 4 wells, lead in 6 wells, mercury in 2 wells, and silver in 2 of the 16 wells sampled. Selenium was not detected in a dissolved state.

Separate-Phase Hydrocarbon Analysis

Separate-phase hydrocarbon thicknesses were measured at selected wells on a monthly basis (Tables 1 and 5). Apparent SPH thickness data for October 1996 and January, April, July, and October 1997 are shown on Figures 3A and 3B.

The October 1997 product measurements generally indicate SPH thicknesses similar to previous quarter measurements in the riverfront area wells (Table 2). North of Front Avenue, SPH was measured in Tosco Wells B-1, B-4, B-22, B-27, B-38, B-39, RES-N, IT-E, and Chevron Well B-20.

Within the tank farm areas, SPH was measured in Tosco Wells U-4 and U-5A. Separate-phase hydrocarbon thicknesses were also measured in CR-6 and CR-10, along the perimeter of the Chevron tank farm. Separate-phase hydrocarbon was measured in Wells MW-7, MW-11, MW-23, MW-26, and MW-28 south of Front Avenue within the GATX terminal.

SEPARATE-PHASE HYDROCARBON RECOVERY

Monthly manual recovery of SPH at the facility was initiated in early February 1997. Approximately 369 gallons of SPH have been removed to date by manual recovery methods. Approximately 30 gallons were manually recovered from September through November 1997.

Separate-phase hydrocarbon recovery by pumping was performed September 29, October 16, and November 24, 1997. Approximately 12.5 gallons of SPH were removed from Wells MW-7, MW-11, MW-23, MW-24, MW-26, and MW-28 at the GATX terminal. Approximately 13 gallons of SPH were removed from Wells B-1, B-4, B-22, B-27, B-38, B-39, B-40, IT-E, RES-N, U-4, and U-5A at the Tosco terminal. Approximately 5 gallons of SPH were removed from Wells B-20, CR-6, CR-7, and CR-10 at the Chevron terminal. The SPH recovery data is presented in Table 1.

Seep and Sheen Monitoring

Containment booms currently encompass the shoreline between the Chevron and Tosco docks, and from the south edge of the Tosco dock to the southern property line (beyond the new Doane Avenue storm sewer outfall). Additionally, secondary containment booms are located inside of the first boom around the new Doane Avenue outfall pipe. Seeps and sheens are monitored by terminal personnel; significant sheens are reported to PEG for further evaluation.

No sheening events were reported during fourth quarter 1997.

As requested by DEQ, a groundwater sample was collected from Well RES-N prior to commencement of interim action barrier construction. A slight free-product sheen, detectable by eye but not by instrument, was present in the well prior to purging. Approximately 188 gallons were purged from RES-N prior to sampling. The well was sampled and analyzed for BTEX and PAH constituents. Results are presented in Tables 2 and 3.

PROBLEMS ENCOUNTERED DURING FOURTH QUARTER 1997

No problems were encountered during September 1997 through November 1997.

ACTIVITIES SCHEDULED FOR FIRST QUARTER 1998 (DECEMBER 1997 - FEBRUARY 1998)

The following actions are scheduled for first quarter 1998:

- Monthly SPH removal from identified wells.
- Gauging of water level elevations and SPH in all facility wells during the first quarter sampling event, scheduled for January 1998.

PEG appreciates the opportunity to be of service. If you have any questions regarding this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

Kevin M. Freeman
Project Hydrogeologist

Lance Geselbracht, P.E.
Senior Engineer

As requested by DEQ, a groundwater sample was collected from Well RES-N prior to commencement of interim action barrier construction. A slight free-product sheen, detectable by eye but not by instrument, was present in the well prior to purging. Approximately 188 gallons were purged from RES-N prior to sampling. The well was sampled and analyzed for BTEX and PAH constituents. Results are presented in Tables 2 and 3.

PROBLEMS ENCOUNTERED DURING FOURTH QUARTER 1997

No problems were encountered during September 1997 through November 1997.

ACTIVITIES SCHEDULED FOR FIRST QUARTER 1998 (DECEMBER 1997 - FEBRUARY 1998)

The following actions are scheduled for first quarter 1998:

- Monthly SPH removal from identified wells.
- Gauging of water level elevations and SPH in all facility wells during the first quarter sampling event, scheduled for January 1998.

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Pacific Environmental Group, Inc.

Kevin M. Freeman
Project Hydrogeologist

Lance Geselbracht, P.E.
Senior Engineer

Attachments: Figure 1 - Site Location Map
Figure 2A - Groundwater Elevation Contour Map (October 1997)
Figure 2B - Groundwater Elevation Contour Map (October 1997)
Figure 3A - Apparent Separate-Phase Hydrocarbon Thickness (October 1996 to October 1997)
Figure 3B - Apparent Separate-Phase Hydrocarbon Thickness (October 1996 to October 1997
Figure 4 - Precipitation and River Stage Hydrograph, Fourth Quarter 1997
Table 1 - Groundwater Elevation Data and SPH Recovery Data
Table 2 - Groundwater Analytical Results (Fourth Quarter BTEX)
Table 3 - Groundwater Analytical Results (Fourth Quarter PAHs)
Table 4A - Groundwater Analytical Results (Fourth Quarter Total Metals)
Table 4B - Groundwater Analytical Results (Fourth Quarter Dissolved Metals)
Table 5 - Groundwater Elevation and SPH Recovery Data (March 1995 to November 1997)
Table 6 - Groundwater Analytical Results (January 1995 - November 1997 BTEX)
Table 7 - Groundwater Analytical Results (April 1996 to November 1997 PAHs)
Attachment A - Sampling Protocol, Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Irv Jenkins, Shell Oil Products Company
Mr. Gerald O'Regan, Chevron Products Company
Mr. Marty Cramer, Tosco Distribution Company
Mr. Eric Conard, GATX Terminals Corporation

Figure 4
Precipitation and River Stage
September - November 1997
Willbridge Facility

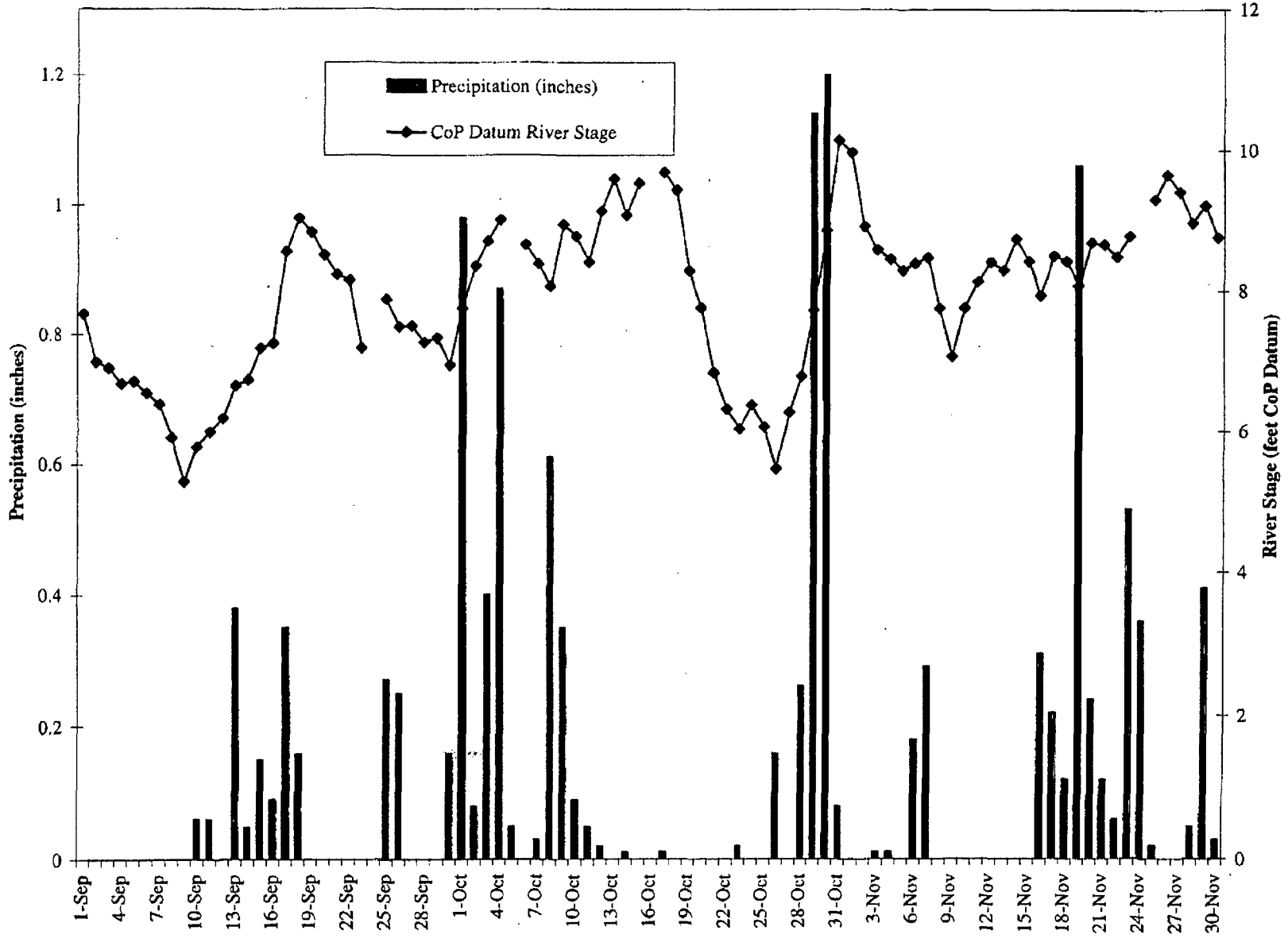

Table 1 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco				
B-1	34.79	10/14/97	17.68	0.62	18.30	17.02	0.50
B-2	35.35	10/14/97	NP	0.00	17.57	17.78	0.00
B-3	36.79	10/14/97	NP	0.00	19.38	17.41	0.00
B-4	34.79	10/15/97	18.55	0.01	18.56	16.24	1.50
B-5	34.83	10/14/97	NP	0.00	17.10	17.73	0.00
B-6	35.41	10/14/97	NP	0.00	17.47	17.94	0.00
B-16	35.82	10/14/97	NP	0.00	17.79	18.03	0.00
B-17	35.59	10/14/97	NP	0.00	17.74	17.85	0.00
B-18	35.79	10/14/97	NP	0.00	19.64	16.15	0.00
B-22	35.83	10/14/97	19.56	0.04	19.60	16.26	1.75
B-25	37.60	10/14/97	NP	0.00	19.75	17.85	0.00
B-27	35.74	10/15/97	18.52	0.01	18.53	17.22	0.75
B-35	33.58	10/14/97	NP	0.00	16.57	17.01	0.00
B-36	30.97	10/14/97	NP	0.00	15.55	15.42	0.00
B-37	35.24	10/14/97	NP	0.00	20.86	14.38	0.00
B-38	34.75	10/14/97	20.30	0.01	20.31	14.45	1.50
B-39	33.92	10/15/97	19.45	0.76	20.21	14.36	3.30
B-40	33.19	10/14/97	NP	0.00	19.89	13.30	0.25
B-41	34.85	10/14/97	NP	0.00	19.40	15.45	0.00
IT-E	36.44	10/14/97	20.69	0.03	20.72	15.75	0.80
IT-W	35.99	10/14/97	NP	0.00	18.33	17.66	0.00
RES-N	38.58	10/14/97	23.84	0.02	23.86	14.74	1.30
RES-O	36.03	10/14/97	NP	0.00	18.39	17.64	0.00
U-2	35.02	10/15/97	NP	0.00	16.28	18.74	0.00
U-3	35.25	10/15/97	NP	0.00	14.23	21.02	0.00
U-4	34.46	10/15/97	16.50	0.01	16.51	17.96	0.75
U-5	34.20	10/15/97	NP	0.00	19.87	14.33	0.00
U-5A	33.77	10/15/97	7.88	0.01	7.89	25.89	0.50
					Tosco total SPH Recovered to Date:		**12.90**
					Complete total SPH Recovered to Date:		**30.45**

Notes:

SPH = Separate-phase hydrocarbon
NP = No product
NA = Not available
NM = Not measured
* = Groundwater elevation (GWE) is corrected for the presence of SPH using:
GWE = toc - (DTW + (SPH thickness x Specific gravity of SPH)) Specific gravity used is 0.85
** = SPH recovered represents total recovered for reported quarter.

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Table 2
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron			
B-7	10/22/97	ND	ND	ND	ND
B-9	10/22/97	ND	ND	ND	ND
Duplicate	10/22/97	ND	ND	ND	ND
B-10	10/21/97	92.5	ND	ND	ND
B-11	10/21/97	175	15.5	15.5	34.3
B-14	10/22/97	1,650	91.4	520	109
Duplicate	10/22/97	1,820	103	576	137
B-15	10/22/97	83.0	3.54	ND	5.96
B-24	10/23/97	658	ND	ND	ND
Duplicate	11/04/97	420	ND	ND	ND
B-26	10/21/97	244	16.4	619	62.4
B-28	10/23/97	25.4	1.04	11.4	ND
B-29	10/22/97	ND	ND	ND	ND
B-30	10/23/97	96.8	8.51	4.09	19.7
B-31	10/23/97	8.10	3.68	7.15	21.3
B-32	10/22/97	ND	ND	ND	ND
CR-9	10/23/97	ND	ND	ND	ND
CR-11	10/23/97	84.0	3.14	2.32	3.68

Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX			
MW-1	10/28/97	ND	ND	ND	ND
MW-3	10/28/97	2.68	9.77	ND	15.6
MW-4	10/28/97	ND	ND	ND	ND
MW-6	10/28/97	5.63	3.49	ND	1.23
MW-8	10/30/97	358	26.6	299	845
MW-9	10/27/97	ND	ND	ND	ND
MW-10	10/27/97	8.35	ND	ND	ND
Duplicate	10/27/97	5.42	ND	ND	ND
MW-12	10/28/97	ND	ND	ND	ND
MW-13	10/27/97	ND	ND	ND	ND
Duplicate	10/27/97	ND	ND	ND	ND
MW-15	10/30/97	1.15	ND	1.66	6.32
MW-17	10/30/97	ND	ND	ND	ND
MW-18	10/30/97	ND	ND	ND	5.40
MW-20	10/28/97	ND	ND	ND	ND
MW-21	10/29/97	ND	ND	ND	ND
Duplicate	11/04/97	ND	ND	ND	ND
MW-22	10/29/97	2,090	2,820	4,880	14,900
MW-27	10/29/97	959	ND	ND	ND
MW-29	10/29/97	ND	ND	ND	ND
MW-30	10/29/97	ND	ND	ND	5.31
MW-31	10/29/97	ND	ND	ND	ND
MW-32	10/29/97	ND	ND	ND	ND

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Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-33	10/31/97	ND	ND	ND	ND
Duplicate	11/04/97	ND	ND	ND	ND
MW-34	10/31/97	ND	ND	ND	ND
MW-36	10/31/97	ND	ND	ND	ND
MW-37	10/31/97	767	ND	ND	29.7

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Table 2 (*continued*)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco			
B-2	10/27/97	5.94	3.91	ND	1.41
B-6	10/27/97	273	ND	990	237
B-16	10/27/97	58.4	ND	ND	ND
B-17	10/24/97	712	10.0	21.6	13.6
Duplicate	11/04/97	624	17.5	17.7	ND
B-18	10/24/97	ND	ND	ND	ND
B-35	10/24/97	13.5	7.60	20.8	32.1
B-36	10/24/97	ND	ND	ND	ND
B-37	10/24/97	ND	ND	ND	ND
Duplicate	10/24/97	ND	ND	ND	ND
B-40	10/24/97	ND	ND	ND	ND
B-41	10/24/97	90.7	3.29	9.80	15.6
RES-N	11/10/97	29.1	2.18	2.06	2.59
U-2	10/23/97	ND	ND	ND	ND
U-3	10/24/97	ND	ND	ND	ND
U-5	10/24/97	ND	ND	0.698	ND

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Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
Tosco (continued)					

Notes:

ppb = Parts per billion
ND = Not detected
NS = Not sampled
NS/F = Not sampled floating product present
NA = Not analyzed, not applicable
BTEX by EPA Method 8020

Table 3
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron																	
B-7	10/22/97	2.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.58	ND	ND	2.18	0.576
B-9	10/22/97	3.90	ND	0.122	ND	ND	ND	ND	ND	ND	ND	ND	19.3	ND	ND	2.62	ND
Duplicate	10/22/97	6.16	ND	0.508	ND	ND	ND	ND	ND	ND	ND	ND	28.4	ND	ND	15.0	1.40
B-10	10/21/97	1.22	ND	0.167	ND	ND	ND	ND	ND	ND	ND	0.118	3.65	ND	ND	4.19	0.183
B-11	10/21/97	1.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.83	ND	ND	1.56	ND
B-14	10/22/97	1.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.398	3.48	ND	29.6	3.02	0.741
Duplicate	10/22/97	1.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.454	3.63	ND	36.4	2.76	0.750
B-15	10/22/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	172	ND	ND	264	14.5
B-24	10/23/97	ND	ND	ND	1.27	0.203	0.336	0.0640	ND	1.04	ND	ND	32.1	0.0599	ND	39.1	14.6
Duplicate	11/04/97	3.41	ND	1.06	0.686	0.110	0.0929	ND	0.0852	0.576	ND	1.91	9.71	ND	ND	15.1	2.39
B-26	10/21/97	2.74	ND	ND	1.36	1.02	2.98	1.03	ND	2.29	ND	3.49	9.30	ND	242	13.1	5.20
B-28	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.32	ND	0.102
B-29	10/22/97	0.0798	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.129	ND	ND	0.0631	0.0650
B-30	10/23/97	0.0940	ND	ND	0.0513	0.0628	0.0855	0.0562	ND	0.0571	ND	0.0901	0.0990	0.0531	ND	0.158	0.230
B-31	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.7	ND	18.3	28.7	ND
B-32	10/22/97	0.108	ND	ND	ND	ND	ND	ND	ND	0.142	ND	0.609	0.901	ND	ND	ND	0.574
CR-9	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CR-11	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.811	ND	ND	ND	ND

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Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX																	
MW-1	10/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-3	10/28/97	ND	ND	0.161	ND	ND	ND	ND	ND	ND	ND	0.232	ND	ND	ND	0.848	0.239
MW-4	10/28/97	1.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.666	7.02	ND	ND	5.01	0.811
MW-6	10/28/97	2.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.92	ND	ND	8.69	0.598
MW-8	10/30/97	0.276	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.0	0.154	0.0973
MW-9	10/27/97	ND	ND	ND	0.0711	0.0967	0.0777	0.0711	0.0678	0.0853	ND	0.0919	ND	0.0502	ND	0.0706	0.126
MW-10	10/27/97	0.0838	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	10/27/97	0.0767	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-12	10/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	10/27/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	10/27/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15	10/30/97	0.0521	ND	ND	0.130	0.128	0.146	0.103	0.135	0.169	ND	0.294	ND	0.0948	0.0640	0.207	0.331
MW-17	10/30/97	0.124	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0586	0.279	ND	ND	ND	0.0833
MW-18	10/30/97	2.82	53.3	0.146	ND	ND	ND	ND	ND	0.0533	ND	0.154	1.98	ND	ND	0.790	0.201
MW-20	10/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-21	10/29/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	11/04/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-22	10/29/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.630	ND	397	0.556	ND
MW-27	10/29/97	ND	ND	0.561	ND	ND	ND	ND	ND	ND	ND	0.704	ND	ND	ND	0.755	0.862

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Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-29	10/29/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-30	10/29/97	0.116	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.318	ND	ND	ND	ND
MW-31	10/29/97	1.24	ND	ND	ND	ND	ND	ND	ND	0.0777	ND	0.575	5.12	ND	ND	4.40	0.375
MW-32	10/29/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-33	10/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	11/04/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-34	10/31/97	0.0607	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-36	10/31/97	0.357	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0806
MW-37	10/31/97	1.01	ND	ND	0.0514	ND	ND	ND	ND	ND	ND	0.0976	1.40	ND	ND	0.218	0.175

COPPOR0005355

Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco																	
B-2	10/27/97	4.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.4	ND	ND	24.3	ND
B-6	10/27/97	ND	ND	0.0887	0.0629	ND	ND	ND	ND	0.0675	ND	0.181	0.683	ND	90.0	0.409	0.256
B-16	10/27/97	1.86	ND	ND	0.0551	ND	ND	ND	ND	0.0691	ND	ND	5.97	ND	ND	6.94	0.332
B-17	10/24/97	8.63	ND	3.63	0.464	ND	ND	ND	ND	0.631	ND	4.40	37.1	ND	ND	56.3	5.46
Duplicate	11/04/97	4.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.4	ND	ND	24.5	2.25
B-18	10/24/97	0.468	ND	ND	ND	0.0700	0.0936	0.0854	ND	0.0613	ND	ND	1.10	0.0676	ND	1.21	0.254
B-35	10/24/97	91.4	ND	71.2	29.6	ND	ND	ND	ND	ND	ND	178	238	ND	ND	479	123
B-36	10/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-37	10/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	10/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0743
B-40	10/24/97	5.39	ND	0.688	ND	ND	ND	ND	ND	ND	ND	ND	13.6	ND	ND	15.5	1.29
B-41	10/24/97	9.63	ND	1.17	ND	ND	ND	ND	ND	ND	ND	0.678	23.0	ND	ND	21.5	2.01
RES-N	11/10/97	2.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.21	ND	ND	5.47	0.446
U-2	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0739
U-3	10/24/97	0.0542	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0731	ND	ND	ND	ND
U-5	10/24/97	1.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.63	ND	ND	4.26	0.461

COPPOR0000356

Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8270 - SIM

COPPOR0005357

Table 4A
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identi-fication	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Chevron				
B-7	10/22/97	26.1	77.4	0.200	1.50	1.00	0.390	ND	2.80
B-9	10/22/97	28.4	219	0.300	26.9	13.5	1.03	1.00	2.60
Duplicate	10/22/97	29.9	205	0.500	28.1	12.5	0.819	ND	1.50
B-10	10/21/97	31.4	66.3	ND	2.73	1.45	ND	ND	ND
B-11	10/21/97	35.8	303	0.400	38.9	22.9	ND	1.02	ND
B-14	10/22/97	36.9	153	0.100	13.5	14.0	0.420	ND	ND
Duplicate	10/22/97	36.1	138	ND	9.30	14.4	ND	ND	ND
B-15	10/22/97	47.4	662	14.3	100	85.7	ND	2.00	2.00
B-24	10/23/97	1.20	213	ND	14.5	5.60	0.400	ND	ND
Duplicate	11/04/97	34.8	110	1.42	11.7	6.27	ND	ND	ND
B-26	10/21/97	55.1	633	34.9	98.2	132	0.540	1.96	1.48
B-28	10/23/97	8.20	205	ND	14.2	76.1	ND	1.20	ND
B-29	10/22/97	10.6	981	7.20	82.5	53.1	ND	1.60	ND
B-30	10/23/97	34.5	981	6.70	128	71.6	ND	2.30	3.80
B-31	10/23/97	5.00	198	3.10	8.90	38.0	1.80	ND	5.00
B-32	10/22/97	0.500	119	ND	6.60	3.50	1.03	ND	ND

COPPOR0005358

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				Chevron (continued)					
CR-9	10/23/97	1.80	31.1	ND	ND	2.60	ND	ND	ND
CR-11	10/23/97	55.6	207	1.40	8.90	9.70	ND	2.10	ND

COPPOR0005359

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				GATX					
MW-1	10/28/97	4.09	111	0.190	9.71	7.78	ND	ND	ND
MW-3	10/28/97	18.9	42.6	0.530	2.06	5.11	ND	ND	ND
MW-4	10/28/97	30.8	19.0	ND	ND	3.70	ND	ND	ND
MW-6	10/28/97	41.0	40.2	0.220	ND	1.66	ND	ND	ND
MW-8	10/30/97	14.2	25.5	1.76	ND	1.12	ND	ND	ND
MW-9	10/27/97	66.1	259	0.500	9.10	8.10	0.800	ND	7.10
MW-10	10/27/97	18.8	53.3	0.500	2.40	2.30	0.500	ND	ND
Duplicate	10/27/97	17.5	49.6	ND	2.10	1.80	0.580	ND	ND
MW-12	10/28/97	3.73	24.6	ND	ND	3.88	ND	ND	ND
MW-13	10/27/97	1.60	50.0	ND	1.70	1.90	0.460	ND	ND
Duplicate	10/27/97	2.40	66.4	ND	3.90	2.80	0.590	ND	ND
MW-15	10/30/97	2.03	184	0.730	14.6	20.4	ND	ND	ND
MW-17	10/30/97	1.91	43.8	0.410	1.92	24.1	ND	ND	ND
MW-18	10/30/97	6.49	58.6	0.660	1.11	7.26	ND	ND	ND
MW-20	10/28/97	9.98	278	0.170	2.25	2.56	ND	ND	ND

COPPOR0000536O

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				GATX (continued)					
MW-21	10/29/97	5.25	206	0.280	1.43	11.1	ND	ND	ND
Duplicate	11/04/97	3.54	155	ND	1.05	ND	ND	ND	ND
MW-22	10/29/97	109	172	ND	1.17	7.17	ND	ND	ND
MW-27	10/29/97	20.8	61.0	ND	1.01	5.11	ND	ND	ND
MW-29	10/29/97	8.03	45.7	ND	ND	1.27	ND	ND	ND
MW-30	10/29/97	12.5	17.3	ND	ND	1.61	ND	ND	ND
MW-31	10/29/97	8.37	12.5	ND	ND	1.05	ND	ND	ND
MW-32	10/29/97	ND	15.5	ND	1.10	ND	ND	ND	ND
MW-33	10/31/97	8.05	74.2	ND	1.19	ND	ND	ND	ND
Duplicate	11/04/97	1.84	34.0	ND	ND	1.88	ND	ND	ND
MW-34	10/31/97	14.5	71.3	0.360	2.90	1.81	ND	ND	ND
MW-36	10/31/97	23.6	44.9	ND	1.51	1.28	ND	ND	ND
MW-37	10/31/97	22.2	42.9	ND	1.27	1.19	ND	ND	ND

COPPOR00005361

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				Tosco					
B-2	10/27/97	49.0	87.6	ND	1.32	1.40	0.250	ND	ND
B-6	10/27/97	33.9	254	0.200	25.2	40.7	0.420	1.07	ND
B-16	10/27/97	48.5	362	3.21	41.6	30.3	0.460	1.41	2.37
B-17	10/24/97	51.5	219	ND	19.6	41.9	0.220	1.25	5.59
Duplicate	11/04/97	50.0	183	ND	18.3	24.4	ND	ND	ND
B-18	10/24/97	22.0	273	0.200	31.7	16.2	0.400	1.39	1.10
B-35	10/24/97	52.1	271	0.300	38.1	63.0	520	1.11	520
B-36	10/24/97	8.53	12.2	ND	8.70	3.20	280	ND	ND
B-37	10/24/97	69.4	183	ND	19.5	9.30	660	ND	ND
Duplicate	10/24/97	69.4	183	ND	19.5	9.30	660	ND	ND
B-40	10/24/97	24.6	238	2,000	27.4	11.6	640	ND	1.09
B-41	10/24/97	38.2	313	11.5	44.8	31.4	880	1.56	1.56
U-2	10/23/97	14.7	45.7	0.100	2.78	5.01	ND	ND	ND
U-3	10/24/97	43.2	115	ND	4.29	12.9	ND	1.10	ND

COPPOR0005362

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				Tosco (continued)					
U-5	10/24/97	17.6	84.7	1.57	7.56	5.56	420	ND	ND

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
Total Metals by EPA Method 6000/7000

COPPOR0005363

Table 4B
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identi-fication	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Chevron				
B-9	10/22/97	19.5	64.8	ND	ND	ND	ND	ND	ND
Duplicate	10/22/97	20.8	66.5	ND	1.00	ND	ND	ND	ND
B-14	10/22/97	26.9	66.5	ND	ND	1.30	ND	ND	ND
Duplicate	10/22/97	27.2	70.3	ND	ND	1.70	ND	ND	ND
B-24	10/23/97	37.5	51.5	ND	ND	ND	ND	ND	ND
Duplicate	11/04/97	36.9	49.1	ND	ND	ND	ND	ND	ND
B-30	10/23/97	15.5	72.3	ND	ND	ND	ND	ND	ND

COPPOR0005364

Table 4B (continued)
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					GATX				
MW-10	10/27/97	16.7	44.1	ND	1.20	161	ND	ND	ND
Duplicate	10/27/97	14.6	49.9	ND	1.00	4.90	ND	ND	ND
MW-13	10/27/97	1.20	35.2	ND	ND	1.80	ND	ND	ND
Duplicate	10/27/97	ND	38.3	3.00	ND	3.20	ND	ND	ND
MW-15	10/30/97	1.18	79.2	1.79	ND	ND	ND	ND	1.55
MW-20	10/28/97	4.60	191	ND	ND	ND	ND	ND	ND
MW-21	10/29/97	3.97	163	ND	ND	ND	ND	ND	1.62
Duplicate	11/04/97	3.32	153	ND	ND	ND	ND	ND	ND
MW-32	10/29/97	0.260	10.5	ND	1.46	ND	ND	ND	ND
MW-33	10/31/97	2.91	30.3	0.110	ND	ND	ND	ND	ND
Duplicate	11/04/97	1.37	32.8	ND	ND	ND	ND	ND	ND
MW-37	10/31/97	23.4	42.3	ND	ND	ND	ND	ND	ND

Table 4B (continued)
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identi-fication	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Tosco				
B-2	10/27/97	46.0	74.0	ND	ND	2.50	ND	ND	ND
B-6	10/27/97	24.5	71.5	ND	ND	5.70	ND	ND	ND
B-17	10/24/97	49.2	0.102	ND	1.00	3.30	1.13	ND	ND
Duplicate	11/04/97	51.1	95.7	ND	ND	2.42	ND	ND	ND
B-37	10/24/97	45.7	50.3	ND	ND	ND	1.07	ND	ND
Duplicate	10/24/97	47.4	55.4	ND	ND	ND	441	ND	ND

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
Dissolved Metals by EPA Method 6000/7000

COPPOR0005366

Table 5
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron				
B-7	33.96	03/24/95	18.07	0.00	18.07	15.89	NA
		04/24/95	18.61	0.00	18.61	15.35	NA
		05/22/95	18.56	0.00	18.56	15.40	NA
		06/19/95	18.77	0.00	18.77	15.19	NA
		07/24/95	19.74	0.00	19.74	14.22	NA
		08/28/95	20.03	0.00	20.03	13.93	NA
		09/25/95	19.79	0.01	19.80	14.17	NA
		10/23/95	19.56	0.01	19.57	14.40	NA
		11/27/95	18.61	0.00	18.61	15.35	NA
		12/29/95	17.74	0.00	17.74	16.22	NA
		01/22/96	15.82	0.00	15.82	18.14	NA
		02/26/96	14.09	0.04	14.13	19.86	NA
		03/25/96	17.38	0.01	17.39	16.58	NA
		04/22/96	17.07	0.01	17.08	16.89	NA
		05/28/96	16.46	0.00	16.46	17.50	NA
		06/24/96	17.96	0.00	17.96	16.00	NA
		07/22/96	18.79	0.00	18.79	15.17	NA
		08/26/96	19.18	0.00	19.18	14.78	NA
		09/23/96	19.22	0.00	19.22	14.74	NA
		10/28/96	19.10	0.00	19.10	14.86	NA
		11/25/96	17.95	0.00	17.95	16.01	NA
		01/29/97	NP	0.00	17.24	16.72	0.00
		04/21/97	NP	0.00	17.45	16.51	0.00
		07/28/97	18.60	0.10	18.70	15.35	1.00
		10/15/97	NP	0.00	18.96	15.00	0.00
						SPH Recovered to Date:	**1.00**
B-8	35.90	01/29/97	NP	0.00	15.99	19.91	0.00
		04/21/97	NP	0.00	16.67	19.23	0.00
		07/28/97	NP	0.00	17.30	18.60	0.00
		10/15/97	NP	0.00	17.73	18.17	0.00
						SPH Recovered to Date:	**0.00**
B-9	33.95	03/24/95	NA	0.00	16.01	17.94	NA
		04/24/95	NA	0.00	16.42	17.53	NA
		05/22/95	NA	0.00	16.54	17.41	NA
		06/19/95	NA	0.00	16.59	17.36	NA
		07/24/95	NA	0.00	17.45	16.50	NA
		08/28/95	NA	0.00	17.85	16.10	NA
		09/25/95	NA	0.00	17.85	16.10	NA
		10/23/95	NA	0.00	17.45	16.50	NA
		11/27/95	NA	0.00	16.51	17.44	NA
		12/29/95	NA	0.00	15.86	18.09	NA
		01/22/96	NA	0.00	15.31	18.64	NA
		01/29/96	NP	0.00	15.31	18.64	0.00
		02/26/96	NA	0.00	13.20	20.75	NA
		03/25/96	NA	0.00	15.49	18.46	NA
		04/22/96	NA	0.00	15.20	18.75	NA
		05/28/96	NA	0.00	15.47	18.48	NA

COPPOR00005367

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-9	33.95	06/24/96	NA	0.00	16.09	17.86	NA
		07/22/96	NA	0.00	16.61	17.34	NA
		08/26/96	NA	0.00	17.25	16.69	NA
		09/23/96	NA	0.00	17.14	16.81	NA
		10/28/96	NA	0.00	17.21	16.74	NA
		11/25/96	NA	0.00	16.35	17.60	NA
		01/29/97	NP	0.00	15.31	18.64	0.00
		04/21/97	NP	0.00	15.82	18.13	0.00
		07/28/97	NP	0.00	16.60	17.35	0.00
		10/15/97	NP	0.00	17.21	16.74	0.00
						SPH Recovered to Date:	**0.00**
B-10	34.74	03/24/95	15.08	0.00	15.08	19.66	NA
		04/24/95	15.41	0.00	15.41	19.33	NA
		05/22/95	15.68	0.00	15.68	19.06	NA
		06/19/95	15.96	0.00	15.96	18.78	NA
		07/24/95	16.26	0.00	16.26	18.48	NA
		08/28/95	16.26	0.32	16.58	18.43	NA
		09/25/95	16.84	0.00	16.84	17.90	NA
		10/23/95	16.70	0.00	16.70	18.04	NA
		11/27/95	15.99	0.00	15.99	18.75	NA
		12/29/95	15.01	0.00	15.01	19.73	NA
		01/22/96	14.67	0.00	14.67	20.07	NA
		02/26/96	12.18	0.00	12.18	22.56	NA
		03/25/96	13.82	0.00	13.82	20.92	NA
		04/22/96	14.66	0.00	14.66	20.08	NA
		05/28/96	14.59	0.00	14.59	20.15	NA
		06/24/96	15.03	0.00	15.03	19.71	NA
		07/22/96	15.64	0.00	15.64	19.10	NA
		08/26/96	16.12	0.00	16.12	18.62	NA
		09/23/96	16.21	0.00	16.21	18.53	NA
		10/28/96	16.18	0.00	16.18	18.56	NA
		11/25/96	15.35	0.00	15.35	19.39	NA
		01/29/97	NP	0.00	13.80	20.94	0.00
		04/21/97	NP	0.00	14.85	19.89	0.00
		07/28/97	NP	0.00	15.43	19.31	0.00
		10/15/97	NP	0.00	16.12	18.62	0.00
						SPH Recovered to Date:	**0.00**
B-11	34.95	03/24/95	NA	0.00	15.22	19.73	NA
		07/24/95	NA	0.00	16.08	18.87	NA
		10/23/95	NA	0.00	16.64	18.31	NA
		01/22/96	NA	0.00	15.73	19.22	NA
		04/22/96	NA	0.00	14.44	20.51	NA
		05/28/96	NA	0.00	14.46	20.49	NA
		07/22/96	NA	0.00	15.40	19.55	NA
		08/26/96	NA	0.00	15.91	19.04	NA
		09/23/96	NA	0.00	16.08	18.87	NA
		10/28/96	NA	0.00	16.14	18.81	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-11	34.95	11/25/96	NA	0.00	15.53	19.42	NA
		01/29/97	NP	0.00	15.65	19.30	0.00
		04/21/97	NP	0.00	14.67	20.28	0.00
		07/28/97	NP	0.00	15.33	19.62	0.00
		10/15/97	NP	0.00	16.05	18.90	0.00
						SPH Recovered to Date:	**0.00**
B-12	35.11	08/26/96	NA	0.00	16.37	18.74	NA
		09/23/96	NA	0.00	16.53	18.58	NA
		11/25/96	NA	0.00	16.07	19.04	NA
		01/29/97	NP	0.00	14.18	20.93	0.00
		04/21/97	NP	0.00	15.20	19.91	0.00
		10/15/97	NP	0.00	16.53	18.58	0.00
						SPH Recovered to Date:	**0.00**
B-13	34.76	08/26/96	NA	0.00	16.36	18.40	NA
		09/23/96	NA	0.00	16.51	18.25	NA
		10/28/96	NA	0.00	16.59	18.17	NA
		11/25/96	NA	0.00	16.14	18.62	NA
		01/29/97	NP	0.00	14.35	20.41	0.00
		04/21/97	NP	0.00	15.23	19.53	0.00
		07/28/97	NP	0.00	15.85	18.91	0.00
		10/15/97	NP	0.00	16.50	18.26	0.00
						SPH Recovered to Date:	**0.00**
B-14	36.59	04/24/95	NA	0.00	17.59	19.00	NA
		07/24/95	NA	0.00	18.35	18.24	NA
		10/23/95	NA	0.00	18.84	17.75	NA
		01/22/96	NA	0.00	17.21	19.38	NA
		04/22/96	NA	0.00	15.80	20.79	NA
		05/28/96	NA	0.00	16.82	19.77	NA
		07/22/96	NA	0.00	17.70	18.89	NA
		08/26/96	NA	0.00	18.15	18.44	NA
		09/23/96	NA	0.00	18.31	18.28	NA
		10/28/96	NA	0.00	18.40	18.19	NA
		11/25/96	NA	0.00	17.94	18.65	NA
		01/29/97	NP	0.00	16.05	20.54	0.00
		04/21/97	NP	0.00	17.03	19.56	0.00
		07/28/97	NP	0.00	17.63	18.96	0.00
		10/15/97	NP	0.00	18.31	18.28	0.00
						SPH Recovered to Date:	**0.00**
B-15	35.55	08/26/96	NA	0.00	17.32	18.23	NA
		09/23/96	NA	0.00	17.47	18.08	NA
		10/28/96	NA	0.00	17.56	17.99	NA
		11/25/96	NA	0.00	17.08	18.47	NA
		01/29/97	NP	0.00	15.26	20.29	0.00
		04/21/97	NP	0.00	16.20	19.35	0.00
		07/28/97	NP	0.00	16.77	18.78	0.00
		10/15/97	NP	0.00	17.44	18.11	0.00

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
						SPH Recovered to Date:	**0.00**
B-19	34.71	03/24/95	NA	0.00	16.01	18.70	NA
		04/24/95	NA	0.00	16.21	18.50	NA
		05/22/95	NA	0.00	16.45	18.26	NA
		06/19/95	NA	0.00	16.70	18.01	NA
		07/24/95	NA	0.00	17.09	17.62	NA
		08/28/95	NA	0.00	17.37	17.34	NA
		09/25/95	NA	0.00	17.56	17.15	NA
		10/23/95	NA	0.00	17.45	17.26	NA
		11/27/95	NA	0.00	16.86	17.85	NA
		12/29/95	NA	0.00	15.75	18.96	NA
		01/22/96	NA	0.00	15.54	19.17	NA
		02/26/96	NA	0.00	12.95	21.76	NA
		03/25/96	NA	0.00	14.80	19.91	NA
		04/22/96	NA	0.00	15.39	19.32	NA
		05/28/96	NA	0.00	15.31	19.40	NA
		06/24/96	NA	0.00	15.79	18.92	NA
		07/22/96	NA	0.00	16.35	18.36	NA
		08/26/96	NA	0.00	16.84	17.87	NA
		09/23/96	NA	0.00	16.97	17.74	NA
		10/28/96	NA	0.00	17.03	17.68	NA
		11/25/96	NA	0.00	16.43	18.28	NA
		01/29/97	NP	0.00	14.81	19.90	0.00
		04/21/97	NP	0.00	15.67	19.04	0.00
		07/28/97	NP	0.00	16.18	18.53	0.00
		10/15/97	NP	0.00	16.90	17.81	0.00
						SPH Recovered to Date:	**0.00**
B-20	33.40	03/24/95	16.55	0.00	16.55	16.85	NA
		04/24/95	16.93	0.00	16.93	16.47	NA
		05/22/95	16.96	0.00	16.96	16.44	NA
		06/19/95	17.20	0.00	17.20	16.20	NA
		07/24/95	17.95	0.19	18.14	15.42	NA
		08/28/95	18.30	0.37	18.67	15.04	NA
		09/25/95	18.26	0.01	18.27	15.14	NA
		10/23/95	18.04	0.00	18.04	15.36	NA
		11/27/95	17.11	0.01	17.12	16.29	NA
		12/29/95	16.17	0.01	16.18	17.23	NA
		01/22/96	15.20	0.00	15.20	18.20	NA
		02/26/96	13.55	0.01	13.56	19.85	NA
		03/25/96	15.99	0.00	15.99	17.41	NA
		04/22/96	15.88	0.00	15.88	17.52	NA
		05/28/96	15.59	0.00	15.59	17.81	NA
		06/24/96	16.29	0.00	16.29	17.11	NA
		07/22/96	17.13	0.00	17.13	16.27	NA
		08/26/96	17.62	0.00	17.62	15.78	NA
		09/23/96	17.59	1.05	18.64	15.65	NA
		10/28/96	17.50	0.43	17.93	15.84	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-20	33.40	11/25/96	16.57	0.05	16.62	16.82	NA
		01/29/97	NP	0.00	15.93	17.47	0.00
		04/21/97	NP	0.00	16.19	17.21	0.00
		07/28/97	16.89	0.02	16.91	16.51	1.00
		10/15/97	17.32	0.07	17.39	16.07	0.80
						SPH Recovered to Date:	1.80
B-21	34.79	03/24/95	NA	0.00	16.23	18.56	NA
		04/24/95	NA	0.00	16.42	18.37	NA
		05/22/95	NA	0.00	16.63	18.16	NA
		06/19/95	NA	0.00	16.83	17.96	NA
		07/24/95	NA	0.00	17.18	17.61	NA
		08/28/95	NA	0.00	17.43	17.36	NA
		09/25/95	NA	0.00	17.58	17.21	NA
		10/23/95	NA	0.00	17.53	17.26	NA
		11/27/95	NA	0.00	17.09	17.70	NA
		12/29/95	NA	0.00	16.07	18.72	NA
		01/22/96	NA	0.00	15.91	18.88	NA
		02/26/96	NA	0.00	13.30	21.49	NA
		03/25/96	NA	0.00	15.08	19.71	NA
		04/22/96	NA	0.00	15.77	19.02	NA
		05/28/96	NA	0.00	15.61	19.18	NA
		06/24/96	NA	0.00	16.01	18.78	NA
		07/22/96	NA	0.00	16.53	18.26	NA
		08/26/96	NA	0.00	16.95	17.84	NA
		09/23/96	NA	0.00	17.11	17.68	NA
		10/28/96	NA	0.00	17.20	17.59	NA
		11/25/96	NA	0.00	16.71	18.08	NA
		01/29/97	NP	0.00	15.23	19.56	0.00
		04/21/97	NP	0.00	15.99	18.80	0.00
		07/28/97	NP	0.00	16.45	18.34	0.00
		10/15/97	NP	0.00	17.10	17.69	0.00
						SPH Recovered to Date:	0.00
B-24	34.70	03/24/95	15.87	0.01	15.88	18.83	NA
		04/24/95	15.96	0.03	15.99	18.74	NA
		05/22/95	16.17	0.01	16.18	18.53	NA
		06/19/95	16.39	0.02	16.41	18.31	NA
		07/24/95	16.56	0.04	16.60	18.13	0.01
		08/28/95	16.81	0.00	16.81	17.89	NA
		09/25/95	17.02	0.00	17.02	17.68	0.03
		10/23/95	17.05	0.00	17.05	17.65	NA
		11/27/95	16.75	0.00	16.75	17.95	NA
		12/29/95	15.90	0.00	15.90	18.80	NA
		01/22/96	15.71	0.00	15.71	18.99	NA
		02/26/96	13.98	0.00	13.98	20.72	NA
		03/25/96	14.62	0.00	14.62	20.08	NA
		04/22/96	15.28	0.00	15.28	19.42	NA
		05/28/96	15.25	0.00	15.25	19.45	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-24	34.70	06/24/96	15.57	0.00	15.57	19.13	NA
		07/22/96	15.95	0.00	15.95	18.75	NA
		08/26/96	16.35	0.00	16.35	18.35	NA
		09/23/96	16.51	0.01	16.52	18.19	NA
		10/28/96	16.54	0.00	16.54	18.16	NA
		01/29/97	NM	0.00	NM	0.00	0.00
		04/21/97	NP	0.00	15.29	19.41	0.00
		07/28/97	NP	0.00	16.00	18.70	0.00
		10/15/97	NP	0.00	16.66	18.04	0.00
						SPH Recovered to Date:	**0.04**
B-26	37.04	03/12/95	NP	0.00	16.56	20.48	0.00
	35.30	04/24/95	NA	0.00	15.81	19.49	NA
		07/24/95	NA	0.00	16.69	18.61	NA
		10/23/95	NA	0.00	17.16	18.14	NA
		01/22/96	NA	0.00	15.23	20.07	NA
		04/22/96	NA	0.00	14.85	20.45	NA
		05/28/96	NA	0.00	14.95	20.35	NA
		07/22/96	NA	0.00	16.03	19.27	NA
		08/26/96	16.52	0.00	16.52	18.78	NA
		09/23/96	16.63	0.00	16.63	18.67	NA
		10/28/96	16.68	0.00	16.68	18.62	NA
		11/25/96	15.94	0.00	15.94	19.36	NA
		01/29/97	NP	0.00	14.36	20.94	NA
		04/21/97	15.28	0.01	15.29	20.02	0.40
		07/24/97	NP	0.00	15.80	19.50	0.00
		10/15/97	NP	0.00	16.58	18.72	0.00
						SPH Recovered to Date:	**0.40**
B-28	35.25	04/24/95	NA	0.00	15.02	20.23	NA
		07/24/95	NA	0.00	16.14	19.11	NA
		10/23/95	NA	0.00	16.40	18.85	NA
		01/22/96	NA	0.00	15.25	20.00	NA
		04/22/96	NA	0.00	14.62	20.63	NA
		05/28/96	NA	0.00	14.68	20.57	NA
		07/22/96	NA	0.00	15.51	19.74	NA
		10/28/96	NA	0.00	15.98	19.27	NA
		01/29/97	NP	0.00	14.36	20.89	NA
		04/21/97	14.99	0.01	15.00	20.26	0.30
		07/24/97	NP	0.00	15.25	20.00	0.00
		10/15/97	NP	0.00	16.11	19.14	0.00
						SPH Recovered to Date:	**0.30**
B-29	37.70	01/29/97	NL	0.00	NL	0.00	0.00
		04/21/97	NP	0.00	14.61	23.09	0.00
		07/28/97	NP	0.00	15.40	22.30	0.00
		10/15/97	NP	0.00	16.10	21.60	0.00
						SPH Recovered to Date:	**0.00**
B-30	35.35	04/24/95	NA	0.00	15.60	19.75	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-30	35.35	06/19/95	NP	0.00	15.60	19.75	0.00
		07/24/95	NA	0.00	15.96	19.39	NA
		10/23/95	NA	0.00	16.51	18.84	NA
		01/22/96	NA	0.00	14.51	20.84	NA
		04/22/96	NA	0.00	14.12	21.23	NA
		05/28/96	NA	0.00	14.68	20.67	NA
		07/22/96	NA	0.00	15.22	20.13	NA
		10/28/96	NA	0.00	15.94	19.41	NA
		01/29/97	NP	0.00	13.48	21.87	0.00
		04/21/97	NP	0.00	14.50	20.85	0.00
		07/28/97	NP	0.00	15.07	20.28	0.00
		10/15/97	NP	0.00	15.96	19.39	0.00
						SPH Recovered to Date:	**0.00**
B-31	33.86	03/24/95	NA	0.00	14.49	19.37	NA
		04/24/95	NA	0.00	15.30	18.56	NA
		05/22/95	NA	0.00	15.98	17.88	NA
		06/19/95	NA	0.00	16.74	17.12	NA
		07/24/95	NA	0.00	16.89	16.97	NA
		08/28/95	NA	0.00	17.15	16.71	NA
		09/25/95	NA	0.00	16.97	16.89	NA
		10/23/95	16.52	0.08	16.44	17.49	NA
		11/27/95	16.63	3.21	13.42	23.17	NA
		12/29/95	14.36	0.00	14.36	19.50	NA
		01/22/96	NA	0.00	15.73	18.13	NA
		02/26/96	NA	0.00	12.56	21.30	NA
		03/25/96	NA	0.00	16.06	17.80	NA
		04/22/96	NA	0.00	12.56	21.30	NA
		05/28/96	NA	0.00	14.61	19.25	NA
		06/24/96	NA	0.00	14.04	19.82	NA
		07/22/96	NA	0.00	15.84	18.02	NA
		08/26/96	NA	0.00	16.71	17.15	NA
		09/23/96	16.52	0.05	16.47	17.43	NA
		10/28/96	NA	0.00	15.90	17.96	NA
		11/25/96	NA	0.00	14.47	19.39	NA
		01/29/97	NP	0.00	14.75	19.11	0.00
		04/21/97	14.35	0.02	14.37	19.51	0.20
		07/24/97	NP	0.00	15.89	17.97	0.00
		10/15/97	NP	0.00	16.30	17.56	0.00
						SPH Recovered to Date:	**0.20**
B-32	34.23	03/24/95	16.03	0.00	16.03	18.20	NA
		04/24/95	16.31	0.26	16.57	17.88	NA
		05/22/95	16.76	0.00	16.76	17.47	NA
		06/19/95	17.10	0.00	17.10	17.13	NA
		07/24/95	17.59	0.00	17.59	16.64	NA
		08/28/95	17.94	0.00	17.94	16.29	NA
		09/25/95	18.11	0.00	18.11	16.12	NA
		10/23/95	17.98	0.00	17.98	16.25	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-32	34.23	11/27/95	17.25	0.00	17.25	16.98	NA
		12/29/95	16.09	0.00	16.09	18.14	NA
		01/22/96	NA	0.00	15.73	18.50	NA
		02/26/96	NA	0.00	12.72	21.51	NA
		03/25/96	NA	0.00	15.45	18.78	NA
		04/22/96	NA	0.00	15.75	18.48	NA
		05/28/96	NA	0.00	15.37	18.86	NA
		06/24/96	NA	0.00	16.01	18.22	NA
		07/22/96	NA	0.00	16.86	17.37	NA
		08/26/96	NA	0.00	17.37	16.86	NA
		09/23/96	NA	0.00	17.61	16.62	NA
		10/28/96	NA	0.00	17.57	16.66	NA
		11/25/96	NA	0.00	16.61	17.62	NA
		01/29/97	NP	0.00	15.46	18.77	NA
		04/21/97	NP	0.00	15.89	18.34	NA
		07/28/97	NP	0.00	16.66	17.57	0.00
		10/15/97	NP	0.00	17.37	16.86	0.00
						SPH Recovered to Date:	**0.00**
B-33	35.90	01/29/97	NP	0.00	14.86	21.04	0.00
		04/21/97	NP	0.00	15.70	20.20	0.00
		07/28/97	NP	0.00	16.24	19.66	0.00
		10/15/97	NP	0.00	16.93	18.97	0.00
						SPH Recovered to Date:	**0.00**
CR-1	22.08	01/29/96	NP	0.00	1.63	20.45	0.00
		01/29/97	NP	0.00	1.63	20.45	0.00
		04/21/97	NP	0.00	2.32	19.76	0.00
		10/15/97	NP	0.00	3.55	18.53	0.00
						SPH Recovered to Date:	**0.00**
CR-3	34.32	04/24/95	NA	0.00	14.09	20.23	NA
		07/24/95	NA	0.00	15.25	19.07	NA
		10/23/95	NA	0.00	15.81	18.51	NA
		01/22/96	NA	0.00	10.42	23.90	NA
		01/29/96	NP	0.00	12.52	21.80	0.00
		04/22/96	NA	0.00	12.68	21.64	NA
		05/28/96	NA	0.00	13.61	20.71	NA
		07/22/96	NA	0.00	14.62	19.70	NA
		08/26/96	NA	0.00	15.13	19.19	NA
		09/23/96	NA	0.00	15.28	19.04	NA
		10/28/96	NA	0.00	14.79	19.53	NA
		11/25/96	NA	0.00	12.45	21.87	NA
		01/29/97	NP	0.00	12.52	21.80	0.00
		04/21/97	13.39	0.01	13.40	20.93	0.00
		07/28/97	NP	0.00	14.51	19.81	0.00
		10/15/97	NP	0.00	15.20	19.12	0.00
						SPH Recovered to Date:	**0.00**
CR-4	34.93	04/24/95	NA	0.00	5.13	29.80	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-4	34.93	07/24/95	NA	0.00	6.90	28.03	NA
		01/22/96	NA	0.00	4.70	30.23	NA
		05/28/96	NA	0.00	4.99	29.94	NA
		07/22/96	NA	0.00	6.48	28.45	NA
		10/28/96	NA	0.00	6.35	28.58	NA
	37.14	01/29/97	NP	0.00	4.99	32.15	0.00
	34.93	04/21/97	NP	0.00	5.09	29.84	0.00
	37.14	05/03/97	NP	0.00	6.78	30.36	0.00
		07/28/97	NP	0.00	6.31	30.83	0.00
		10/15/97	NP	0.00	5.95	31.19	0.00
						SPH Recovered to Date:	**0.00**
CR-6	35.61	03/24/95	12.07	0.01	12.08	23.54	NA
		04/24/95	12.03	0.01	12.04	23.58	NA
		05/22/95	12.51	0.01	12.52	23.10	NA
		06/19/95	10.16	0.00	10.16	25.45	NA
		07/24/95	14.86	0.01	14.87	20.75	0.02
		08/28/95	14.51	0.01	14.52	21.10	0.02
		09/25/95	15.46	0.01	15.47	20.15	0.05
		10/23/95	15.50	0.00	15.50	20.11	NA
		12/29/95	8.81	0.00	8.81	26.80	NA
		01/22/96	12.02	0.01	12.03	23.59	0.04
		02/26/96	10.71	0.00	10.71	24.90	NA
		03/25/96	11.28	0.00	11.28	24.33	NA
		05/28/96	11.49	0.00	11.49	24.12	NA
		06/24/96	11.35	0.00	11.35	24.26	NA
		07/22/96	12.57	0.01	12.58	23.04	0.01
		08/26/96	13.03	0.02	13.05	22.58	0.02
		09/23/96	13.05	0.03	13.08	22.56	NA
		10/28/96	12.85	0.04	12.89	22.75	NA
		11/25/96	12.55	0.02	12.57	23.06	NA
		01/29/97	NP	0.00	11.15	24.46	0.00
		04/21/97	NP	0.00	11.86	23.75	0.00
		07/28/97	12.74	0.01	12.75	22.87	1.00
		10/15/97	12.98	0.03	13.01	22.63	1.00
						SPH Recovered to Date:	**2.17**
CR-7	35.57	03/24/95	10.01	0.48	10.49	25.49	NA
		04/24/95	10.19	0.57	10.76	25.29	NA
		05/22/95	10.76	0.75	11.51	24.70	NA
		06/19/95	11.25	0.15	11.40	24.30	NA
		07/24/95	11.80	0.01	11.81	23.77	0.13
		08/28/95	12.20	0.00	12.20	23.37	0.03
		09/25/95	12.48	0.00	12.48	23.09	0.03
		10/23/95	11.98	0.00	11.98	23.59	NA
		11/27/95	10.73	0.00	10.73	24.84	NA
		12/29/95	10.23	0.05	10.28	25.33	NA
		01/22/96	9.91	0.21	10.12	25.63	0.12
		02/26/96	8.50	0.50	9.00	27.00	0.15

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-7	35.57	03/25/96	9.81	0.02	9.83	25.76	0.01
		04/22/96	10.21	0.12	10.33	25.34	NA
		05/28/96	9.82	0.31	10.13	25.70	0.38
		06/24/96	10.78	0.20	10.98	24.76	0.69
		07/22/96	11.35	0.22	11.57	24.19	0.45
		08/26/96	11.84	0.12	11.96	23.71	0.13
		09/23/96	11.94	0.03	11.97	23.63	NA
		10/28/96	11.51	0.02	11.53	24.06	NA
		11/25/96	10.80	0.00	10.80	24.77	NA
		01/29/97	NP	0.00	11.11	24.46	0.00
		04/21/97	10.60	0.11	10.71	24.95	9.60
		07/24/97	11.52	0.10	11.62	24.03	2.75
		10/15/97	NP	0.00	11.57	24.00	0.25
						SPH Recovered to Date:	**14.72**
CR-8	33.14	04/24/95	NA	0.00	6.41	26.73	NA
		07/24/95	NA	0.00	8.22	24.92	NA
		10/23/95	NA	0.00	8.08	25.06	NA
		01/22/96	NA	0.00	6.21	26.93	NA
		04/22/96	NA	0.00	6.47	26.67	NA
		05/28/96	NA	0.00	6.31	26.83	NA
		07/22/96	NA	0.00	7.08	26.06	NA
		10/28/96	NA	0.00	7.71	25.43	NA
		01/29/97	NP	0.00	5.94	27.20	0.00
		04/21/97	NP	0.00	6.41	26.73	0.00
		07/28/97	NP	0.00	7.30	25.84	0.00
		10/15/97	NP	0.00	7.36	25.78	0.00
						SPH Recovered to Date:	**0.00**
CR-9	35.72	01/29/97	NP	0.00	4.56	31.16	0.00
		04/21/97	3.38	0.01	3.39	32.34	0.20
		07/24/97	NP	0.00	5.71	30.01	0.00
		10/15/97	NP	0.00	4.13	31.59	0.00
						SPH Recovered to Date:	**0.20**
CR-10	35.57	03/24/95	5.34	0.03	5.37	30.23	NA
		04/24/95	4.27	0.08	4.35	31.29	NA
		05/22/95	5.31	0.09	5.40	30.25	NA
		06/19/95	6.30	0.08	6.38	29.26	NA
		07/24/95	9.22	0.00	9.22	26.35	NA
		08/28/95	10.15	0.00	10.15	25.42	0.40
		09/25/95	10.82	0.00	10.82	24.75	NA
		10/23/95	9.44	0.00	9.44	26.13	NA
		12/29/95	7.54	0.00	7.54	28.03	NA
		01/22/96	6.96	0.05	7.01	28.60	NA
		02/26/96	6.76	0.17	6.93	28.78	0.13
		03/25/96	7.62	0.00	7.62	27.95	5.16
		04/22/96	7.69	0.00	7.69	27.88	NA
		07/22/96	1.28	0.05	1.23	34.38	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-10	35.57	11/25/96	2.35	0.00	2.35	33.22	NA
		01/29/97	NP	0.00	3.76	31.81	0.00
		04/21/97	4.26	0.16	4.42	31.29	6.40
		07/24/97	5.94	0.38	6.32	29.57	6.00
		10/15/97	5.70	0.32	6.02	29.82	3.00
						SPH Recovered to Date:	**21.09**
CR-11	34.43	03/24/95	1.19	0.00	1.19	33.24	NA
		04/24/95	1.34	0.00	1.34	33.09	NA
		05/22/95	2.49	0.00	2.49	31.94	NA
		06/19/95	2.94	0.00	2.94	31.49	NA
		07/24/95	3.68	0.00	3.68	30.75	NA
		08/28/95	4.18	0.00	4.18	30.25	NA
		09/25/95	4.83	0.00	4.83	29.60	NA
		10/23/95	4.59	0.00	4.59	29.84	NA
		11/27/95	3.61	0.00	3.61	30.82	NA
		12/29/95	1.83	0.00	1.83	32.60	NA
		01/22/96	1.78	0.00	1.78	32.65	NA
		02/26/96	1.13	0.00	1.13	33.30	NA
		03/25/96	1.27	0.00	1.27	33.16	NA
		04/22/96	1.40	0.00	1.40	33.03	NA
		05/28/96	1.45	0.00	1.45	32.98	NA
		06/24/96	2.39	0.00	2.39	32.04	NA
		07/22/96	3.35	0.00	3.35	31.08	NA
		08/26/96	4.10	0.00	4.10	30.33	NA
		09/23/96	4.35	0.00	4.35	30.08	NA
		10/28/96	3.12	0.02	3.14	31.31	NA
		11/25/96	2.35	0.00	2.35	32.08	0.00
		01/29/97	NP	0.00	1.55	32.88	0.00
		04/21/97	NP	0.00	1.34	33.09	0.00
		07/24/97	NP	0.00	3.03	31.40	0.00
		10/15/97	NP	0.00	3.68	30.75	0.00
						SPH Recovered to Date:	**0.00**
						Chevron total SPH Recovered to Date:	**41.92**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX				
MW-1	35.43	04/24/95	NA	0.00	3.55	31.88	NA
		07/24/95	NA	0.00	6.26	29.17	NA
		10/23/95	NA	0.00	5.85	29.58	NA
		01/22/96	NA	0.00	2.92	32.51	NA
		04/22/96	NA	0.00	4.01	31.42	NA
		07/22/96	NA	0.00	6.92	28.51	NA
		10/28/96	NA	0.00	5.35	30.08	NA
		01/30/97	NP	0.00	3.92	31.51	0.00
		04/21/97	NP	0.00	3.63	31.80	0.00
		07/30/97	NP	0.00	6.69	28.74	0.00
		10/14/97	NP	0.00	5.18	30.25	0.00
						SPH Recovered to Date:	**0.00**
MW-2	35.77	01/30/97	NP	0.00	4.88	30.89	0.00
		04/21/97	NP	0.00	5.41	30.36	0.00
		07/30/97	NP	0.00	7.27	28.50	0.00
		10/14/97	NP	0.00	7.57	28.20	0.00
						SPH Recovered to Date:	**0.00**
MW-3	36.02	03/06/95	NA	0.00	6.79	29.23	NA
		03/27/95	NA	0.00	6.65	29.37	NA
		04/24/95	NA	0.00	6.98	29.04	NA
		07/24/95	NA	0.00	8.63	27.39	NA
		10/23/95	NA	0.00	9.62	26.40	NA
		01/22/96	8.96	0.00	8.96	27.06	NA
		04/22/96	NA	0.00	6.34	29.68	NA
		07/22/96	NA	0.00	8.47	27.55	NA
		10/28/96	NA	0.00	8.70	27.32	NA
		01/30/97	NP	0.00	6.40	29.62	0.00
		04/21/97	NP	0.00	6.93	29.09	0.00
		07/30/97	NP	0.00	8.54	27.48	0.00
		10/14/97	NP	0.00	8.79	27.23	0.00
						SPH Recovered to Date:	**0.00**
MW-4	36.39	04/24/95	NA	0.00	6.35	30.04	NA
		07/24/95	NA	0.00	8.17	28.22	NA
		10/23/95	NA	0.00	9.16	27.23	NA
		01/22/96	NA	0.00	5.20	31.19	NA
		04/22/96	NA	0.00	5.59	30.80	NA
		07/22/96	NA	0.00	7.97	28.42	NA
		10/28/96	NA	0.00	8.14	28.25	NA
		11/25/96	NA	0.00	6.10	30.29	NA
		01/30/97	NP	0.00	5.40	30.99	0.00
		04/21/97	NP	0.00	6.29	30.10	0.00
		07/30/97	NP	0.00	8.07	28.32	0.00
		10/14/97	NP	0.00	8.35	28.04	0.00
						SPH Recovered to Date:	**0.00**
MW-5	33.52	03/27/95	NP	0.00	3.55	29.97	0.00
		04/24/95	NA	0.00	5.29	28.23	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-5	33.52	07/24/95	NA	0.00	7.12	26.40	NA
		10/23/95	NA	0.00	8.56	24.96	NA
		01/22/96	NA	0.00	4.32	29.20	NA
		04/22/96	NA	0.00	4.73	28.79	NA
		07/22/96	NA	0.00	6.98	26.54	NA
		10/28/96	NA	0.00	7.60	25.92	NA
		12/23/96	NA	0.00	2.35	31.17	NA
		01/30/97	NP	0.00	5.01	28.51	0.00
		04/21/97	NP	0.00	5.07	28.45	0.00
		07/30/97	NP	0.00	7.05	26.47	0.00
		10/14/97	NP	0.00	7.24	26.28	0.00
						SPH Recovered to Date:	0.00
MW-6	33.34	03/06/95	3.34	0.20	3.54	29.97	NA
		03/27/95	3.05	0.68	3.73	30.19	NA
		04/24/95	3.29	0.89	4.18	29.92	NA
		05/22/95	3.80	0.03	3.83	29.54	1.50
		06/19/95	4.64	0.00	4.64	28.70	1.34
		07/24/95	5.15	0.00	5.15	28.19	NA
		08/28/95	5.90	0.00	5.90	27.44	NA
		09/25/95	6.50	0.00	6.50	26.84	NA
		10/23/95	6.22	0.00	6.22	27.12	NA
		11/27/95	4.37	0.00	4.37	28.97	NA
		12/29/95	3.76	0.19	3.95	29.55	NA
		01/22/96	2.50	0.35	2.85	30.79	NA
		02/26/96	2.07	0.01	2.08	31.27	NA
		03/25/96	3.34	0.00	3.34	30.00	0.18
		04/22/96	3.18	0.00	3.18	30.16	NA
		05/28/96	3.23	0.00	3.23	30.11	0.06
		06/24/96	4.35	0.00	4.35	28.99	NA
		07/22/96	5.08	0.00	5.08	28.26	NA
		08/26/96	5.89	0.00	5.89	27.45	NA
		09/23/96	5.54	0.00	5.54	27.80	NA
		10/28/96	5.19	0.00	5.19	28.15	NA
		11/25/96	3.28	0.00	3.28	30.06	NA
		12/23/96	2.98	0.43	3.41	30.30	NA
		01/30/97	NP	0.00	2.77	30.57	0.00
		04/21/97	NP	0.00	3.25	30.09	0.00
		07/30/97	5.10	0.13	5.23	28.22	0.25
		10/14/97	NP	0.00	5.40	27.94	0.00
						SPH Recovered to Date:	3.33
MW-7	34.12	03/06/95	7.96	0.04	8.00	26.15	NA
		03/27/95	7.88	0.06	7.94	26.23	NA
		04/24/95	8.18	0.00	8.18	25.94	NA
		05/22/95	8.51	0.34	8.85	25.56	NA
		06/19/95	8.93	0.39	9.32	25.13	NA
		07/24/95	9.35	0.15	9.50	24.75	0.06
		08/28/95	9.79	0.21	10.00	24.30	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-7	34.12	09/25/95	10.13	0.38	10.51	23.93	NA
		10/23/95	7.04	0.43	7.47	27.02	NA
		11/27/95	9.00	0.00	9.00	25.12	NA
		12/29/95	8.13	0.03	8.16	25.99	0.37
		01/22/96	7.44	0.00	7.44	26.68	0.08
		02/26/96	6.20	0.00	6.20	27.92	NA
		03/25/96	7.50	0.20	7.70	26.59	NA
		04/22/96	7.84	0.11	7.95	26.26	0.12
		05/28/96	7.70	0.10	7.80	26.41	0.12
		06/24/96	8.36	0.12	8.48	25.74	0.37
		07/22/96	8.98	0.30	9.28	25.09	NA
		08/26/96	9.52	0.30	9.82	24.56	NA
		09/23/96	9.55	0.38	9.93	24.51	NA
		10/28/96	9.30	0.48	9.78	24.75	NA
		11/25/96	8.23	0.68	8.91	25.79	NA
		12/23/96	7.52	1.98	9.50	26.30	NA
		01/30/97	7.13	3.11	10.24	26.52	70.00
		04/21/97	7.91	1.81	9.72	25.94	57.00
		07/24/97	8.91	1.05	9.96	25.05	22.00
		10/14/97	9.58	0.30	9.88	24.50	6.00
						SPH Recovered to Date:	156.12
MW-8	33.95	04/24/95	NA	0.00	7.27	26.68	NA
		07/24/95	NA	0.00	8.53	25.42	NA
		10/23/95	NA	0.00	9.45	24.50	NA
		01/22/96	NA	0.00	6.45	27.50	NA
		04/22/96	NA	0.00	6.99	26.96	NA
		07/22/96	NA	0.00	8.30	25.65	NA
		10/28/96	NA	0.00	8.76	25.19	NA
		01/30/97	NP	0.00	6.38	27.57	0.00
		04/21/97	NP	0.00	7.07	26.88	0.00
		07/30/97	NP	0.00	8.29	25.66	0.00
		10/14/97	NP	0.00	9.82	24.13	0.00
						SPH Recovered to Date:	**0.00**
MW-9	36.53	04/24/95	NA	0.00	9.67	26.86	NA
		07/24/95	NA	0.00	10.85	25.68	NA
		10/23/95	NA	0.00	11.86	24.67	NA
		01/22/96	NA	0.00	9.57	26.96	NA
		04/22/96	NA	0.00	9.47	27.06	NA
		07/22/96	NA	0.00	10.34	26.19	NA
		10/28/96	NA	0.00	11.32	25.21	NA
		01/30/97	NP	0.00	894.00	0.00	0.00
		04/21/97	9.51	0.01	9.52	27.02	0.10
		07/24/97	NP	0.00	10.28	26.25	0.00
		10/14/97	NP	0.00	11.23	25.30	0.00
						SPH Recovered to Date:	**0.10**
MW-10	35.82	04/24/95	NA	0.00	8.54	27.28	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-10	35.82	07/24/95	NA	0.00	10.25	25.57	NA
		10/23/95	NA	0.00	11.20	24.62	NA
		01/22/96	NA	0.00	7.31	28.51	NA
		04/22/96	NA	0.00	8.09	27.73	NA
		07/22/96	NA	0.00	9.87	25.95	NA
		10/28/96	NA	0.00	10.22	25.60	NA
		01/30/97	NP	0.00	7.40	28.42	0.00
		04/21/97	NP	0.00	8.40	27.42	0.00
		07/30/97	NP	0.00	9.98	25.84	0.00
		10/14/97	NP	0.00	10.38	25.44	0.00
						SPH Recovered to Date:	**0.00**
MW-11	36.47	03/06/95	NA	0.00	5.09	31.38	NA
		03/27/95	5.25	0.00	5.25	31.22	NA
		04/24/95	5.36	0.00	5.36	31.11	NA
		05/22/95	6.11	0.00	6.11	30.36	NA
		06/19/95	6.52	0.00	6.52	29.95	NA
		07/24/95	7.10	0.00	7.10	29.37	NA
		08/28/95	8.00	0.00	8.00	28.47	NA
		09/25/95	8.12	0.00	8.12	28.35	NA
		10/23/95	7.39	0.00	7.39	29.08	NA
		11/27/95	5.25	0.00	5.25	31.22	NA
		12/29/95	5.65	0.00	5.65	30.82	NA
		01/22/96	4.50	0.00	4.50	31.97	NA
		01/30/96	NP	0.00	5.20	31.27	0.00
		02/26/96	3.69	0.00	3.69	32.78	NA
		03/25/96	5.50	0.00	5.50	30.97	NA
		04/22/96	5.15	0.00	5.15	31.32	NA
		05/28/96	5.29	0.00	5.29	31.18	NA
		06/24/96	6.27	0.00	6.27	30.20	NA
		07/22/96	7.04	0.00	7.04	29.43	NA
		08/26/96	7.86	0.00	7.86	28.61	NA
		09/23/96	7.20	0.00	7.20	29.27	NA
		10/28/96	6.33	0.00	6.33	30.14	NA
		11/25/96	4.94	0.00	4.94	31.53	NA
		12/23/96	NA	0.00	4.68	31.79	NA
		01/30/97	NP	0.00	5.20	31.27	0.00
		04/21/97	NP	0.00	5.41	31.06	0.00
		07/30/97	NP	0.00	7.05	29.42	0.00
		10/14/97	6.62	0.01	6.63	29.85	0.50
						SPH Recovered to Date:	**0.50**
MW-12	35.95	04/24/95	NA	0.00	5.22	30.73	NA
		07/24/95	NA	0.00	7.30	28.65	NA
		10/23/95	NA	0.00	8.33	27.62	NA
		01/22/96	NA	0.00	3.83	32.12	NA
		04/22/96	NA	0.00	4.34	31.61	NA
		07/22/96	NA	0.00	7.15	28.80	NA
		10/28/96	NA	0.00	7.37	28.58	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-12	35.95	01/30/97	NP	0.00	4.26	31.69	0.00
		04/21/97	NP	0.00	5.05	30.90	0.00
		07/30/97	NP	0.00	7.27	28.68	0.00
		10/14/97	NP	0.00	7.46	28.49	0.00
						SPH Recovered to Date:	**0.00**
MW-13	37.89	04/24/95	NA	0.00	4.41	33.48	NA
		07/24/95	NA	0.00	6.29	31.60	NA
		10/23/95	NA	0.00	6.67	31.22	NA
		01/22/96	NA	0.00	3.65	34.24	NA
		04/22/96	NA	0.00	4.18	33.71	NA
		07/22/96	NA	0.00	6.28	31.61	NA
		10/28/96	NA	0.00	5.61	32.28	NA
		01/30/97	NP	0.00	4.22	33.67	0.00
		04/21/97	NP	0.00	4.28	33.61	0.00
		07/30/97	NP	0.00	6.27	31.62	0.00
		10/14/97	NP	0.00	5.64	32.25	0.00
						SPH Recovered to Date:	**0.00**
MW-14	36.28	04/24/95	NA	0.00	3.33	32.95	NA
		07/24/95	NA	0.00	5.62	30.66	NA
		10/23/95	NA	0.00	5.96	30.32	NA
		01/22/96	NA	0.00	2.71	33.57	NA
		04/22/96	NA	0.00	3.25	33.03	NA
		07/22/96	NA	0.00	5.68	30.60	NA
		10/28/96	NA	0.00	5.30	30.98	NA
		01/30/97	NP	0.00	3.28	33.00	0.00
		04/21/97	NP	0.00	3.29	32.99	0.00
		07/30/97	NP	0.00	5.64	30.64	0.00
		10/14/97	NP	0.00	5.13	31.15	0.00
						SPH Recovered to Date:	**0.00**
MW-15	37.50	01/30/97	NP	0.00	3.28	34.22	0.00
		04/21/97	NP	0.00	4.85	32.65	0.00
		07/30/97	NP	0.00	7.92	29.58	0.00
		10/14/97	NP	0.00	5.91	31.59	0.00
						SPH Recovered to Date:	**0.00**
MW-16	34.93	07/24/95	NA	0.00	5.78	29.15	NA
		10/23/95	NA	0.00	6.73	28.20	NA
		01/22/96	NA	0.00	2.44	32.49	NA
		04/22/96	NA	0.00	3.46	31.47	NA
		07/22/96	NA	0.00	5.63	29.30	NA
		10/28/96	NA	0.00	5.90	29.03	NA
		01/30/97	NP	0.00	3.15	31.78	0.00
		04/21/97	NP	0.00	3.44	31.49	0.00
		07/30/97	NP	0.00	5.65	29.28	0.00
		10/14/97	NP	0.00	5.80	29.13	0.00
						SPH Recovered to Date:	**0.00**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-17	36.05	01/30/97	NP	0.00	4.27	31.78	0.00
		04/21/97	NP	0.00	4.39	31.66	0.00
		07/30/97	NP	0.00	5.28	30.77	0.00
		10/14/97	NP	0.00	5.21	30.84	0.00
						SPH Recovered to Date:	**0.00**
MW-18	33.76	04/24/95	NA	0.00	1.66	32.10	NA
		07/24/95	NA	0.00	3.02	30.74	NA
		10/23/95	NA	0.00	3.43	30.33	NA
		01/22/96	NA	0.00	1.08	32.68	NA
		04/22/96	NA	0.00	0.89	32.87	NA
		07/22/96	NA	0.00	2.83	30.93	NA
		10/28/96	NA	0.00	2.48	31.28	NA
		01/30/97	NP	0.00	1.24	32.52	0.00
		04/21/97	NP	0.00	1.23	32.53	0.00
		07/30/97	NP	0.00	2.66	31.10	0.00
		10/14/97	NP	0.00	2.45	31.31	0.00
						SPH Recovered to Date:	**0.00**
MW-19	33.39	03/06/95	2.77	0.49	3.26	30.55	NA
		03/27/95	2.57	0.51	3.08	30.74	NA
		04/24/95	2.79	0.54	3.33	30.52	NA
		05/22/95	3.19	0.51	3.70	30.12	NA
		06/19/95	3.87	0.61	4.48	29.43	NA
		07/24/95	4.41	0.01	4.42	28.98	0.31
		08/28/95	5.64	0.00	5.64	27.75	0.03
		09/25/95	6.80	0.00	6.80	26.59	NA
		10/23/95	5.48	0.00	5.48	27.91	NA
		11/27/95	3.79	0.00	3.79	29.60	NA
		12/29/95	3.23	0.00	3.23	30.16	NA
		01/22/96	2.18	0.00	2.18	31.21	NA
		02/26/96	1.57	0.00	1.57	31.82	NA
		03/25/96	2.56	0.00	2.56	30.83	NA
		04/22/96	1.77	0.00	1.77	31.62	NA
		05/28/96	2.11	0.00	2.11	31.28	NA
		06/24/96	2.93	0.00	2.93	30.46	NA
		07/22/96	3.61	0.00	3.61	29.78	NA
		08/26/96	4.31	0.00	4.31	29.08	NA
		09/23/96	3.65	0.00	3.65	29.74	NA
		10/28/96	1.95	0.00	1.95	31.44	NA
		11/25/96	1.63	0.00	1.63	31.76	NA
		12/23/96	1.86	0.00	1.86	31.53	NA
		01/30/97	NP	0.00	1.86	31.53	0.00
		04/21/97	NP	0.00	2.23	31.16	0.00
		07/30/97	NP	0.00	3.79	29.60	0.00
		10/14/97	NP	0.00	3.63	29.76	0.00
						SPH Recovered to Date:	**0.34**
MW-20	34.76	04/24/95	NA	0.00	9.55	25.21	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-20	34.76	07/24/95	NA	0.00	10.73	24.03	NA
		10/23/95	NA	0.00	11.35	23.41	NA
		01/22/96	NA	0.00	8.50	26.26	NA
		04/22/96	NA	0.00	9.53	25.23	NA
		07/22/96	NA	0.00	10.41	24.35	NA
		09/23/96	11.08	0.00	11.08	23.68	NA
		10/28/96	NA	0.00	10.74	24.02	NA
		11/25/96	NA	0.00	9.19	25.57	NA
		12/23/96	NA	0.00	9.05	25.71	NA
		01/30/97	NP	0.00	8.03	26.73	0.00
		04/21/97	NP	0.00	9.35	25.41	0.00
		07/30/97	NP	0.00	10.45	24.31	0.00
		10/14/97	NP	0.00	10.58	24.18	0.00
						SPH Recovered to Date:	**0.00**
MW-21	34.33	04/24/95	NA	0.00	1.48	32.85	NA
		07/24/95	NA	0.00	2.21	32.12	NA
		10/23/95	NA	0.00	2.04	32.29	NA
		01/22/96	NA	0.00	1.08	33.25	NA
		04/22/96	NA	0.00	0.78	33.55	NA
		07/22/96	NA	0.00	2.24	32.09	NA
		10/28/96	NA	0.00	1.97	32.36	NA
		01/30/97	NP	0.00	1.15	33.18	0.00
		04/21/97	NP	0.00	1.13	33.20	0.00
		07/30/97	NP	0.00	2.05	32.28	0.00
		10/14/97	NP	0.00	1.76	32.57	0.00
						SPH Recovered to Date:	**0.00**
MW-22	35.65	03/06/95	NA	0.00	3.32	32.33	NA
		03/27/95	3.23	0.00	3.23	32.42	NA
		04/24/95	3.25	0.00	3.25	32.40	NA
		05/22/95	3.93	0.00	3.93	31.72	NA
		06/19/95	4.34	0.00	4.34	31.31	NA
		07/24/95	4.83	0.00	4.83	30.82	NA
		08/28/95	5.35	0.00	5.35	30.30	NA
		09/25/95	5.94	0.00	5.94	29.71	NA
		10/23/95	5.24	0.00	5.24	30.41	NA
		11/27/95	4.04	0.00	4.04	31.61	NA
		12/28/95	3.26	0.00	3.26	32.39	NA
		01/22/96	2.77	0.00	2.77	32.88	NA
		02/26/96	2.42	0.00	2.42	33.23	NA
		03/25/96	3.47	0.00	3.47	32.18	NA
		04/22/96	3.32	0.00	3.32	32.33	NA
		05/28/96	3.06	0.00	3.06	32.59	NA
		06/24/96	3.93	0.00	3.93	31.72	NA
		07/22/96	4.55	0.00	4.55	31.10	NA
		08/26/96	6.85	0.00	6.85	28.80	NA
		09/23/96	5.66	0.00	5.66	29.99	NA
		10/28/96	4.80	0.00	4.80	30.85	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-22	35.65	11/25/96	3.96	0.00	3.96	31.69	NA
		12/23/96	3.20	0.00	3.20	32.45	NA
		01/30/97	NP	0.00	3.72	31.93	0.00
		04/21/97	NP	0.00	3.27	32.38	0.00
		07/30/97	NP	0.00	4.73	30.92	0.00
		10/14/97	NP	0.00	4.87	30.78	0.00
						SPH Recovered to Date:	**0.00**
MW-23	36.06	03/27/95	9.42	0.00	9.42	26.64	NA
		04/24/95	3.97	0.00	3.97	32.09	NA
		05/22/95	4.50	0.00	4.50	31.56	NA
		06/26/95	4.75	0.00	4.75	31.31	NA
		07/24/95	5.07	0.00	5.07	30.99	NA
		08/28/95	5.44	0.11	5.55	30.60	NA
		10/23/95	5.15	0.00	5.15	30.91	NA
		11/27/95	3.56	0.00	3.56	32.50	NA
		12/28/95	4.27	0.00	4.27	31.79	NA
		01/22/96	NA	0.00	3.49	32.57	NA
		02/26/96	3.59	0.00	3.59	32.47	NA
		03/25/96	4.24	0.00	4.24	31.82	NA
		04/22/96	3.23	0.00	3.23	32.83	NA
		05/28/96	3.97	0.00	3.97	32.09	NA
		06/24/96	4.46	0.00	4.46	31.60	NA
		07/22/96	5.02	0.03	5.05	31.04	NA
		08/28/96	5.80	0.00	5.80	30.26	NA
		09/23/96	5.30	0.06	5.36	30.75	NA
		09/25/96	5.78	0.22	6.00	30.25	NA
		10/28/96	4.73	0.00	4.73	31.33	NA
		11/25/96	3.75	0.00	3.75	32.31	NA
		12/23/96	3.68	0.00	3.68	32.38	NA
		01/30/97	NP	0.00	3.46	32.60	0.00
		04/21/97	NP	0.00	3.89	32.17	0.00
		07/30/97	NP	0.00	5.15	30.91	0.00
		10/14/97	5.82	0.07	5.89	30.23	3.00
						SPH Recovered to Date:	**3.00**
MW-24	35.15	03/06/95	4.15	0.83	4.98	30.88	NA
		04/24/95	5.31	0.94	4.37	31.58	NA
		05/22/95	4.96	0.01	4.95	30.21	NA
		06/26/95	6.50	1.90	8.40	28.36	NA
		07/24/95	7.25	0.24	7.49	27.86	NA
		08/28/95	8.42	1.58	10.00	26.49	NA
		12/01/95	NM	0.00	NM	0.00	28.10
		03/27/96	4.28	0.90	5.18	30.74	NA
		12/01/96	NM	0.00	NM	0.00	1.20
		01/30/97	NP	0.00	5.10	30.05	0.00
		04/21/97	NP	0.00	4.89	30.26	0.00
		07/30/97	8.30	0.16	8.46	26.83	0.25
		10/14/97	NP	0.00	8.13	27.02	1.50

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
						SPH Recovered to Date:	**31.05**
MW-25	34.73	04/22/96	10.00	0.24	10.24	24.69	NA
		09/23/96	11.69	0.00	11.69	23.04	NA
		10/28/96	NA	0.00	11.22	23.51	NA
		11/25/96	NA	0.00	9.95	24.78	NA
		12/23/96	NA	0.00	9.72	25.01	NA
		01/30/97	NP	0.00	9.37	25.36	0.00
		04/21/97	9.90	0.01	9.91	24.83	0.10
		07/24/97	NP	0.00	10.92	23.81	0.00
		10/14/97	NP	0.00	11.30	23.43	0.00
						SPH Recovered to Date:	**0.10**
MW-26	34.78	07/22/96	11.39	0.43	11.82	23.33	NA
		09/11/96	10.00	0.24	10.24	24.74	NA
		09/23/96	11.85	0.25	12.10	22.89	NA
		10/28/96	11.38	0.03	11.41	23.40	NA
		11/25/96	10.36	0.00	10.36	24.42	NA
		12/23/96	10.39	0.00	10.39	24.39	NA
		01/30/97	NP	0.00	10.35	24.43	0.00
		04/21/97	NP	0.00	10.32	24.46	0.10
		07/30/97	11.42	0.01	11.43	23.36	0.10
		10/14/97	11.68	0.02	11.70	23.10	0.50
						SPH Recovered to Date:	**0.70**
MW-27	35.67	02/26/96	3.94	0.00	3.94	31.73	NA
		03/25/96	4.73	0.00	4.73	30.94	NA
		04/22/96	3.71	0.00	3.71	31.96	NA
		05/28/96	4.54	0.00	4.54	31.13	NA
		06/24/96	5.34	0.00	5.34	30.33	NA
		07/22/96	5.73	0.00	5.73	29.94	NA
		08/26/96	5.96	0.00	5.96	29.71	NA
		09/23/96	6.81	0.00	6.81	28.86	NA
		10/28/96	5.35	0.00	5.35	30.32	NA
		11/25/96	3.34	0.00	3.34	32.33	NA
		12/23/96	4.04	0.00	4.04	31.63	NA
		01/30/97	NP	0.00	4.37	31.30	0.00
		04/21/97	NP	0.00	4.44	31.23	0.00
		07/30/97	NP	0.00	5.69	29.98	0.00
		10/14/97	NP	0.00	5.29	30.38	0.00
						SPH Recovered to Date:	**0.00**
MW-28	34.39	03/06/95	NA	0.00	4.41	29.98	NA
		03/27/95	4.74	0.01	4.75	29.65	NA
		04/24/95	5.26	0.00	5.26	29.13	NA
		05/22/95	6.00	0.02	6.02	28.39	NA
		06/26/95	6.50	0.09	6.59	27.88	NA
		07/24/95	6.94	0.00	6.94	27.45	NA
		08/28/95	8.04	0.01	8.05	26.35	0.75
		10/23/95	7.60	0.00	7.60	26.79	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-28	34.39	11/27/95	4.04	0.00	4.04	30.35	0.03
		12/28/95	4.25	0.00	4.25	30.14	NA
		01/22/96	2.29	0.00	2.29	32.10	NA
		02/26/96	3.78	0.00	3.78	30.61	NA
		03/25/96	5.10	0.00	5.10	29.29	NA
		04/22/96	4.22	0.00	4.22	30.17	NA
		05/28/96	4.66	0.00	4.66	29.73	NA
		06/24/96	6.01	0.00	6.01	28.38	NA
		07/22/96	6.77	0.00	6.77	27.62	NA
		08/28/96	7.56	0.00	7.56	26.83	NA
		09/23/96	6.28	0.00	6.28	28.11	NA
		09/25/96	11.75	0.00	11.75	22.64	1.03
		10/28/96	5.03	0.00	5.03	29.36	NA
		11/25/96	2.50	0.00	2.50	31.89	NA
		12/23/96	4.38	0.01	4.39	30.01	NA
		01/30/97	NP	0.00	3.71	30.68	0.00
		04/21/97	4.72	0.03	4.75	29.67	0.50
		07/30/97	NP	0.00	6.30	28.09	0.00
		10/14/97	5.87	0.02	5.89	28.52	1.00
						SPH Recovered to Date:	3.31
MW-29	35.77	04/24/95	NA	0.00	13.34	22.43	NA
		07/24/95	NA	0.00	14.20	21.57	NA
		10/23/95	NA	0.00	14.86	20.91	NA
		01/22/96	NA	0.00	12.70	23.07	NA
		04/22/96	NA	0.00	12.75	23.02	NA
		07/22/96	NA	0.00	13.64	22.13	NA
		10/28/96	NA	0.00	14.15	21.62	NA
		01/30/97	NP	0.00	13.41	22.36	0.00
		04/21/97	NP	0.00	12.89	22.88	0.00
		07/30/97	NP	0.00	13.58	22.19	0.00
		10/14/97	NP	0.00	14.17	21.60	0.00
						SPH Recovered to Date:	0.00
MW-30	36.39	01/30/97	NP	0.00	4.43	31.96	0.00
		04/21/97	NP	0.00	4.65	31.74	0.00
		07/30/97	NP	0.00	6.00	30.39	0.00
		10/14/97	NP	0.00	5.79	30.60	0.00
						SPH Recovered to Date:	0.00
MW-31	37.55	03/06/95	NA	0.00	5.64	31.91	NA
		03/27/95	5.75	0.01	5.76	31.80	NA
		04/24/95	6.09	0.00	6.09	31.46	NA
		05/22/95	6.70	0.00	6.70	30.85	NA
		06/26/95	7.26	0.00	7.26	30.29	NA
		07/24/95	7.74	0.00	7.74	29.81	NA
		08/28/95	8.41	0.00	8.41	29.14	NA
		10/23/95	8.56	0.00	8.56	28.99	NA
		11/27/95	6.33	0.00	6.33	31.22	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-31	37.55	12/28/95	5.90	0.00	5.90	31.65	NA
		01/22/96	4.62	0.00	4.62	32.93	NA
		02/26/96	4.92	0.00	4.92	32.63	NA
		03/25/96	6.02	0.00	6.02	31.53	NA
		04/22/96	5.57	0.00	5.57	31.98	NA
		05/28/96	5.73	0.00	5.73	31.82	NA
		06/24/96	6.72	0.00	6.72	30.83	NA
		07/22/96	7.38	0.00	7.38	30.17	NA
		08/28/96	8.02	0.00	8.02	29.53	NA
		09/23/96	7.48	0.00	7.48	30.07	NA
		09/25/96	8.96	0.00	8.96	28.59	NA
		10/28/96	6.68	0.00	6.68	30.87	NA
		11/25/96	4.92	0.00	4.92	32.63	NA
		12/23/96	5.08	0.00	5.08	32.47	NA
		01/30/97	NP	0.00	5.45	32.10	0.00
		04/21/97	NP	0.00	5.73	31.82	0.00
		07/30/97	NP	0.00	7.32	30.23	0.00
		10/14/97	NP	0.00	7.19	30.36	0.00
						SPH Recovered to Date:	**0.00**
MW-32	37.01	04/24/95	NA	0.00	4.27	32.74	NA
		07/24/95	NA	0.00	5.75	31.26	NA
		10/23/95	NA	0.00	6.40	30.61	NA
		04/22/96	NA	0.00	3.89	33.12	NA
		07/22/96	NA	0.00	5.45	31.56	NA
		10/28/96	NA	0.00	5.59	31.42	NA
		01/30/97	NP	0.00	4.37	32.64	0.00
		04/21/97	NP	0.00	4.02	32.99	0.00
		07/30/97	NP	0.00	5.49	31.52	0.00
		10/14/97	NP	0.00	5.57	31.44	0.00
						SPH Recovered to Date:	**0.00**
MW-33	39.34	04/24/95	NA	0.00	19.93	19.41	NA
		07/24/95	NA	0.00	20.68	18.66	NA
		10/23/95	NA	0.00	21.05	18.29	NA
		01/22/96	NA	0.00	19.07	20.27	NA
		04/22/96	NA	0.00	19.48	19.86	NA
		07/22/96	NA	0.00	20.26	19.08	NA
		10/28/96	NA	0.00	20.58	18.76	NA
		01/30/97	NP	0.00	18.92	20.42	0.00
		04/21/97	NP	0.00	19.61	19.73	0.00
		07/30/97	NP	0.00	20.03	19.31	0.00
		10/14/97	NP	0.00	20.54	18.80	0.00
						SPH Recovered to Date:	**0.00**
MW-34	39.67	04/24/95	NA	0.00	19.40	20.27	NA
		07/24/95	NA	0.00	19.99	19.68	NA
		10/23/95	NA	0.00	20.26	19.41	NA
		01/22/96	NA	0.00	18.71	20.96	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-34	39.67	04/22/96	NA	0.00	19.43	20.24	NA
		07/22/96	NA	0.00	19.74	19.93	NA
		10/28/96	NA	0.00	20.18	19.49	NA
		01/30/97	NP	0.00	18.78	20.89	0.00
		04/21/97	NP	0.00	19.41	20.26	0.00
		07/30/97	NP	0.00	19.76	19.91	0.00
		10/14/97	NP	0.00	20.04	19.63	0.00
						SPH Recovered to Date:	**0.00**
MW-35	33.39	01/30/97	NP	0.00	2.08	31.31	0.00
		04/21/97	NP	0.00	2.58	30.81	0.00
		10/14/97	NP	0.00	4.03	29.36	0.00
						SPH Recovered to Date:	**0.00**
MW-36	34.88	04/24/95	NA	0.00	19.40	15.48	NA
		07/24/95	NA	0.00	19.99	14.89	NA
		10/23/95	NA	0.00	20.26	14.62	NA
		01/22/96	NA	0.00	13.74	21.14	NA
		04/22/96	NA	0.00	13.72	21.16	NA
		07/22/96	NA	0.00	14.90	19.98	NA
		10/28/96	NA	0.00	15.54	19.34	NA
		01/30/97	NP	0.00	13.02	21.86	0.00
		04/21/97	NP	0.00	13.98	20.90	0.00
		07/30/97	NP	0.00	14.51	20.37	0.00
		10/14/97	NP	0.00	15.15	19.73	0.00
						SPH Recovered to Date:	**0.00**
MW-37	34.86	04/24/95	NA	0.00	14.96	19.90	NA
		07/24/95	NA	0.00	15.88	18.98	NA
		10/23/95	NA	0.00	16.37	18.49	NA
		01/22/96	NA	0.00	14.22	20.64	NA
		04/22/96	NA	0.00	13.72	21.14	NA
		07/22/96	NA	0.00	15.28	19.58	NA
		10/28/96	NA	0.00	15.80	19.06	NA
		01/30/97	NP	0.00	13.44	21.42	NA
		04/21/97	NP	0.00	14.48	20.38	NA
		07/30/97	NP	0.00	15.15	19.71	0.00
		10/14/97	NP	0.00	15.76	19.10	0.00
						SPH Recovered to Date:	**0.00**
MW-38	37.50	01/30/97	NP	0.00	3.98	33.52	0.00
		04/21/97	NP	0.00	4.84	32.66	0.00
		10/14/97	NP	0.00	7.39	30.11	0.00
						SPH Recovered to Date:	**0.00**
MW-39	35.02	06/24/96	13.01	0.00	13.01	22.01	NA
		07/22/96	13.45	0.00	13.45	21.57	NA
		08/26/96	13.90	0.00	13.90	21.12	NA
		09/23/96	14.08	0.00	14.08	20.94	NA
		10/28/96	14.00	0.00	14.00	21.02	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-39	35.02	11/25/96	13.54	0.00	13.54	21.48	NA
		12/23/96	12.77	0.00	12.77	22.25	NA
		01/30/97	NM	0.00	NM	0.00	0.00
		04/21/97	NM	0.00	NM	0.00	0.00
		10/14/97	NP	0.00	13.99	21.03	0.00
						SPH Recovered to Date:	**0.00**
MW-40	33.65	06/24/96	13.81	0.00	13.81	19.84	NA
		07/22/96	14.32	0.00	14.32	19.33	NA
		08/26/96	14.77	0.00	14.77	18.88	NA
		09/23/96	14.83	0.00	14.83	18.82	NA
		10/28/96	14.63	0.00	14.63	19.02	NA
		11/25/96	13.78	0.00	13.78	19.87	NA
		12/23/96	13.37	0.00	13.37	20.28	NA
		01/30/97	NP	0.00	12.74	20.91	0.00
		04/21/97	NP	0.00	13.65	20.00	0.00
		07/30/97	NP	0.00	14.24	19.41	0.00
		10/14/97	NP	0.00	14.62	19.03	0.00
						SPH Recovered to Date:	**0.00**
						GATX total SPH Recovered to Date:	**198.55**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco				
B-1	34.79	04/24/95	17.42	0.49	17.91	17.30	NA
		05/22/95	17.57	0.47	18.04	17.15	NA
		06/26/95	17.75	0.48	18.23	16.97	NA
		07/24/95	17.98	0.02	18.00	16.81	0.00
		08/28/95	18.32	0.02	18.34	16.47	NA
		09/25/95	18.37	0.14	18.51	16.40	NA
		10/23/95	18.30	0.01	18.31	16.49	NA
		11/27/95	17.94	0.03	17.97	16.85	0.01
		12/28/95	16.75	0.16	16.91	18.02	0.85
		01/22/96	16.73	0.12	16.85	18.04	0.01
		02/26/96	13.40	0.02	13.42	21.39	0.08
		04/22/96	16.20	0.15	16.35	18.57	0.01
		05/28/96	16.21	0.00	16.21	18.58	NA
		06/24/96	16.68	0.01	16.69	18.11	NA
		07/22/96	17.20	0.02	17.22	17.59	NA
		08/23/96	17.49	0.03	17.52	17.30	NA
		09/23/96	17.72	0.01	17.73	17.07	NA
		10/28/96	17.18	0.01	17.19	17.61	NA
		01/31/97	15.94	0.16	16.10	18.83	NA
		04/21/97	16.87	0.12	16.99	17.90	NA
		07/28/97	17.15	0.65	17.80	17.54	NA
		10/14/97	17.68	0.62	18.30	17.02	0.50
						SPH Recovered to Date:	1.46
B-2	35.35	03/28/95	NA	0.00	16.84	18.51	NA
		04/24/95	NA	0.00	17.02	18.33	NA
		05/22/95	NA	0.00	17.22	18.13	NA
		06/26/95	NA	0.00	17.48	17.87	NA
		08/28/95	19.58	0.26	19.84	15.73	NA
		09/25/95	NA	0.00	18.18	17.17	NA
		10/23/95	NA	0.00	18.15	17.20	NA
		12/28/95	NA	0.00	16.56	18.79	NA
		01/22/96	16.48	0.02	16.50	18.87	NA
		04/22/96	NA	0.00	16.28	19.07	NA
		05/28/96	NA	0.00	16.14	19.21	NA
		06/24/96	NA	0.00	16.50	18.85	NA
		07/22/96	NA	0.00	16.99	18.36	NA
		08/23/96	NA	0.00	17.48	17.87	NA
		09/23/96	NA	0.00	17.50	17.85	NA
		10/28/96	NA	0.00	17.60	17.75	NA
		01/31/97	NP	0.00	15.69	19.66	0.00
		04/21/97	NP	0.00	16.52	18.83	0.00
		07/28/97	NP	0.00	16.94	18.41	0.00
		10/14/97	NP	0.00	17.57	17.78	0.00
						SPH Recovered to Date:	0.00
B-3	36.79	01/31/97	NP	0.00	17.26	19.53	0.00
		04/21/97	NP	0.00	18.48	18.31	0.00
		07/28/97	NP	0.00	18.83	17.96	0.00

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-3	36.79	10/14/97	NP	0.00	19.38	17.41	0.00
						SPH Recovered to Date:	**0.00**
B-4	34.79	03/28/95	17.92	0.71	18.63	16.76	NA
		04/24/95	18.01	1.16	19.17	16.61	NA
		05/22/95	18.11	1.13	19.24	16.51	NA
		06/26/95	18.27	1.01	19.28	16.37	NA
		07/24/95	18.53	0.11	18.64	16.24	0.15
		08/28/95	18.62	0.01	18.63	16.17	NA
		09/25/95	18.82	0.13	18.95	15.95	NA
		10/23/95	18.83	0.02	18.85	15.96	NA
		11/27/95	18.56	0.06	18.62	16.22	0.37
		01/22/96	17.60	0.04	17.64	17.18	0.24
		02/26/96	NA	0.00	13.68	21.11	NA
		04/22/96	16.35	0.09	16.44	18.43	0.02
		05/28/96	16.35	0.07	16.42	18.43	0.02
		08/23/96	18.35	0.00	18.35	16.44	NA
		09/23/96	18.44	0.01	18.45	16.35	NA
		10/28/96	17.56	1.03	18.59	17.08	NA
		01/31/97	17.00	0.48	17.48	17.72	3.25
		04/21/97	NP	0.00	17.71	17.08	0.10
		07/28/97	18.50	0.02	18.52	16.29	0.10
		10/15/97	18.55	0.01	18.56	16.24	1.50
						SPH Recovered to Date:	5.75
B-5	34.79	01/22/96	NA	0.00	16.18	18.61	NA
		02/26/96	NA	0.00	14.40	20.39	NA
		05/28/96	NA	0.00	15.59	19.20	NA
		06/24/96	DRY	0.00	DRY	0.00	DRY
		07/22/96	DRY	0.00	DRY	0.00	DRY
		08/23/96	DRY	0.00	DRY	0.00	DRY
		09/23/96	NA	0.00	17.02	17.77	NA
		10/28/96	NA	0.00	17.10	17.69	NA
	34.83	01/31/97	NP	0.00	15.30	19.53	0.00
		04/21/97	NP	0.00	16.08	18.75	0.00
		07/28/97	NP	0.00	16.54	18.29	0.00
		10/14/97	NP	0.00	17.10	17.73	0.00
						SPH Recovered to Date:	**0.00**
B-6	35.41	01/22/96	NP	0.00	16.44	18.97	NA
		02/26/96	NP	0.00	15.60	19.81	NA
		04/22/96	NA	0.00	16.15	19.26	NA
		05/28/96	NA	0.00	16.11	19.30	NA
		06/24/96	NA	0.00	16.47	18.94	NA
		07/22/96	NA	0.00	16.91	18.50	NA
		08/23/96	NA	0.00	17.99	17.42	NA
		09/23/96	NA	0.00	17.45	17.96	NA
		10/28/96	NA	0.00	17.34	18.07	NA
		01/31/97	NP	0.00	15.47	19.94	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-6	35.41	04/21/97	NP	0.00	16.31	19.10	0.00
		07/28/97	NP	0.00	16.87	18.54	0.00
		10/14/97	NP	0.00	17.47	17.94	0.00
						SPH Recovered to Date:	**0.00**
B-16	35.82	03/24/95	NA	0.00	16.99	18.83	NA
		04/24/95	NA	0.00	17.12	18.70	NA
		05/22/95	NA	0.00	17.37	18.45	NA
		06/19/95	NA	0.00	17.59	18.23	NA
		07/24/95	NA	0.00	17.89	17.93	NA
		08/28/95	NA	0.00	18.10	17.72	NA
		09/25/95	NA	0.00	18.35	17.47	NA
		10/23/95	NA	0.00	18.30	17.52	NA
		11/27/95	NA	0.00	17.90	17.92	NA
		01/22/96	NA	0.00	0.00	35.82	NA
		02/26/96	NA	0.00	13.30	22.52	NA
		04/22/96	NA	0.00	16.04	19.78	NA
		05/28/96	NA	0.00	16.39	19.43	NA
		06/24/96	NA	0.00	16.71	19.11	NA
		07/22/96	NA	0.00	17.19	18.63	NA
		09/23/96	NA	0.00	17.76	18.06	NA
		10/28/96	NA	0.00	17.82	18.00	NA
		01/31/97	NP	0.00	15.75	20.07	0.00
		04/21/97	NP	0.00	16.65	19.17	0.00
		07/28/97	NP	0.00	17.15	18.67	0.00
		10/14/97	NP	0.00	17.79	18.03	0.00
						SPH Recovered to Date:	**0.00**
B-17	35.59	03/28/95	16.95	0.00	16.95	18.64	NA
		04/24/95	NA	0.00	17.15	18.44	NA
		05/22/95	17.36	0.00	17.36	18.23	NA
		06/26/95	17.61	0.00	17.61	17.98	NA
		07/24/95	17.79	0.01	17.80	17.80	NA
		08/28/95	18.78	0.01	18.79	16.81	NA
		09/25/95	NA	0.00	18.23	17.36	NA
		10/23/95	NA	0.00	18.21	17.38	NA
		11/27/95	17.85	0.00	17.85	17.74	NA
		12/28/95	NA	0.00	16.85	18.74	NA
		01/22/96	NA	0.00	16.78	18.81	NA
		02/26/96	13.35	0.01	13.36	22.24	NA
		04/22/96	16.44	0.00	16.44	19.15	NA
		05/28/96	16.40	0.00	16.40	19.19	NA
		06/24/96	16.40	0.00	16.40	19.19	NA
		07/22/96	17.16	0.00	17.16	18.43	NA
		08/23/96	17.57	0.00	17.57	18.02	NA
		09/23/96	NA	0.00	17.68	17.91	NA
		10/28/96	NA	0.00	17.75	17.84	NA
		01/31/97	NP	0.00	15.86	19.73	0.00
		04/21/97	NP	0.00	16.66	18.93	0.00

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-17	35.59	07/28/97	NP	0.00	17.15	18.44	0.00
		10/14/97	NP	0.00	17.74	17.85	0.00
						SPH Recovered to Date:	**0.00**
B-18	35.79	03/28/95	NA	0.00	19.28	16.51	NA
		04/24/95	NA	0.00	19.38	16.41	NA
		05/22/95	NA	0.00	19.44	16.35	NA
		06/26/95	NA	0.00	19.56	16.23	NA
		07/24/95	NA	0.00	19.74	16.05	NA
		08/28/95	NA	0.00	19.43	16.36	NA
		09/25/95	NA	0.00	20.02	15.77	NA
		10/23/95	NA	0.00	20.08	15.71	NA
		12/28/95	NA	0.00	18.66	17.13	NA
		01/22/96	0.00	18.20	18.20	33.06	NA
		02/26/96	0.00	18.38	18.38	33.03	NA
		04/22/96	NA	0.00	18.50	17.29	NA
		05/28/96	NA	0.00	17.84	17.95	NA
		06/24/96	NA	0.00	18.35	17.44	NA
		07/22/96	NA	0.00	18.97	16.82	NA
		08/23/96	NA	0.00	17.50	18.29	NA
		09/23/96	NA	0.00	19.43	16.36	NA
		10/28/96	NA	0.00	19.47	16.32	NA
		01/31/97	NP	0.00	18.09	17.70	0.00
		04/21/97	NP	0.00	18.94	16.85	0.00
		07/28/97	NP	0.00	19.14	16.65	0.00
		10/14/97	NP	0.00	19.64	16.15	0.00
						SPH Recovered to Date:	**0.00**
B-22	35.83	03/28/95	NA	0.00	18.50	17.33	NA
		04/24/95	NA	0.00	19.10	16.73	NA
		05/22/95	NA	0.00	19.09	16.74	NA
		06/26/95	NA	0.00	19.26	16.57	NA
		09/25/95	NA	0.00	20.50	15.33	NA
		10/23/95	NA	0.00	19.96	15.87	NA
		12/28/95	NA	0.00	18.59	17.24	0.02
		01/22/96	NA	0.00	18.88	16.95	NA
		02/26/96	NA	0.00	12.05	23.78	NA
		04/22/96	NA	0.00	17.75	18.08	NA
		05/28/96	NA	0.00	17.31	18.52	NA
		06/24/96	NA	0.00	18.12	17.71	NA
		07/22/96	NA	0.00	19.09	16.74	NA
		08/23/96	NA	0.00	19.03	16.80	NA
		09/23/96	NA	0.00	19.79	16.04	NA
		10/28/96	NA	0.00	19.75	16.08	NA
		01/31/97	17.92	0.01	17.93	17.91	0.10
		04/21/97	NP	0.00	18.67	17.16	0.00
		07/28/97	18.89	2.26	21.15	16.60	1.00
		10/14/97	19.56	0.04	19.60	16.26	1.75

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
						SPH Recovered to Date:	**2.87**
B-25	37.60	04/21/97	NP	0.00	15.29	22.31	0.00
		10/14/97	NP	0.00	19.75	17.85	0.00
						SPH Recovered to Date:	**0.00**
B-27	35.74	03/28/95	17.25	0.27	17.52	18.45	NA
		04/24/95	17.70	0.31	18.01	17.99	NA
		05/22/95	17.85	0.32	18.17	17.84	NA
		06/26/95	17.91	1.12	19.03	17.66	NA
		07/24/95	18.11	1.14	19.25	17.46	NA
		08/28/95	18.75	0.50	19.25	16.92	NA
		09/25/95	18.50	1.10	19.60	17.08	NA
		10/23/95	18.59	1.10	19.69	16.99	NA
		11/27/95	18.50	0.30	18.80	17.19	0.80
		01/22/96	17.44	0.43	17.87	18.24	0.78
		02/26/96	13.38	0.31	13.69	22.31	0.25
		04/22/96	16.68	0.27	16.95	19.02	0.12
		08/23/96	18.12	0.56	18.68	17.54	0.31
		09/23/96	18.34	0.36	18.70	17.35	NA
		10/28/96	18.58	0.11	18.69	17.14	NA
		01/31/97	16.43	2.20	18.63	18.98	4.00
		04/21/97	17.37	0.13	17.50	18.35	0.60
		07/25/97	NP	0.00	17.86	17.88	0.00
		10/15/97	18.52	0.01	18.53	17.22	0.75
						SPH Recovered to Date:	**7.61**
B-35	33.58	04/24/95	16.10	0.23	16.33	17.45	NA
		05/22/95	16.24	0.19	16.43	17.31	NA
		06/26/95	16.45	0.23	16.68	17.10	NA
		07/24/95	16.65	0.21	16.86	16.90	NA
		08/28/95	17.35	0.17	17.52	16.20	NA
		09/25/95	17.02	0.30	17.32	16.51	NA
		10/23/95	16.94	0.21	17.15	16.61	NA
		11/27/95	16.50	0.06	16.56	17.07	0.08
		12/28/95	15.60	0.01	15.61	17.98	0.02
		01/22/96	15.52	0.05	15.57	18.05	NA
		02/26/96	13.50	0.05	13.55	20.07	NA
		04/22/96	17.78	0.06	17.84	15.79	NA
		05/28/96	15.08	0.00	15.08	18.50	NA
		06/24/96	NA	0.00	15.54	18.04	NA
		07/22/96	NA	0.00	16.06	17.52	NA
		08/23/96	NA	0.00	16.85	16.73	NA
		09/23/96	NA	0.00	16.60	16.98	NA
		10/28/96	16.85	0.06	16.91	16.72	NA
		01/31/97	NP	0.00	14.84	18.74	0.00
		04/21/97	NP	0.00	15.74	17.84	0.00
		07/28/97	NP	0.00	16.05	17.53	0.00
		10/14/97	NP	0.00	16.57	17.01	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
						SPH Recovered to Date:	**0.10**
B-36	30.97	03/28/95	NA	0.00	14.65	16.32	NA
		04/24/95	NA	0.00	14.95	16.02	NA
		05/22/95	NA	0.00	15.03	15.94	NA
		06/26/95	NA	0.00	15.24	15.73	NA
		07/24/95	NA	0.00	15.47	15.50	NA
		08/28/95	NA	0.00	15.35	15.62	NA
		09/25/95	NA	0.00	15.82	15.15	NA
		10/23/95	NA	0.00	15.60	15.37	NA
		12/28/95	NA	0.00	13.91	17.06	NA
		01/22/96	0.00	13.93	13.93	28.88	NA
		02/26/96	0.00	10.75	10.75	29.36	NA
		04/22/96	NA	0.00	14.10	16.87	NA
		05/28/96	NA	0.00	13.01	17.96	NA
		06/24/96	NA	0.00	13.84	17.13	NA
		07/22/96	NA	0.00	15.01	15.96	NA
		08/23/96	NA	0.00	15.81	15.16	NA
		09/23/96	NA	0.00	15.65	15.32	NA
		10/28/96	NA	0.00	15.55	15.42	NA
		01/31/97	NP	0.00	13.44	17.53	0.00
		04/21/97	NP	0.00	14.66	16.31	0.00
		07/28/97	NP	0.00	15.01	15.96	0.00
		10/14/97	NP	0.00	15.55	15.42	0.00
						SPH Recovered to Date:	**0.00**
B-37	35.24	03/28/95	NA	0.00	18.51	16.73	NA
		04/24/95	NA	0.00	19.66	15.58	NA
		05/22/95	NA	0.00	19.62	15.62	NA
		06/26/95	NA	0.00	19.75	15.49	NA
		07/24/95	NA	0.00	20.08	15.16	NA
		08/28/95	NA	0.00	20.10	15.14	NA
		09/25/95	20.41	0.01	20.42	14.83	NA
		10/23/95	20.44	0.01	20.45	14.80	NA
		11/27/95	19.90	0.00	19.90	15.34	NA
		12/28/95	19.66	0.00	19.66	15.58	NA
		01/22/96	18.20	0.03	18.23	17.04	NA
		02/26/96	NA	0.00	14.15	21.09	NA
		04/22/96	NA	0.00	18.90	16.34	NA
		05/28/96	NA	0.00	17.94	17.30	NA
		06/24/96	NA	0.00	19.13	16.11	NA
		07/22/96	NA	0.00	20.13	15.11	NA
		08/23/96	NA	0.00	20.15	15.09	NA
		09/23/96	NA	0.00	20.76	14.48	NA
		10/28/96	NA	0.00	20.87	14.37	NA
		01/31/97	NP	0.00	19.29	15.95	2.00
		04/21/97	NP	0.00	19.98	15.26	0.00
		07/28/97	NP	0.00	20.30	14.94	0.00
		10/14/97	NP	0.00	20.86	14.38	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
						SPH Recovered to Date:	**2.00**
B-38	34.75	03/28/95	18.95	1.95	20.90	15.51	NA
		04/24/95	19.17	1.51	20.68	15.35	NA
		05/22/95	19.13	1.45	20.58	15.40	NA
		06/26/95	19.30	1.16	20.46	15.28	NA
		07/24/95	19.75	0.17	19.92	14.97	0.20
		08/28/95	19.82	0.71	20.53	14.82	NA
		09/25/95	19.99	1.03	21.02	14.61	NA
		10/23/95	20.00	1.03	21.03	14.60	NA
		11/27/95	19.50	0.32	19.82	15.20	0.81
		01/22/96	18.89	0.14	19.03	15.84	0.45
		02/26/96	13.70	0.37	14.07	20.99	1.31
		04/22/96	18.63	0.25	18.88	16.08	NA
		07/22/96	19.59	1.25	20.84	14.97	NA
		08/23/96	18.70	0.03	18.73	16.05	NA
		09/23/96	20.18	0.78	20.96	14.45	NA
		10/28/96	20.18	0.70	20.88	14.47	NA
		01/31/97	18.80	0.45	19.25	15.88	2.00
		04/21/97	19.39	0.64	20.03	15.26	0.60
		07/25/97	19.78	0.21	19.99	14.94	0.75
		10/14/97	20.30	0.01	20.31	14.45	1.50
						SPH Recovered to Date:	**7.62**
B-39	33.92	03/28/95	18.14	0.04	18.18	15.77	NA
		04/24/95	18.31	0.03	18.34	15.61	NA
		05/22/95	18.28	0.03	18.31	15.64	NA
		06/26/95	18.43	0.09	18.52	15.48	NA
		07/24/95	18.73	0.13	18.86	15.17	NA
		08/28/95	18.95	0.11	19.06	14.95	NA
		09/25/95	19.08	0.14	19.22	14.82	NA
		10/23/95	19.09	0.20	19.29	14.80	NA
		11/27/95	19.55	0.07	19.62	14.36	0.11
		12/28/95	18.05	0.18	18.23	15.84	0.04
		01/22/96	17.03	0.07	17.10	16.88	0.01
		02/26/96	13.54	0.46	14.00	20.31	0.03
		04/22/96	18.65	0.08	18.73	15.26	0.90
		05/28/96	16.64	0.12	16.76	17.26	0.02
		06/24/96	17.67	0.72	18.39	16.14	0.03
		07/22/96	18.68	0.03	18.71	15.24	0.01
		08/23/96	19.18	0.87	20.05	14.61	0.40
		09/23/96	19.42	0.09	19.51	14.49	NA
		10/28/96	19.25	0.04	19.29	14.66	NA
		01/31/97	18.27	0.91	19.18	15.51	2.00
		04/21/97	18.43	0.10	18.53	15.48	0.40
		07/25/97	18.72	0.97	19.69	15.05	2.75
		10/15/97	19.45	0.76	20.21	14.36	3.30
						SPH Recovered to Date:	**10.00**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-40	33.19	03/28/95	17.55	0.09	17.64	15.63	NA
		04/24/95	17.84	0.12	17.96	15.33	NA
		05/22/95	17.75	0.11	17.86	15.42	NA
		06/26/95	17.95	0.11	18.06	15.22	NA
		08/28/95	18.40	0.01	18.41	14.79	NA
		09/25/95	NA	0.00	18.77	14.42	NA
		10/23/95	18.74	0.01	18.75	14.45	NA
		11/27/95	17.98	0.02	18.00	15.21	NA
		12/28/95	17.23	0.00	17.23	15.96	NA
		01/22/96	NA	0.00	16.40	16.79	NA
		02/26/96	NA	0.00	12.75	20.44	NA
		04/22/96	17.01	0.00	17.01	16.18	NA
		05/28/96	15.78	0.29	16.07	17.37	NA
		06/24/96	16.99	0.15	17.14	16.18	0.23
		07/22/96	18.32	0.12	18.44	14.85	0.01
		08/23/96	18.87	0.06	18.93	14.31	0.02
		09/23/96	19.06	0.06	19.12	14.12	NA
		10/28/96	NA	0.00	19.02	14.17	NA
		01/31/97	16.76	0.54	17.30	16.35	NA
		04/21/97	17.79	0.02	17.81	15.40	0.40
		07/25/97	18.86	0.04	18.90	14.32	1.50
		10/14/97	NP	0.00	19.89	13.30	0.25
						SPH Recovered to Date:	2.41
B-41	34.85	03/28/95	18.80	0.08	18.88	16.04	NA
		04/24/95	18.93	0.06	18.99	15.91	NA
		05/22/95	18.95	0.07	19.02	15.89	NA
		06/26/95	19.11	0.06	19.17	15.73	NA
		08/28/95	18.55	0.70	19.25	16.19	NA
		09/25/95	19.73	0.20	19.93	15.09	NA
		10/23/95	19.70	0.60	20.30	15.06	NA
		11/27/95	18.50	0.15	18.65	16.33	0.23
		01/22/96	17.38	0.04	17.42	17.46	0.18
		02/26/96	13.40	0.41	13.81	21.39	NA
		04/22/96	12.75	0.23	12.98	22.07	NA
		09/23/96	19.38	0.02	19.40	15.47	0.06
		10/28/96	19.87	0.08	19.95	14.97	NA
		01/31/97	NP	0.00	18.31	16.54	0.00
		04/21/97	18.51	0.03	18.54	16.34	0.20
		07/25/97	18.13	0.70	18.83	16.61	0.10
		10/14/97	NP	0.00	19.40	15.45	0.00
						SPH Recovered to Date:	0.77
IT-E	36.44	01/31/97	18.85	0.62	19.47	17.50	0.50
		04/21/97	19.69	0.63	20.32	16.66	0.30
		07/28/97	20.05	0.60	20.65	16.30	2.00
		10/14/97	20.69	0.03	20.72	15.75	0.80
						SPH Recovered to Date:	3.60

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
IT-W	35.99	01/31/97	NP	0.00	16.65	19.34	0.00
		04/21/97	NP	0.00	17.44	18.55	0.00
		07/28/97	NP	0.00	17.81	18.18	0.00
		10/14/97	NP	0.00	18.33	17.66	0.00
						SPH Recovered to Date:	**0.00**
RES-N	38.58	03/28/95	23.14	0.76	23.90	15.33	NA
		04/24/95	23.17	1.74	24.91	15.15	NA
		05/22/95	23.17	0.75	23.92	15.30	NA
		06/26/95	23.26	0.75	24.01	15.21	NA
		08/28/95	23.64	0.68	24.32	14.84	NA
		09/25/95	23.75	0.50	24.25	14.76	NA
		10/23/95	23.80	0.60	24.40	14.69	NA
		11/27/95	23.26	0.60	23.86	15.23	1.59
		12/28/95	22.59	0.02	22.61	15.99	1.21
		01/22/96	20.91	0.03	20.94	17.67	5.00
		02/26/96	23.34	0.76	24.10	15.13	41.25
		04/22/96	22.14	0.02	22.16	16.44	NA
		05/28/96	21.11	0.00	21.11	17.47	NA
		06/24/96	22.41	0.00	22.41	16.17	NA
		07/22/96	22.88	0.00	22.88	15.70	NA
		07/24/96	23.45	0.76	24.21	15.02	NA
		08/23/96	NA	0.00	22.21	16.37	NA
		09/23/96	23.74	0.02	23.76	14.84	NA
		10/28/96	NA	0.00	24.32	14.26	NA
		01/31/97	22.45	0.09	22.54	16.12	2.00
		04/21/97	23.00	0.01	23.01	15.58	NA
		07/28/97	23.46	0.02	23.48	15.12	0.10
		10/14/97	23.84	0.02	23.86	14.74	1.30
						SPH Recovered to Date:	**52.45**
RES-O	36.03	03/28/95	17.61	0.04	17.65	18.41	NA
		04/24/95	17.78	0.02	17.80	18.25	NA
		05/22/95	17.99	0.02	18.01	18.04	NA
		06/26/95	18.26	0.02	18.28	17.77	NA
		08/28/95	17.30	0.25	17.55	18.69	NA
		09/25/95	18.60	0.61	19.21	17.34	NA
		10/23/95	18.90	0.14	19.04	17.11	NA
		11/27/95	19.25	0.01	19.26	16.78	0.01
		12/28/95	17.53	0.01	17.54	18.50	NA
		01/22/96	17.42	0.07	17.49	18.60	NA
		02/26/96	12.50	0.11	12.61	23.51	NA
		04/22/96	10.95	0.10	11.05	25.07	NA
		05/28/96	16.82	0.00	16.82	19.21	NA
		06/24/96	17.18	0.01	17.19	18.85	NA
		07/22/96	17.53	0.01	17.54	18.50	NA
		08/23/96	18.10	0.01	18.11	17.93	NA
		09/23/96	18.22	0.08	18.30	17.80	NA
		10/28/96	18.10	0.05	18.15	17.92	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
RES-O	36.03	01/31/97	NP	0.00	16.20	19.83	0.00
		04/21/97	NP	0.00	17.00	19.03	0.00
		07/28/97	NP	0.00	17.65	18.38	0.00
		10/14/97	NP	0.00	18.39	17.64	0.00
						SPH Recovered to Date:	**0.01**
U-2	35.02	03/28/95	NA	0.00	14.88	20.14	NA
		04/24/95	NA	0.00	15.10	19.92	NA
		05/22/95	NA	0.00	15.25	19.77	NA
		06/26/95	NA	0.00	15.52	19.50	NA
		07/24/95	NA	0.00	15.75	19.27	NA
		08/28/95	NA	0.00	15.65	19.37	NA
		09/25/95	NA	0.00	15.20	19.82	NA
		10/23/95	NA	0.00	16.57	18.45	NA
		12/28/95	NA	0.00	15.06	19.96	NA
		01/22/96	NA	0.00	16.44	18.58	NA
		02/26/96	NA	0.00	14.35	20.67	NA
		04/22/96	NA	0.00	15.01	20.01	NA
		05/28/96	NA	0.00	13.98	21.04	NA
		06/24/96	NA	0.00	14.36	20.66	NA
		07/22/96	NA	0.00	14.96	20.06	NA
		08/23/96	NA	0.00	15.10	19.92	NA
		09/23/96	NA	0.00	14.93	20.09	NA
		10/28/96	NA	0.00	14.85	20.17	NA
		01/31/97	NP	0.00	13.86	21.16	0.00
		04/21/97	NP	0.00	14.52	20.50	0.00
		07/28/97	NP	0.00	15.27	19.75	0.00
		10/15/97	NP	0.00	16.28	18.74	0.00
						SPH Recovered to Date:	**0.00**
U-3	35.25	03/28/95	NA	0.00	12.72	22.53	NA
		04/24/95	NA	0.00	12.93	22.32	NA
		05/22/95	NA	0.00	13.55	21.70	NA
		06/26/95	13.89	0.01	13.90	21.36	NA
		07/24/95	NA	0.00	14.02	21.23	NA
		08/28/95	NA	0.00	19.65	15.60	NA
		09/25/95	NA	0.00	16.35	18.90	NA
		10/23/95	14.20	0.01	14.21	21.05	NA
		11/27/95	14.20	0.00	14.20	21.05	NA
		12/28/95	12.71	0.00	12.71	22.54	NA
		01/22/96	16.56	0.02	16.58	18.69	NA
		02/26/96	14.51	0.36	14.15	21.41	NA
		04/22/96	NA	0.00	15.15	20.10	NA
		05/28/96	NA	0.00	12.27	22.98	NA
		06/24/96	NA	0.00	12.69	22.56	NA
		07/22/96	NA	0.00	13.02	22.23	NA
		08/23/96	NA	0.00	13.15	22.10	NA
		09/23/96	NA	0.00	15.02	20.23	NA
		10/28/96	NA	0.00	17.90	17.35	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
U-3	35.25	01/31/97	NP	0.00	11.86	23.39	0.00
		04/21/97	NP	0.00	12.82	22.43	0.00
		07/28/97	NP	0.00	13.83	21.42	0.00
		10/15/97	NP	0.00	14.23	21.02	0.00
						SPH Recovered to Date:	**0.00**
U-4	34.46	03/28/95	17.42	3.98	21.40	16.44	NA
		04/24/95	15.60	6.17	21.77	17.93	NA
		05/22/95	15.75	6.18	21.93	17.78	NA
		06/26/95	15.96	6.16	22.12	17.58	NA
		07/24/95	16.33	4.17	20.50	17.50	NA
		08/28/95	17.23	3.72	20.95	16.67	5.20
		09/25/95	18.60	0.25	18.85	15.82	NA
		10/23/95	17.35	3.90	21.25	16.52	NA
		11/27/95	16.40	2.40	18.80	17.70	1.22
		01/22/96	17.60	0.04	17.64	16.85	2.79
		02/26/96	12.85	0.30	13.15	21.57	0.98
		04/22/96	11.50	0.23	11.73	22.93	0.31
		08/23/96	16.31	0.16	16.47	18.13	0.25
		09/23/96	16.61	0.09	16.70	17.84	NA
		10/28/96	17.56	0.19	17.75	16.87	NA
		01/31/97	14.80	2.25	17.05	19.32	6.50
		04/21/97	15.26	0.09	15.35	19.19	NA
		07/25/97	15.85	0.01	15.86	18.61	0.10
		10/15/97	16.50	0.01	16.51	17.96	0.75
						SPH Recovered to Date:	**18.10**
U-5	33.37	03/28/95	NA	0.00	18.21	15.16	NA
		04/24/95	NA	0.00	18.47	14.90	NA
		05/22/95	NA	0.00	18.33	15.04	NA
		06/26/95	NA	0.00	8.42	24.95	NA
		07/24/95	18.90	0.01	18.91	14.47	NA
		08/28/95	19.13	0.12	19.25	14.22	NA
		09/25/95	19.27	0.25	19.52	14.06	NA
		10/23/95	19.32	0.17	19.49	14.02	NA
		11/27/95	18.50	0.10	18.60	14.85	0.03
	34.20	12/28/95	18.43	0.05	18.48	15.76	0.07
		01/22/96	15.57	0.08	15.65	18.62	0.02
		02/26/96	13.55	0.15	13.70	20.63	NA
		04/22/96	17.82	0.08	17.90	16.37	0.02
		05/28/96	16.52	0.01	16.53	17.68	NA
		06/24/96	18.10	0.01	18.11	16.10	NA
		07/22/96	19.39	0.03	19.42	14.81	NA
		09/23/96	20.04	0.04	20.08	14.15	NA
		10/28/96	18.15	0.07	18.22	16.04	NA
		01/31/97	NP	0.00	18.01	16.19	0.00
		04/21/97	NP	0.00	18.61	15.59	0.00
		07/28/97	NP	0.00	19.38	14.82	0.00
		10/15/97	NP	0.00	19.87	14.33	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
Tosco (continued)							
						SPH Recovered to Date:	**0.14**
U-5A	33.77	03/28/95	4.73	1.47	6.20	28.82	NA
		04/24/95	6.02	0.39	6.41	27.69	NA
		05/22/95	6.52	0.00	NM	0.00	NA
		06/26/95	6.97	0.00	NM	0.00	0.50
		07/24/95	9.86	0.37	10.23	23.85	NA
		08/28/95	9.50	0.45	9.95	24.20	0.01
		09/25/95	NA	0.00	15.61	18.16	NA
		10/23/95	15.30	0.20	15.50	18.44	NA
		11/27/95	6.34	0.08	6.42	27.42	0.36
		12/28/95	5.97	0.42	6.39	27.74	0.25
		01/22/96	6.43	0.07	6.50	27.33	0.07
		02/26/96	8.50	0.03	8.53	25.27	0.08
		04/22/96	9.35	0.05	9.40	24.41	0.05
		06/24/96	5.79	0.32	6.11	27.93	0.15
		07/22/96	6.47	0.07	6.54	27.29	0.05
		08/23/96	7.21	0.89	8.10	26.43	0.32
		09/23/96	8.58	1.31	9.89	24.99	NA
		10/28/96	20.04	0.03	20.07	13.73	NA
		01/31/97	4.59	0.27	4.86	29.14	10.00
		04/21/97	5.33	0.04	5.37	28.43	NA
		07/25/97	6.89	0.06	6.95	26.87	1.10
		10/15/97	7.88	0.01	7.89	25.89	0.50
						SPH Recovered to Date:	**13.44**
						Tosco total SPH Recovered to Date:	**128.33**
						Complete total SPH Recovered to Date:	**368.80**

Notes:

SPH = Separate-phase hydrocarbon
NP = No product
NA = Not available
NM = Not measured
SPH recovered to 10/28/96 has been accumulative process on a weekly to monthly basis and added together to get the sum.
* = Groundwater elevation (GWE) is corrected for the presence of SPH using:
GWE = toc - (DTW + (SPH thickness x Specific gravity of SPH)) Specific gravity used is 0.85
** = SPH recovered represents total recovered for presented interval.

Table 6
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron			
B-7	01/01/95	ND	ND	ND	ND
	04/01/95	ND	0.73	ND	ND
	07/01/95	ND	0.57	ND	ND
	10/01/95	ND	ND	ND	ND
	01/01/96	ND	ND	0.5	NS
	04/01/96	ND	ND	ND	ND
	07/22/96	5.4	0.64	ND	ND
	10/28/96	ND	ND	ND	ND
	01/29/97	ND	ND	ND	ND
	04/28/97	ND	ND	ND	ND
	10/22/97	ND	ND	ND	ND
	01/21/98	ND	ND	ND	ND
B-9	01/01/95	ND	0.9	ND	1.5
	04/01/95	ND	0.88	ND	1.3
	07/01/95	ND	1	ND	0.52
	10/01/95	ND	1	ND	2.5
	01/22/96	0.63	0.66	ND	1.8
	04/22/96	1	1.3	ND	2.7
	07/22/96	1.8	0.86	ND	0.93
	10/28/96	ND	ND	ND	ND
	01/29/97	ND	ND	ND	ND
	04/28/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	2.22
	10/22/97	ND	ND	ND	ND
Duplicate	10/22/97	ND	ND	ND	ND
	01/21/98	10.2	ND	ND	ND

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron (continued)			
B-10	01/01/95	8.6	2.9	0.7	5.2
	04/01/95	11	5.7	14	17
	07/01/95	8.3	3.6	4.3	11
	10/01/95	22	4.3	1.8	13
	01/22/96	8.6	2.1	ND	5.4
	04/22/96	33	5.6	1.3	15
	07/22/96	30	4.5	6.6	15
	10/28/96	120	4.5	4	11
	01/29/97	172	6.16	1.27	10.5
	04/28/97	60.8	4.72	2.82	6.54
	07/31/97	52.0	ND	ND	ND
	10/21/97	92.5	ND	ND	ND
	01/21/98	160	ND	ND	ND
B-11	01/01/95	12	2.8	52	9.9
	04/01/95	140	8.2	2.6	6.3
	07/01/95	140	9.3	2.3	9.5
	10/01/95	320	7.8	ND	8.1
	01/22/96	260	4	140	24
Duplicate	01/22/96	ND	ND	ND	ND
	04/01/96	340	9.8	38	14
	07/22/96	250	7.3	2.4	13
	10/28/96	290	12	4.3	9.5
	01/29/97	243	ND	411	79.0
	04/28/97	243	5.90	24.3	11.0
	07/31/97	339	150	141	448
	10/21/97	175	15.5	15.5	34.3
	01/21/98	183	5.20	3.00	9.85
B-13	01/22/96	400	7.7	18	14

COPPOR00005404

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron (continued)			
B-14	01/01/95	190	15	78	46
	04/01/95	140	7.6	170	83
	07/01/95	190	21	91	55
	10/01/95	240	20	45	22
	01/22/96	230	9.5	51	27
	04/22/96	260	14	93	52
Duplicate	04/22/96	270	14	90	50
	07/22/96	230	15	100	67
Duplicate	07/22/96	220	18	110	74
	10/28/96	140	8.2	29	12
Duplicate	10/28/96	120	8.3	24	11
	01/29/97	1,340	35.5	498	94.5
Duplicate	01/29/97	2,180	50.0	835	198
	04/28/97	1,310	57.5	440	ND
	07/31/97	407	37.2	118	67.0
Duplicate	07/31/97	332	32.0	83.5	51.0
	10/22/97	1,650	91.4	520	109
Duplicate	10/22/97	1,820	103	576	137
B-15	10/22/97	83.0	3.54	ND	5.96
B-24	10/23/97	658	ND	ND	ND
Duplicate	11/04/97	420	ND	ND	ND
B-26	10/21/97	244	16.4	619	62.4
B-28	01/01/95	10	0.7	17	2
	04/01/95	19	0.86	48	7.8
	07/01/95	1.7	0.82	32	5.6
	10/01/95	3	ND	0.93	ND
	01/22/96	4.6	ND	19	6.6
	04/01/96	ND	ND	ND	ND
	07/22/96	14	0.74	64	13
	10/28/96	2.3	ND	2.5	ND
	01/29/97	26.4	1.50	160	62.5
	07/31/97	2.19	ND	12.5	2.39
	10/23/97	25.4	1.04	11.4	ND
	01/21/98	1.25	ND	ND	ND

COPPOR00005405

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron (continued)			
B-29	10/22/97	ND	ND	ND	ND
B-30	01/01/95	51	7.6	3.1	17
	04/01/95	28	3.1	1.6	9.9
	07/01/95	12	2	0.71	4.5
	10/01/95	43	4.6	0.94	11
	01/22/96	50	7.1	2.4	14
	04/22/96	25	7.4	3.2	15
	07/22/96	38	4.2	1.9	9
	10/28/96	19	4.1	0.95	9.1
	01/29/97	97.5	12.4	8.45	15.4
	04/28/97	124	14.9	7.86	18.1
Duplicate	04/28/97	133	15.5	8.42	19.0
	07/31/97	30.0	4.00	1.22	7.38
	10/23/97	96.8	8.51	4.09	19.7
B-31	10/23/97	8.10	3.68	7.15	21.3
B-32	10/22/97	ND	ND	ND	ND
CR-3	01/22/96	ND	ND	ND	ND
CR-8	01/01/95	ND	ND	3.9	5.8
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	0.54
	01/22/96	1.2	ND	0.59	1.8
	04/22/96	1.7	0.98	1.1	2.2
	07/22/96	ND	ND	0.58	1.6
	10/28/96	ND	ND	ND	2.4
	01/29/97	ND	ND	8.94	19.1
	04/25/97	2.48	3.35	4.44	7.01
	07/31/97	ND	ND	ND	ND
	01/21/98	ND	ND	ND	ND
CR-9	07/31/97	ND	ND	ND	ND
	10/23/97	ND	ND	ND	ND

COPPOR00005406

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron (continued)			
CR-11	01/01/95	94	3.9	2.4	3.4
	04/01/95	110	3.6	5.4	17
	07/01/95	94	4.4	3	9.1
	10/01/95	130	8.5	4.2	8.8
	01/22/96	78	2.3	1.9	4.8
	04/22/96	91	5.2	4	3.8
	07/22/96	92	5.3	12	23
	10/28/96	NS/F	NS/F	NS/F	NS/F
	01/29/97	50.4	ND	13.3	47.9
	04/25/97	32.6	2.01	0.711	ND
	07/31/97	35.2	ND	ND	ND
	10/23/97	84.0	3.14	2.32	3.68
	01/21/98	97.4	2.00	2.98	4.30

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX			
MW-1	11/07/90	<5.0	<5.0	6.87	<5.0
	10/28/97	ND	ND	ND	ND
MW-3	10/28/97	2.68	9.77	ND	15.6
MW-4	10/28/97	ND	ND	ND	ND
MW-5	04/30/91	2.6	<0.5	<0.5	<0.5
MW-6	11/07/90	68	<5.0	<10	<20
	10/28/97	5.63	3.49	ND	1.23
MW-7	11/07/90	25	270	408	1,500
	01/01/95	ND	ND	18	30
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/01/96	NS	NS	NS	NS
	07/01/96	NS	NS	NS	NS
	10/28/96	NS	NS	NS	NS
MW-8	11/07/90	38.3	NS/F	-	5.2
	01/01/95	ND	ND	ND	ND
	04/01/95	0.96	ND	ND	ND
	07/01/95	ND	ND	ND	1.1
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	970	64	6.3	20
	07/22/96	1,100	440	39	140
	10/28/96	1,300	2,000	190	900
	01/30/97	134	3.48	37.8	107
	04/24/97	124	3.76	53.6	89.8
	07/30/97	155	6.24	93.8	135
	10/30/97	358	26.6	299	845
MW-9	10/27/97	ND	ND	ND	ND

COPPOR00005408

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-10	04/30/91	2.6	<0.5	<0.5	<0.5
	01/01/95	1.7	0.7	ND	1
	04/01/95	ND	ND	ND	1.3
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	1.3
	01/22/96	2.3	0.68	ND	1.1
	04/22/96	6.5	0.88	ND	0.62
	07/22/96	ND	ND	ND	ND
	10/28/96	2.4	ND	ND	ND
	01/30/97	5.05	0.647	ND	1.03
	04/25/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
	10/27/97	8.35	ND	ND	ND
Duplicate	10/27/97	5.42	ND	ND	ND
MW-11	11/07/90	12,000	15,000	1,600	10,000
	01/01/95	8,900	4,500	2,500	11,000
	04/01/95	7,400	4,900	2,500	12,000
	07/01/95	5,400	2,400	2,600	8,000
	10/01/95	7,100	2,800	2,400	8,700
	01/22/96	7,400	4,500	2,100	10,000
	04/22/96	7,000	3,800	2,500	11,000
	07/22/96	4,900	2,000	2,400	8,100
	10/28/96	5,100	2,200	2,200	8,100
	04/24/97	6,860	3,360	2,840	11,300
	07/30/97	6,390	2,630	2,970	10,800
MW-12	10/28/97	ND	ND	ND	ND
MW-13	11/07/90	<5.0	NS/F	<5.0	<5.0
	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
	10/27/97	ND	ND	ND	ND
Duplicate	10/27/97	ND	ND	ND	ND

COPPOR00005409

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-15	04/24/97	2.40	ND	ND	ND
	07/30/97	9.78	ND	ND	ND
	10/30/97	1.15	ND	1.66	6.32
	01/26/98	3.84	ND	ND	ND
MW-17	10/30/97	ND	ND	ND	ND
MW-18	04/30/91	<0.5	3.6	2.2	4.4
	10/30/97	ND	ND	ND	5.40
MW-19	11/07/90	11.3	8.2	23.4	32.9
MW-20	10/28/96	ND	ND	ND	ND
	10/28/97	ND	ND	ND	ND
MW-21	01/30/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
Duplicate	07/30/97	ND	ND	ND	ND
	10/29/97	ND	ND	ND	ND
Duplicate	11/04/97	ND	ND	ND	ND
MW-22	11/07/90	2,600	15,400	5,000	22,000
	01/01/95	2,400	8,100	4,700	16,000
	04/01/95	2,200	7,100	4,500	15,000
	07/01/95	2,000	5,800	4,500	15,000
	10/01/95	2,300	6,300	5,200	19,000
	01/22/96	1,800	5,300	4,100	15,000
	04/22/96	1,900	4,600	4,000	12,000
	07/22/96	2,200	4,300	4,700	15,000
	10/28/96	2,000	3,500	4,200	14,000
Duplicate	10/28/96	1,800	3,400	4,600	15,000
	01/30/97	2,130	3,650	4,680	14,400
	04/24/97	2,400	4,060	4,810	14,000
	07/30/97	1,940	1,950	4,320	13,400
	10/29/97	2,090	2,820	4,880	14,900

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-23	05/01/91	140	22	180	130
	01/01/95	72	20	210	180
	04/01/95	150	38	240	140
	07/01/95	99	20	240	140
	10/01/95	120	18	230	120
	01/22/96	32	ND	180	156
	04/22/96	35	16	140	140
Duplicate	04/22/96	ND	ND	ND	ND
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	31	7.3	140	110
	07/30/97	22.3	ND	48.7	57.0
	01/26/98	4.25	31.7	32.4	64.9
MW-24	11/07/90	<20	NS/F	<10	13
MW-26	05/01/91	<10	15	50	61
	01/01/95	1.7	ND	24	33
	04/01/95	8.7	7.3	13	19
	07/01/95	6.4	10	9.6	12
	10/01/95	ND	0.85	1.6	4.9
	01/19/96	ND	ND	ND	ND
	01/22/96	ND	4.2	16	20
Duplicate	01/22/96	ND	ND	ND	ND
	04/22/96	NS	ND	NS	NS
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
	01/30/97	1.73	2.00	9.18	8.66
	04/24/97	2.80	2.48	7.58	7.32
	01/26/98	3.60	2.89	7.13	9.19
MW-27	05/01/91	83	0.6	<0.5	0.7
	10/29/97	959	ND	ND	ND

COPPOR00005411

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-28	05/01/91	9.5	26	74	200
	01/01/95	0.9	0.6	8.5	20
	04/01/95	ND	ND	20	15
	07/01/95	7.6	2.7	2.6	7.9
	10/01/95	2.8	2.6	7.2	20
	01/19/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	4.2
	07/22/96	2	0.95	0.73	1.8
	10/28/96	1.2	0.66	1.8	3.2
	01/30/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
	01/26/98	ND	ND	ND	ND
MW-29	10/29/97	ND	ND	ND	ND
MW-30	10/29/97	ND	ND	ND	5.31
MW-31	05/01/91	1.2	<0.5	1.2	1.5
	01/01/95	1.3	1.6	1.2	3.8
	04/01/95	9.3	4.7	0.99	3.1
	07/01/95	2.8	1.3	0.64	1.4
	10/01/95	ND	ND	ND	ND
	01/19/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	2.5	1.1	0.54	1.9
	10/28/96	1.5	ND	ND	ND
	01/30/97	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
	10/29/97	ND	ND	ND	ND
	01/26/98	ND	ND	ND	ND

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-32	11/07/90	<5.0	<5.0	<5.0	<20
	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	0.56
	10/28/96	ND	ND	ND	ND
Duplicate	10/28/96	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
	10/29/97	ND	ND	ND	ND
	01/26/98	ND	ND	ND	ND
MW-33	01/01/95	ND	ND	ND	0.5
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/01/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND
Duplicate	01/30/97	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND
Duplicate	04/24/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND
	10/31/97	ND	ND	ND	ND
Duplicate	11/04/97	ND	ND	ND	ND
MW-34	10/31/97	ND	ND	ND	ND

COPPOR00005413

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-36	07/01/95	NS	NS	NS	NS
	10/01/95	NS	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND
	10/31/97	ND	ND	ND	ND
MW-37	01/01/95	ND	ND	2.2	7.1
	04/01/95	ND	ND	ND	ND
	07/01/95	140	ND	ND	ND
	10/01/95	14	ND	ND	ND
	01/22/96	140	1	ND	1.8
	04/22/96	92	ND	ND	ND
	07/22/96	450	6.4	ND	4.8
	10/28/96	27	ND	ND	ND
	01/30/97	697	56.7	12.6	49.6
	04/24/97	1,680	16.2	28.4	68.6
	07/31/97	1,350	ND	29.2	42.6
	10/31/97	767	ND	ND	29.7
MW-39	10/28/96	0.96	ND	1.8	2.4
MW-40	04/24/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND

COPPOR00005414

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco			
B-2	10/28/96	18	2.9	ND	3.5
	10/27/97	5.94	3.91	ND	1.41
B-3	10/28/96	ND	ND	ND	ND
B-4	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS	NS	NS	NS
	10/28/96	NS	NS	NS	NS
	04/25/97	228	8.02	7.36	ND
B-6	01/22/96	240	17	300	120
	07/22/96	270	25	380	120
	10/28/96	180	31	360	130
	10/27/97	273	ND	990	237
	01/27/98	297	18.7	501	113
B-16	01/22/96	590	9.4	11	11
	07/22/96	210	8.7	7.9	9.9
	10/28/96	850	22	16	16
	10/27/97	58.4	ND	ND	ND

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
B-17	01/01/95	200	17	4.5	26
	04/01/95	590	17	7.7	16
	07/01/95	670	22	11	20
	10/01/95	830	36	16	43
	01/22/96	550	9.8	11	12
	04/22/96	580	19	12	32
	07/22/96	520	22	12	20
	10/28/96	330	15	10	ND
	01/31/97	280	12.1	9.69	10.1
	04/25/97	698	21.7	17.7	ND
	08/01/97	768	ND	ND	ND
	10/24/97	712	10.0	21.6	13.6
Duplicate	11/04/97	624	17.5	17.7	ND
	01/27/98	435	9.42	ND	ND
Duplicate	01/27/98	413	9.27	ND	ND
B-18	01/01/95	ND	ND	ND	0.6
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
	10/24/97	ND	ND	ND	ND

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
B-22	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	15	1.6	2.3	5.3
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	14	0.93	0.52	0.56
	10/28/96	NS	NS	NS	NS
	04/25/97	20.1	1.62	0.806	ND
B-25	01/22/96	2.4	ND	3.6	1
	10/28/96	ND	ND	ND	ND
B-27	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F
B-35	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	11	7.2	1.2	8.3
	10/28/96	NS	NS	NS	NS
	01/31/97	3.35	3.81	ND	2.17
Duplicate	01/31/97	3.87	4.72	ND	2.73
	04/25/97	6.50	8.58	0.790	6.98
	08/01/97	8.25	5.19	ND	ND
	10/24/97	13.5	7.60	20.8	32.1

COPPOR00005417

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
B-36	01/01/95	NS	NS	NS	NS
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	480	8.9	8.2	9.6
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
	10/24/97	ND	ND	ND	ND
	01/27/98	ND	ND	ND	ND
B-37	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	31	0.54	0.72	1.3
	07/22/96	4.5	ND	ND	0.52
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
	10/24/97	ND	ND	ND	ND
Duplicate	10/24/97	ND	ND	ND	ND
B-40	01/22/96	2.9	1.9	16	7.5
	10/28/96	0.93	1.2	1.3	1.2
	10/24/97	ND	ND	ND	ND
B-41	10/24/97	90.7	3.29	9.80	15.6

COPPOR00005418

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
RES-N	01/01/95	4	0.6	3.4	4.5
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F
	11/10/97	29.1	2.18	2.06	2.59
U-2	01/01/95	3.8	ND	4.9	2.9
	04/01/95	0.66	ND	1.2	1.2
	07/01/95	2.6	ND	0.62	4
	10/01/95	6.8	ND	ND	ND
	01/22/96	1.3	ND	2.9	1.2
	04/22/96	ND	ND	ND	ND
	07/22/96	7.5	1.9	10	4.2
	10/28/96	ND	ND	ND	ND
	01/31/97	8.91	ND	42.5	ND
	04/25/97	18.4	1.27	25.4	4.64
Duplicate	04/25/97	20.8	1.36	29.4	3.70
	08/01/97	6.66	ND	3.18	ND
	10/23/97	ND	ND	ND	ND
	01/27/98	4.55	ND	2.80	ND

COPPOR00005419

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
U-3	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	220	7.9	49	26
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	4.77	0.523	ND	ND
	08/01/97	14.9	14.8	ND	5.42
Duplicate	08/01/97	14.8	15.0	ND	5.80
	10/24/97	ND	ND	ND	ND
	01/27/98	10.8	ND	ND	ND
U-4	01/01/95	ND	ND	ND	0.6
	04/01/95	ND	ND	ND	ND
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
U-5	01/01/95	15	2	0.5	3
	04/01/95	1.9	1.4	ND	1.7
	07/01/95	2.7	1.2	ND	1.8
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
	10/24/97	ND	ND	0.698	ND

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
U-5A	01/01/95	20	6.5	3.7	7.2
	04/01/95	28	7.8	5	20
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS

Notes:

ppb = Parts per billion
ND = Not detected
NS = Not sampled
NS/F = Not sampled floating product present
NA = Not analyzed, not applicable
BTEX by EPA Method 8020

Table 7
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron																	
B-7	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	1.80	ND	0.364	ND	ND	ND	ND	ND	ND	ND	ND	6.38	ND	ND	2.11	ND
	04/28/97	6.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.7	ND	ND	30.2	ND
	10/22/97	2.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.58	ND	ND	2.18	0.576
B-9	04/22/96	ND	ND	ND	0.17	0.28	0.43	0.38	0.18	0.34	0.19	0.64	ND	0.33	ND	ND	0.58
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	0.196	0.424	0.553	0.505	0.312	0.569	ND	0.667	ND	0.529	ND	ND	0.813
	01/29/97	1.38	ND	0.325	0.208	0.295	0.380	0.413	0.364	0.425	ND	0.629	4.72	0.349	ND	1.13	0.587
	04/28/97	6.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.4	ND	ND	18.6	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.7	ND	ND	ND	ND
	10/22/97	3.90	ND	0.122	ND	ND	ND	ND	ND	ND	ND	ND	19.3	ND	ND	2.62	ND
Duplicate	10/22/97	6.16	ND	0.508	ND	ND	ND	ND	ND	ND	ND	ND	28.4	ND	ND	15.0	1.40
B-10	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	1.35	ND	0.647	0.258	0.334	0.481	0.283	0.409	0.490	ND	0.951	3.71	0.275	ND	4.45	0.924
	04/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.0	ND	ND	20.6	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.2	ND	ND	ND	ND
	10/21/97	1.22	ND	0.167	ND	ND	ND	ND	ND	ND	ND	0.118	3.65	ND	ND	4.19	0.183
B-11	04/22/96	ND	ND	ND	ND	ND	ND	0.1	ND	ND	ND	2.4	ND	ND	ND	ND	4.1
	07/01/96	ND	ND	ND	0.22	0.16	0.17	0.24	ND	0.22	ND	2.4	ND	0.2	ND	ND	3
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	0.758	ND	0.175	0.161	0.240	0.321	0.317	0.267	0.297	ND	0.398	1.24	0.245	29.1	1.26	0.457
	04/28/97	0.686	ND	0.105	ND	ND	ND	ND	ND	ND	ND	ND	1.12	ND	1.64	0.852	0.134
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.93	ND	ND	ND	0.196
	10/21/97	1.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.83	ND	ND	1.56	ND

COPPOR0005422

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron (continued)																	
B-14	04/22/96	ND	ND	ND	0.21	ND	ND	ND	ND	0.64	ND	2.4	ND	ND	7.6	ND	3.3
Duplicate	04/22/96	ND	ND	ND	0.12	ND	ND	0.13	ND	0.45	ND	1.9	ND	ND	6.3	ND	2.5
	07/01/96	ND	ND	ND	0.13	0.12	ND	0.25	ND	0.15	ND	2.2	ND	ND	12	ND	1.9
Duplicate	07/01/96	ND	ND	ND	ND	0.13	ND	ND	ND	0.12	ND	2	ND	0.12	ND	ND	1.6
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.413	ND	ND	ND	ND	ND
Duplicate	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.472	ND	ND	7.35	ND	ND
	01/29/97	1.19	ND	0.254	0.225	0.229	0.272	0.262	0.242	0.314	ND	0.580	2.54	0.198	68.7	2.39	0.737
Duplicate	01/29/97	0.788	ND	0.377	0.238	0.205	0.205	0.128	0.187	0.307	ND	0.868	2.34	0.121	65.8	3.29	0.941
	04/28/97	0.865	ND	0.198	ND	ND	ND	ND	ND	ND	ND	0.542	1.47	ND	23.7	1.42	0.660
	07/31/97	ND	ND	ND	0.133	ND	ND	ND	ND	0.127	ND	0.660	2.00	ND	5.96	ND	0.802
Duplicate	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.622	1.82	ND	ND	ND	0.666
	10/22/97	1.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.398	3.48	ND	29.6	3.02	0.741
Duplicate	10/22/97	1.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.454	3.63	ND	36.4	2.76	0.750
B-15	10/22/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	172	ND	ND	264	14.5
B-24	10/23/97	ND	ND	ND	1.27	0.203	0.336	0.0640	ND	1.04	ND	ND	32.1	0.0599	ND	39.1	14.6
Duplicate	11/04/97	3.41	ND	1.06	0.686	0.110	0.0929	ND	0.0852	0.576	ND	1.91	9.71	ND	ND	15.1	2.39
B-26	10/21/97	2.74	ND	ND	1.36	1.02	2.98	1.03	ND	2.29	ND	3.49	9.30	ND	242	13.1	5.20
B-28	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.9	ND	ND
	01/29/97	ND	ND	ND	ND	0.104	0.110	0.107	ND	0.109	ND	0.127	0.166	ND	30.4	0.281	0.163
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.32	ND	0.102
B-29	10/22/97	0.0798	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.129	ND	ND	0.0631	0.0650

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron (continued)																	
B-30	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	0.172	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.219	ND	0.199	0.440	ND
	04/28/97	0.199	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.190	ND	0.345	0.210	0.143
Duplicate	04/28/97	0.246	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.124	0.262	ND	0.399	0.258	0.146
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.183	ND	ND	ND	ND	0.278
	10/23/97	0.0940	ND	ND	0.0513	0.0628	0.0855	0.0562	ND	0.0571	ND	0.0901	0.0990	0.0531	ND	0.158	0.230
B-31	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.7	ND	18.3	28.7	ND
B-32	10/22/97	0.108	ND	ND	ND	ND	ND	ND	ND	0.142	ND	0.609	0.901	ND	ND	ND	0.574
CR-8	04/22/96	ND	ND	ND	1.1	3	2.1	3.8	1	1.4	2.7	1.7	ND	2.9	ND	ND	2.5
	07/01/96	ND	ND	ND	0.61	1.2	1	1.8	0.38	0.77	ND	0.98	ND	1.2	ND	ND	1.4
	10/28/96	ND	ND	ND	0.398	1.37	0.905	1.73	0.515	0.655	ND	0.938	ND	1.3	ND	ND	1.33
	01/29/97	ND	ND	ND	0.359	0.791	0.602	1.24	0.545	0.514	ND	0.526	ND	0.760	ND	ND	0.950
	04/25/97	ND	ND	0.101	0.502	1.31	0.790	1.36	0.708	0.687	ND	0.809	ND	0.943	ND	0.129	1.24
	07/31/97	ND	ND	ND	0.268	0.640	0.472	0.794	0.216	0.348	ND	0.500	ND	0.510	ND	ND	0.798
CR-9	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CR-11	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/29/97	0.941	ND	0.185	ND	ND	ND	ND	ND	ND	ND	ND	2.06	ND	ND	1.37	0.109
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.183	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.30	ND	ND	ND	ND
	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.811	ND	ND	ND	ND

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
							GATX										
MW-1	10/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-3	10/28/97	ND	ND	0.161	ND	ND	ND	ND	ND	ND	ND	0.232	ND	ND	ND	0.848	0.239
MW-4	10/28/97	1.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.666	7.02	ND	ND	5.01	0.811
MW-6	10/28/97	2.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.92	ND	ND	8.69	0.598
MW-7	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
MW-8	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.11	ND	ND
	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.52	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/30/97	0.276	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.0	0.154	0.0973
MW-9	10/27/97	ND	ND	ND	0.0711	0.0967	0.0777	0.0711	0.0678	0.0853	ND	0.0919	ND	0.0502	ND	0.0706	0.126
MW-10	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/27/97	0.0838	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	10/27/97	0.0767	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-11	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	540	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	280	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230	ND	ND
	04/24/97	0.125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.171	ND	475	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	294	ND	ND
MW-12	10/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-13	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/27/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	10/27/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/30/97	0.0521	ND	ND	0.130	0.128	0.146	0.103	0.135	0.169	ND	0.294	ND	0.0948	0.0640	0.207	0.331
MW-17	10/30/97	0.124	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0586	0.279	ND	ND	ND	0.0833
MW-18	10/30/97	2.82	53.3	0.146	ND	ND	ND	ND	ND	0.0533	ND	0.154	1.98	ND	ND	0.790	0.201
MW-20	10/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-21	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/29/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	11/04/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-22	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	370	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	240	ND	ND
Duplicate	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	260	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	360	ND	ND
	01/30/97	0.298	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.456	ND	352	0.258	ND
	04/24/97	0.182	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.366	ND	311	0.267	ND
	07/30/97	14.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.67	ND	220	ND	ND
	10/29/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.630	ND	397	0.556	ND

COPPOR0005426

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-23	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	ND	ND
Duplicate	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/30/97	10.4	ND	ND	0.106	ND	ND	ND	ND	0.203	ND	ND	0.908	ND	ND	ND	ND
MW-24	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/30/97	1.77	ND	0.175	ND	ND	ND	ND	ND	ND	ND	0.299	1.68	ND	8.77	1.36	0.183
	04/24/97	1.57	ND	0.153	ND	ND	ND	ND	ND	ND	ND	0.322	1.46	ND	3.96	0.876	0.149
MW-27	10/29/97	ND	ND	0.561	ND	ND	ND	ND	ND	ND	ND	0.704	ND	ND	ND	0.755	0.862
MW-28	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	0.756	ND	0.502	0.220	ND	ND	ND	ND	0.517	ND	0.344	2.10	ND	ND	1.74	0.850
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	ND	ND	ND	ND
MW-29	10/29/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-30	10/29/97	0.116	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.318	ND	ND	ND	ND
MW-31	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	0.651	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.65	ND	ND	0.356	ND
	04/24/97	0.539	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	ND	ND	0.532	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.509	ND	ND	ND	ND
	10/29/97	1.24	ND	ND	ND	ND	ND	ND	ND	0.0777	ND	0.575	5.12	ND	ND	4.40	0.375

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-32	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/29/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-33	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	11/04/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-34	10/31/97	0.0607	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-36	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.105	ND
	04/25/97	0.199	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/97	0.357	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0806
MW-37	04/22/96	ND	ND	ND	0.77	0.91	0.85	1	0.44	2.6	ND	ND	ND	0.77	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	0.751	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.102	1.21	ND	ND	0.156	0.166
	04/24/97	ND	ND	0.386	0.552	0.574	0.364	0.361	0.416	0.567	ND	1.31	ND	0.330	ND	2.41	1.65
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.12	ND	ND	ND	ND
	10/31/97	1.01	ND	ND	0.0514	ND	ND	ND	ND	ND	ND	0.0976	1.40	ND	ND	0.218	0.175

COPPOR0005428

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-40	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR0005429

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco																	
B-2	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.7	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/27/97	4.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.4	ND	ND	24.3	ND
B-3	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	120	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.8	ND	ND
B-4	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/25/97	24.2	ND	20.1	ND	ND	ND	ND	ND	ND	ND	13.3	63.1	ND	ND	141	18.9
B-6	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.9	ND	ND
	10/27/97	ND	ND	0.0887	0.0629	ND	ND	ND	ND	0.0675	ND	0.181	0.683	ND	90.0	0.409	0.256
B-16	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9	ND	ND	6.2	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.21	ND	ND	ND	ND	ND
	10/27/97	1.86	ND	ND	0.0551	ND	ND	ND	ND	0.0691	ND	ND	5.97	ND	ND	6.94	0.332

COPPOR0000543O

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
B-17	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	22	16	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	0.298	ND	ND	ND	ND	6.57	ND	ND
	01/31/97	10.8	ND	4.46	ND	0.140	0.142	ND	ND	ND	ND	3.04	38.0	ND	ND	66.6	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.0	ND	ND	20.9	ND
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.6	ND	ND	ND	ND
	10/24/97	8.63	ND	3.63	0.464	ND	ND	ND	ND	0.631	ND	4.40	37.1	ND	ND	56.3	5.46
Duplicate	11/04/97	4.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.4	ND	ND	24.5	2.25
B-18	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.68
	01/31/97	0.559	ND	0.290	ND	ND	ND	ND	ND	ND	ND	0.189	1.36	ND	ND	1.86	0.215
	04/25/97	0.308	ND	0.104	ND	ND	ND	ND	ND	ND	ND	ND	0.496	ND	ND	0.390	0.123
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	ND	ND	ND	0.119
	10/24/97	0.468	ND	ND	ND	0.0700	0.0936	0.0854	ND	0.0613	ND	ND	1.10	0.0676	ND	1.21	0.254
B-22	04/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.67	ND	ND	7.75	ND
B-25	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-27	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F

COPPOR0005431

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
B-35	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	ND	ND	ND	18	1.9	2.1	2.2	3.8	14	ND	ND	44	ND	25	120	ND
	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/31/97	13.6	ND	9.47	4.38	0.978	1.47	0.106	1.17	4.27	ND	27.4	42.7	0.144	ND	77.3	12.8
Duplicate	01/31/97	19.1	ND	14.4	5.94	1.63	2.68	0.183	2.22	5.60	ND	41.7	56.6	0.237	ND	110	16.9
	04/25/97	5.33	ND	ND	0.571	0.118	0.150	ND	0.134	0.521	ND	ND	14.4	ND	ND	18.0	ND
	08/01/97	ND	ND	ND	1.58	ND	ND	ND	ND	ND	ND	9.62	20.6	ND	ND	ND	5.04
	10/24/97	91.4	ND	71.2	29.6	ND	ND	ND	ND	ND	ND	178	238	ND	ND	479	123
B-36	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	7.5	ND	ND	ND	ND	5.5	ND	64	ND	ND	ND	ND	76
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.221	ND	ND	0.108	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-37	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	0.224	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	0.206	ND	ND	ND	ND	ND	0.105	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/97	0.189	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	10/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0743
B-40	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43.1	32.8
	10/24/97	5.39	ND	0.688	ND	ND	ND	ND	ND	ND	ND	ND	13.6	ND	ND	15.5	1.29
B-41	10/24/97	9.63	ND	1.17	ND	ND	ND	ND	ND	ND	ND	0.678	23.0	ND	ND	21.5	2.01

COPPOR0005432

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
RES-N	11/10/97	2.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.21	ND	ND	5.47	0.446
U-2	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.3	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	0.516	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.278	0.541	ND	39.8	0.111	0.250
	04/25/97	0.364	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.179	0.873	ND	37.5	0.339	0.235
Duplicate	04/25/97	0.241	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.142	0.562	ND	ND	ND	0.153
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/23/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0739
U-3	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	0.66	0.74	0.98	0.95	0.52	0.87	ND	ND	ND	0.7	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	0.220	ND	0.155	0.942	1.24	1.41	1.21	1.23	1.20	0.415	1.84	0.263	1.10	ND	0.881	0.923
	04/25/97	ND	ND	ND	ND	0.109	0.104	ND	ND	0.106	ND	0.134	ND	ND	ND	ND	0.144
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/24/97	0.0542	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0731	ND	ND	ND	ND
U-4	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
U-5	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/31/97	3.12	ND	1.43	0.122	ND	ND	ND	ND	0.287	ND	0.543	7.73	ND	ND	8.49	0.672
	04/25/97	1.06	ND	0.326	ND	ND	ND	ND	ND	ND	ND	ND	2.57	ND	ND	1.98	0.213
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.112	4.29	ND	ND	ND	0.149
	10/24/97	1.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.63	ND	ND	4.26	0.461

COPPOR0005433

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
U-5A	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8270 - SIM

COPPOR0005434

ATTACHMENT A

CERTIFIED ANALYTICAL REPORTS

CHAIN-OF-CUSTODY DOCUMENTATION

October 16, 1997
Project 1115-099.2A

Ms. Jill Kiernan, P.E.
Oregon Department of Environmental Quality
Waste Management and Cleanup
2020 SW Fourth Avenue, Suite 400
Portland, Oregon 97204

Re: Second Quarter (March - May 1997) Report
RI/FS Interim Action
Willbridge Facility
Portland, Oregon
Consent Order WMCSR-NWR-94-06

Dear Ms. Kiernan:

Pacific Environmental Group, Inc. (PACIFIC), is pleased to present the second quarter 1997 report for the remedial investigation/feasibility study (RI/FS) work being performed at the Chevron, Tosco (formerly Unocal), and GATX (formerly Shell) terminals which compose the Willbridge Facility in Portland, Oregon (Figure 1). This letter presents a summary of the following:

- Actions taken under the Consent Order from March 1997 to May 1997.
- Second Quarter 1997 sampling, test results, and other data generated between March 1997 and May 1997.

This report fulfills the requirement of Section 7F of Oregon Department of Environmental Quality (DEQ) Consent Order WMCSR-NWR-94-06.

ACTIVITIES PERFORMED SECOND QUARTER 1997

The following work was performed during March 1997 through May 1997:

- Performed quarterly groundwater sampling at the Chevron, GATX, and Tosco terminals.
- Performed monthly separate-phase hydrocarbon (SPH) removal from wells located on the Tosco, Chevron, and GATX terminals.

SECOND QUARTER 1997 MONITORING ANALYSIS

Interim action monitoring activities performed during the second quarter included water level and SPH thickness measurements and groundwater sampling from selected wells, as outlined in the Field Coordination Plan (FCP) dated April 1995.

Hydrogeological Analysis

Water level measurements were performed in April 1997. Measurements were corrected for SPH where encountered. A groundwater table contour map using the April 1997 data is shown on Figures 2A and 2B. The April 1997 groundwater elevation data is presented in Table 1. Water elevation and SPH recovery data for April 1997 and historic water elevation measurements are presented in Table 5.

Water levels beneath the site are influenced by annual precipitation cycles and by river stage fluctuations. The effect of river stage fluctuations is most pronounced on water levels in wells along the river front. During the second quarter (March through May 1997), water table elevations in the vicinity of the river decreased from first quarter levels by approximately one foot, while water table elevations in upgradient facility wells decreased by approximately 0.5-foot. These changes are likely in response to continued decline in river stage combined with cessation of upgradient recharge from rainfall infiltration.

The direction of groundwater flow, inferred from the elevation contours, is generally toward the river, with a localized groundwater mound in the GATX south tank farm, and apparent elongated groundwater depressions (troughs) in the vicinity of Doane Avenue and the Saltzman Creek flume. These troughs may be caused by groundwater drainage through the backfill associated with the Doane Avenue storm sewer conduit and the Saltzman Creek flume. The groundwater mound in the GATX tank farm may be caused by the difference in hydraulic conductivity of the stratigraphic units beneath the GATX south tank farm (silt/clay) and the remainder of the site (sandy fill) or may represent a hydrogeological divide between the Saltzman Creek drainage and the historic Holbrook Slough drainage.

Hydrological Analysis

The Willamette River stage (measured at the Morrison Bridge river gauge and converted to City of Portland datum) ranged from a quarterly low of 8.78 feet April 14 to a high of 20.34 feet on May 21, 1997. The river stage averaged approximately 19.32 feet between April 24 and April 28, 1997, the dates of the Second Quarter groundwater monitoring.

Groundwater Analytical Results

Groundwater samples collected from selected facility monitoring wells were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds by EPA Method 8020, polyaromatic hydrocarbons (PAHs) by EPA Method 8270-SIM, and RCRA

Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) by EPA Method 6010A/7000 Series. The groundwater sampling protocol is presented as Attachment A.

The April 1997 BTEX results are presented in Table 2 and historic BTEX results are presented in Table 6. The April 1997 PAH results are presented in Table 3 and PAH results for the previous four quarters are presented in Table 7. The April 1997 metals results are presented in Tables 4A and 4B. Certified analytical results for all analyses are presented in Attachment A. Samples were not collected from wells containing SPH (as designated by NS/F in the tables).

BTEX Compounds

The April 1997 BTEX testing results appear to be consistent with the January 1997 results. Concentrations of BTEX in Well B-17 increased April 1997 after decreasing the previous three quarters. BTEX concentrations in Well B-14 decreased in April 1997 after increased concentrations in January 1997. Concentrations of BTEX in Well B-10 decreased April 1997 after increased concentrations the previous two quarters. Concentrations in Wells B-11 and CR-11 have decreased from the last quarter results. Concentrations in Wells B-22, B-30, B-35, CR-8, MW-11, MW-22, MW-26, MW-37, U-2, and U-3 have increased from the last quarter results.

The BTEX levels have remained both unchanged and non-detect since last quarter in Wells B-7, B-9, B-18, B-36, B-37, MW-31, MW-32, MW-33, and U-5. Previously unsampled Wells MW-40 and MW-13 reported non-detect concentrations of BTEX constituents.

PAH Compounds

The April 1997 PAH analytical results report detected PAH concentrations similar to January 1997 results. Reported concentrations of PAH compounds were generally below 1 part per billion (ppb), with the exception of naphthalene, phenanthrene, and fluorene. Detected concentrations of acenaphthene, fluorene, fluoranthene, naphthalene, and phenanthrene generally decreased from January 1997 with the exception of concentrations of fluorene and phenanthrene increasing by up to 30 ppb in Wells B-7, B-9, and B-10. Concentrations of naphthalene decreased by up to 42 ppb in Wells B-11 and B-14. Wells B-36, MW-13, MW-15, MW-32, MW-33, and MW-40 were reported as non-detect for all PAH compounds at laboratory detection limits.

Concentrations of carcinogenic PAHs (CPAHs) generally decreased at the facility; CPAHs were detected in Wells B-35, CR-8, MW-37, and U-3. Of these, only Well CR-8 reported CPAH concentrations above 1 ppb. All other wells analyzed for PAHs were non-detect for CPAHs.

Metals

Samples for RCRA Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) were collected and analyzed for total (unfiltered) metal concentrations. A selection (approximately 10 percent of the total) was additionally analyzed for dissolved (filtered) metal concentrations. Dissolved metal samples were field-filtered using a 0.45-micron filter capsule.

Total metals analytical results report concentrations of arsenic, barium, chromium, and lead in the majority of sampled wells. Of the 29 wells sampled for total metals, cadmium was detected in six wells, selenium in four, and mercury in four. The majority of wells reporting concentrations of total cadmium were located on the Chevron terminal. No silver was detected in wells sampled April 1997. There were no reported concentrations of analyzed total metals above 1 part per million (ppm).

Concentrations of mercury in Wells B-7, B-10, B-11, B-14, B-30, CR-8, CR-11, MW-33, and U-5 dropped from detectable levels in January 1997 to non-detect in April 1997. Concentrations of selenium in Wells B-14, CR-11, CR-14, and U-5 dropped from detectable levels in January 1997 to non-detect in April 1997. There was a reduction in arsenic concentrations in 14 wells out of 23 wells sampled both January 1997 and April 1997. Concentrations of barium increased slightly in 19 out of the 23 wells.

Dissolved metals analytical results for chromium, lead, and selenium are similar to the January 1997 sampling results; reported dissolved concentrations are reduced or non-detect when compared to the respective total metal results. Cadmium was detected in April 1997 total metal samples; however, results for dissolved metal samples were non-detect for cadmium, suggesting that cadmium is not present in dissolved form. Results for arsenic and barium analyses are similar to the January 1997 results; no significant reduction in reported concentrations is seen between dissolved and total metals analyses for these metals. Mercury analyses were non-detect for all dissolved samples. The Aprils 1997 data may indicate that arsenic and barium are present in a dissolved state, while cadmium, chromium, lead and selenium concentrations are the result of suspended solids in the sample.

Separate-Phase Hydrocarbon Analysis

Separate-phase hydrocarbon thicknesses were measured at selected wells on a monthly basis (Tables 1 and 5). Apparent SPH thickness data for April, July, and October 1996, and January and April 1997 are shown on Figures 3A and 3B.

Separate-phase hydrocarbon near the riverfront area is historically concentrated in the current and former alignments of the Doane Avenue stormwater outfall and possibly the Holbrook Slough. Wells B-1, B-4, B-17, and B-35 are located in the dock area nearest the old Doane Avenue storm drain alignment. Wells B-38, B-39, B-40, and U-5 are adjacent to the new Doane Avenue storm drain in the riverfront area. Well B-7 is

located nearest the historic Holbrook Slough outfall. Well RES-N is constructed in the backfill of the storm drain in the riverfront area. Well B-20 is located upgradient of the Holbrook Slough recovery trench.

The April 1997 product measurements generally indicate SPH thicknesses similar to previous quarter measurements in the riverfront area wells (Table 2) with the exception of Wells B-4, B-39, and B-40. The SPH thicknesses in Well B-4 decreased from approximately 0.5 foot in January 1997 to non-detectable levels in April 1997. Well B-39 contained approximately 0.9 feet of SPH in January 1997; this thickness decreased to 0.1 foot as measured in April 1997. An SPH thickness of approximately 0.5 foot was measured in Well B-40 in January 1997, the April 1997 thickness was measured at approximately 0.02 foot. Chevron Wells B-26 and B-31 contained detectable amounts of SPH. Separate-phase hydrocarbon was measured in Tosco Wells B-1, B-38, B-41, RES-N, and IT-E.

Within the tank farm areas, SPH was measured in Tosco Wells U-5A, U-4, and B-27 and in CR-3, CR-10, CR-7 and B-28 along the perimeter of the Chevron tank farm. Separate-phase hydrocarbon was measured in Wells MW-7, MW-9, MW-25 and MW-28 south of Front Avenue within the GATX terminal.

SEPARATE-PHASE HYDROCARBON RECOVERY

The SPH recovery program began in May 1995. Approximately 115 gallons of SPH were recovered by automated SPH product recovery equipment from late May 1995 to August 1996. Automated SPH recovery was discontinued at the facility in December 1996 and monthly manual recovery of SPH at the facility was initiated in early February 1997. Approximately 178 gallons of SPH have been removed to date by manual recovery methods. Approximately 79 gallons were manually recovered from March to May 1997.

Separate-phase hydrocarbon recovery by pumping was performed March 28, April 23, and May 30, 1997. Approximately 58 gallons of SPH were removed from Well MW-7 at the GATX terminal. Approximately 4 gallons of SPH were removed from Wells B-1, B-4, B-27, B-38, B-39, B-40, B-41, U-4, U-5A, RES-N and IT-E at the Tosco terminal. Approximately 17.1 gallons of SPH were removed from Wells B-26, B-28, B-31, CR-7, CR-9, and CR-10 at the Chevron terminal. The SPH recovery data is presented in Table 5.

Seep and Sheen Monitoring

Containment booms currently encompass the shoreline between the Chevron and Tosco docks, and from the south edge of the Tosco dock to the southern property line (beyond the new Doane Avenue storm sewer outfall). Additionally, secondary containment booms are located inside of the first boom around the new Doane Avenue outfall pipe.

Seeps and sheens are monitored by terminal personnel; significant sheens are reported to PACIFIC for further evaluation.

Chevron terminal employees reported a sheen event on April 2, 1997. Hydrocarbon sheen was present on the Willamette River in the vicinity of the Chevron dock, adjacent to the rip-rap covered slope south of the dock. Sheening was heavy enough to require containment measures to be temporarily increased. The sheen event persisted for two additional days, then quickly abated. Conjunctively, increased sheen was noted for those two days in the vicinity of the 60-inch Doane Avenue storm sewer outfall. This sheening was contained by in-place booms.

An analysis of river stage compared to precipitation provides a possible explanation for distinct, pronounced sheen events at the facility. A comparison of river stage and precipitation over time (Figure 4) shows that from March 1 to March 19, 1997 significant daily amounts of precipitation fell in the Portland area. This precipitation event ceased on approximately March 21, and only sporadic, minor amounts of precipitation fell until April 13, 1997. During the March 1 to April 13, 1997 time frame, the average river stage rose until March 30 when a rapid decline in river stage began, dropping approximately 7 feet by April 14, 1997.

A likely scenario is that a "slug" of groundwater recharge related to precipitation infiltration combined with lowering of the river stage increased the hydraulic gradient and flow volume along preferential pathways at the facility. The recharge precipitation event which ended on March 19, 1997 percolated into the area flow system and was likely stored upgradient of the facility for a brief period of time. When river levels began to decline, the hydraulic gradient within preferential pathways such as the 60-inch storm sewer and abandoned 27-inch storm sewer increased in response to increased drainage at the river. This caused a greater volume of water to flow through the pathways, pushing previously trapped SPH out into the river.

PROBLEMS ENCOUNTERED DURING SECOND QUARTER 1997

No problems were encountered during March 1997 through May 1997.

ACTIVITIES SCHEDULED FOR THIRD QUARTER 1997 (JUNE - AUGUST 1997)

The following actions are scheduled for Third Quarter 1997:

- Monthly SPH removal from identified "hot-spot" wells.
- Gauging of water level elevations and SPH in all facility wells during the Third Quarter sampling event, scheduled for July 1997.

PACIFIC appreciates the opportunity to be of service. If you have any questions regarding this letter, please call.

Sincerely,

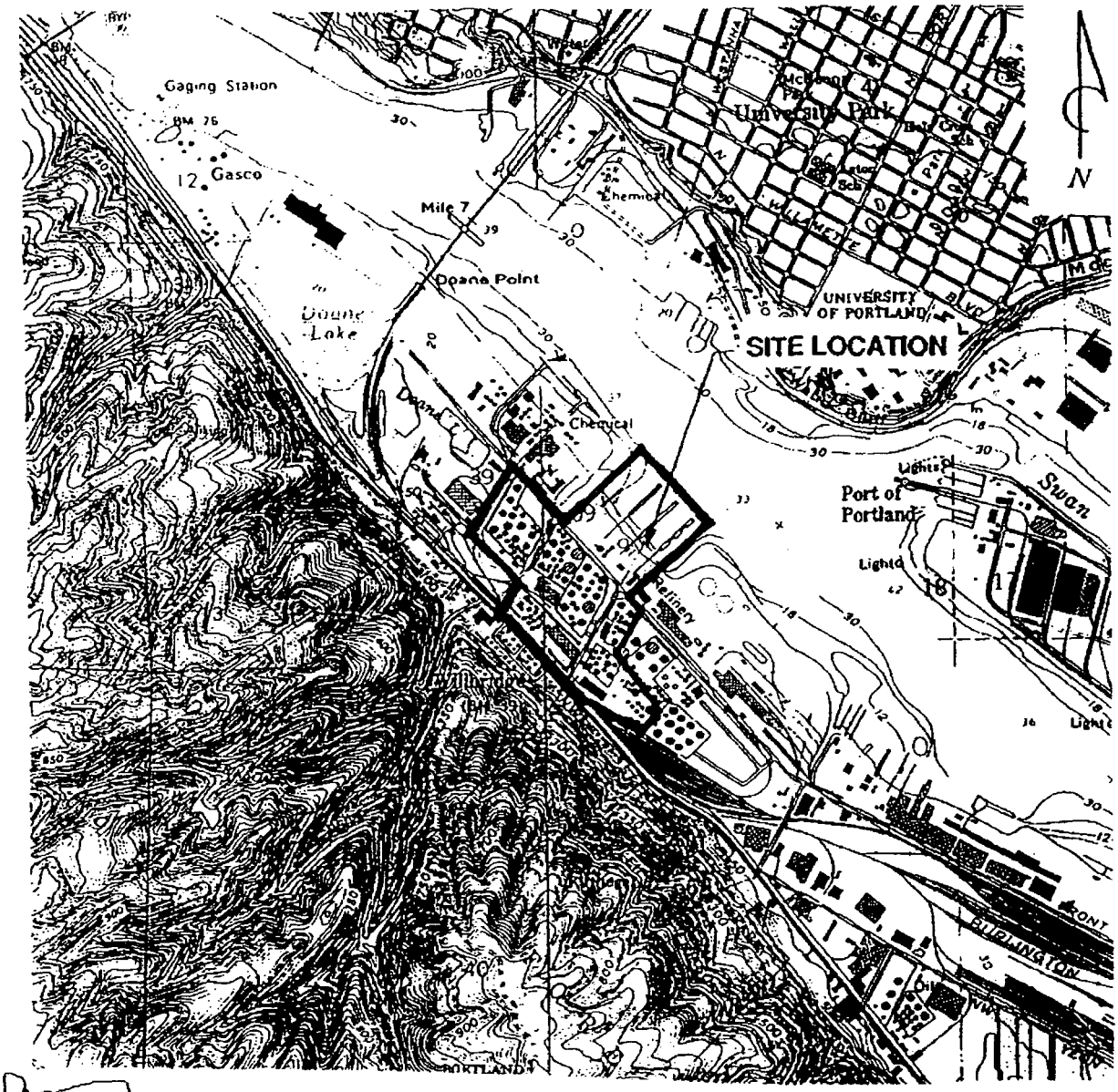
Pacific Environmental Group, Inc.

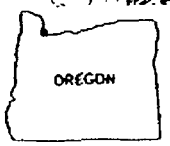
Kathleen Robertson
for
Jennifer Callison
Staff Geologist

Kevin M. Freeman
Senior Staff Hydrogeologist

Attachments: Figure 1 - Site Location Map
Figure 2A - Groundwater Elevation Contour Map (April 1997)
Figure 2B - Groundwater Elevation Contour Map (April 1997)
Figure 3A - Apparent Separate-Phase Hydrocarbon Thickness (April 1996 to April 1997)
Figure 3B - Apparent Separate-Phase Hydrocarbon Thickness (April 1996 to April 1997
Figure 4 - Precipitation and River Stage Hydrograph, Second Quarter 1997
Table 1 - Groundwater Elevation Data
Table 2 - Groundwater Analytical Results (Second Quarter BTEX)
Table 3 - Groundwater Analytical Results (Second Quarter PAHs)
Table 4A - Groundwater Analytical Results (Second Quarter Total Metals)
Table 4B - Groundwater Analytical Results (Second Quarter Dissolved Metals)
Table 5 - Groundwater Elevation and SPH Recovery Data (March 1995 to May 1997)
Table 6 - Groundwater Analytical Results (January 1995 - April 1997 BTEX)
Table 7 - Groundwater Analytical Results (April 1996 - January 1997 PAHs)
Attachment A - Sampling Protocol, Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Irv Jenkins, Shell Oil Products Company
Mr. Rene White, Chevron Products Company
Mr. Marty Cramer, Tosco Northwest Company
Mr. Eric Conard, GATX Terminals Corporation





QUADRANGLE LOCATION

REFERENCES:

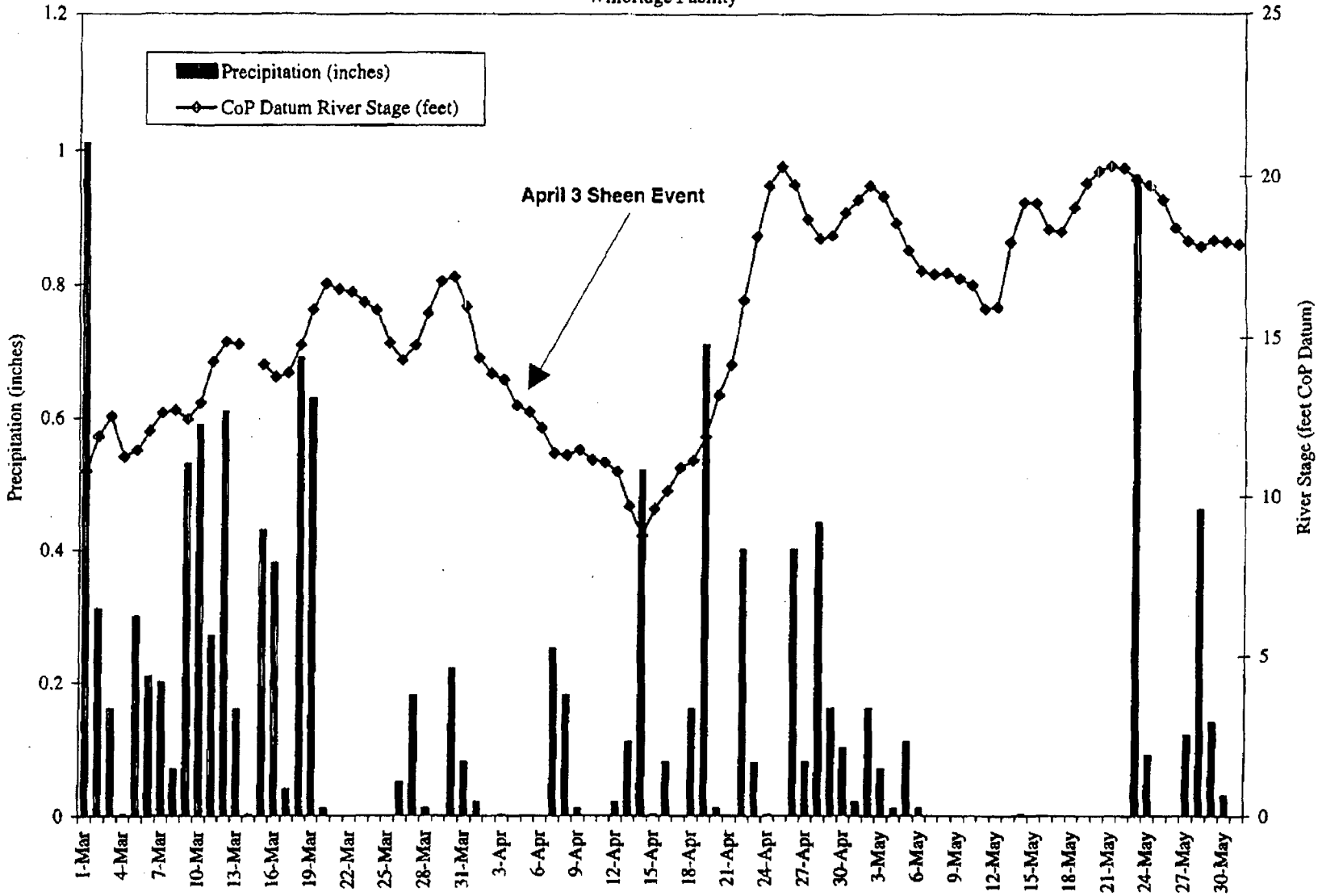
USGS 7.5 MIN TOPOGRAPHIC MAP
TITLED: PORTLAND, OREG-WASH
DATED: 1961 PHOTOREVISED: 1970-1977
TITLED: LINNTON, OREGON
DATED: 1990

SCALE IN FEET

2000 0 2000

PACIFIC ENVIRONMENTAL GROUP, INC.	**WILLBRIDGE FACILITY** Portland, Oregon	FIGURE: 1
	SITE LOCATION MAP	PROJECT: 1115-099.2A

Figure 4
Precipitation and River Stage
March - May 1997
Willbridge Facility



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October 16, 1997

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Table 1
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron				
B-7	33.96	04/21/97	NP	0.00	17.45	16.51	0.00
B-8	35.90	04/21/97	NP	0.00	16.67	19.23	0.00
B-9	33.95	04/21/97	NP	0.00	15.82	18.13	0.00
B-10	34.74	04/21/97	NP	0.00	14.85	19.89	0.00
B-11	34.95	04/21/97	NP	0.00	14.67	20.28	0.00
B-12	35.11	04/21/97	NP	0.00	15.20	19.91	0.00
B-13	34.76	04/21/97	NP	0.00	15.23	19.53	0.00
B-14	36.59	04/21/97	NP	0.00	17.03	19.56	0.00
B-15	35.55	04/21/97	NP	0.00	16.20	19.35	0.00
B-19	34.71	04/21/97	NP	0.00	15.67	19.04	0.00
B-20	33.40	04/21/97	NP	0.00	16.19	17.21	0.00
B-21	34.79	04/21/97	NP	0.00	15.99	18.80	0.00
B-24	34.70	04/21/97	NP	0.00	15.29	19.41	0.00
B-26	35.30	04/21/97	15.28	0.01	15.29	20.02	0.40
B-28	35.25	04/21/97	14.99	0.01	15.00	20.26	0.30
B-29	37.70	04/21/97	NP	0.00	14.61	23.09	0.00
B-30	35.35	04/21/97	NP	0.00	14.50	20.85	0.00
B-31	33.86	04/21/97	14.35	0.02	14.37	19.51	0.20
B-32	34.23	04/21/97	NP	0.00	15.89	18.34	NA
B-33	35.90	04/21/97	NP	0.00	15.70	20.20	0.00
CR-1	22.08	04/21/97	NP	0.00	2.32	19.76	0.00
CR-3	34.32	04/21/97	13.39	0.01	13.40	20.93	0.00
CR-4	34.93	04/21/97	NP	0.00	5.09	29.84	0.00
	37.14	05/03/97	NP	0.00	6.78	30.36	0.00
CR-6	35.61	04/21/97	NP	0.00	11.86	23.75	0.00
CR-7	35.57	04/21/97	10.60	0.11	10.71	24.95	9.60
CR-8	33.14	04/21/97	NP	0.00	6.41	26.73	0.00
CR-9	35.72	04/21/97	3.38	0.01	3.39	32.34	0.20
CR-10	35.57	04/21/97	4.26	0.16	4.42	31.29	6.40
CR-11	34.43	04/21/97	NP	0.00	1.34	33.09	0.00
					Chevron total SPH Recovered to Date:		**17.10**

Table 1 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX				
MW-1	35.43	04/21/97	NP	0.00	3.63	31.80	0.00
MW-2	35.77	04/21/97	NP	0.00	5.41	30.36	0.00
MW-3	36.02	04/21/97	NP	0.00	6.93	29.09	0.00
MW-4	36.39	04/21/97	NP	0.00	6.29	30.10	0.00
MW-5	33.52	04/21/97	NP	0.00	5.07	28.45	0.00
MW-6	33.34	04/21/97	NP	0.00	3.25	30.09	0.00
MW-7	34.12	04/21/97	7.91	1.81	9.72	25.94	57.00
MW-8	33.95	04/21/97	NP	0.00	7.07	26.88	0.00
MW-9	36.53	04/21/97	9.51	0.01	9.52	27.02	0.10
MW-10	35.82	04/21/97	NP	0.00	8.40	27.42	0.00
MW-11	36.47	04/21/97	NP	0.00	5.41	31.06	0.00
MW-12	35.95	04/21/97	NP	0.00	5.05	30.90	0.00
MW-13	37.89	04/21/97	NP	0.00	4.28	33.61	0.00
MW-14	36.28	04/21/97	NP	0.00	3.29	32.99	0.00
MW-15	37.50	04/21/97	NP	0.00	4.85	32.65	0.00
MW-16	34.93	04/21/97	NP	0.00	3.44	31.49	0.00
MW-17	36.05	04/21/97	NP	0.00	4.39	31.66	0.00
MW-18	33.76	04/21/97	NP	0.00	1.23	32.53	0.00
MW-19	33.39	04/21/97	NP	0.00	2.23	31.16	0.00
MW-20	34.76	04/21/97	NP	0.00	9.35	25.41	0.00
MW-21	34.33	04/21/97	NP	0.00	1.13	33.20	0.00
MW-22	35.65	04/21/97	NP	0.00	3.27	32.38	0.00
MW-23	36.06	04/21/97	NP	0.00	3.89	32.17	0.00
MW-24	35.15	04/21/97	NP	0.00	4.89	30.26	0.00
MW-25	34.73	04/21/97	9.90	0.01	9.91	24.83	0.10
MW-26	34.78	04/21/97	-	0.00	10.32	24.46	0.10
MW-27	35.67	04/21/97	NP	0.00	4.44	31.23	0.00
MW-28	34.39	04/21/97	4.72	0.03	4.75	29.67	0.50
MW-29	35.77	04/21/97	NP	0.00	12.89	22.88	0.00
MW-30	36.39	04/21/97	NP	0.00	4.65	31.74	0.00
MW-31	37.55	04/21/97	NP	0.00	5.73	31.82	0.00
MW-32	37.01	04/21/97	NP	0.00	4.02	32.99	0.00
MW-33	39.34	04/21/97	NP	0.00	19.61	19.73	0.00
MW-34	39.67	04/21/97	NP	0.00	19.41	20.26	0.00
MW-35	33.39	04/21/97	NP	0.00	2.58	30.81	0.00
MW-36	34.88	04/21/97	NP	0.00	13.98	20.90	0.00
MW-37	34.86	04/21/97	NP	0.00	14.48	20.38	NA
MW-38		04/21/97	NP	0.00	4.84	30.02	0.00
MW-39	35.02	04/21/97	NM	0.00	NM	0.00	0.00
MW-40	33.65	04/21/97	NP	0.00	13.65	20.00	0.00
						GATX total SPH Recovered to Date:	**57.80**

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Table 1 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco				
B-1	34.79	04/21/97	16.87	0.12	16.99	17.90	NA
B-2	35.35	04/21/97	NP	0.00	16.52	18.83	0.00
B-3	36.79	04/21/97	NP	0.00	18.48	18.31	0.00
B-4	34.79	04/21/97	NP	0.00	17.71	17.08	0.10
B-5	34.83	04/21/97	NP	0.00	16.08	18.75	0.00
B-6	35.41	04/21/97	NP	0.00	16.31	19.10	0.00
B-16	35.82	04/21/97	NP	0.00	16.65	19.17	0.00
B-17	35.59	04/21/97	NP	0.00	16.66	18.93	0.00
B-18	35.79	04/21/97	NP	0.00	18.94	16.85	0.00
B-22	35.83	04/21/97	NP	0.00	18.67	17.16	0.00
B-25	37.60	04/21/97	NP	0.00	15.29	22.31	0.00
B-27	35.74	04/21/97	17.37	0.13	17.50	18.35	0.60
B-35	33.58	04/21/97	NP	0.00	15.74	17.84	0.00
B-36	30.97	04/21/97	NP	0.00	19.98	10.99	0.00
B-37	35.24	04/21/97	14.39	5.64	20.03	20.00	NA
B-38	34.75	04/21/97	18.43	0.10	18.53	16.31	0.60
B-39	33.92	04/21/97	18.43	0.10	18.53	15.48	0.40
B-40	33.19	04/21/97	17.79	0.02	17.81	15.40	0.40
B-41	34.85	04/21/97	18.51	0.03	18.54	16.34	0.20
IT-E	36.44	04/21/97	19.69	0.63	20.32	16.66	0.30
IT-W	35.99	04/21/97	NP	0.00	17.44	18.55	0.00
RES-N	38.58	04/21/97	23.00	0.01	23.01	15.58	NA
RES-O	36.03	04/21/97	NP	0.00	17.00	19.03	0.00
U-2	35.02	04/21/97	NP	0.00	14.52	20.50	0.00
U-3	35.25	04/21/97	NP	0.00	12.82	22.43	0.00
U-4	34.46	04/21/97	15.26	0.09	15.35	19.19	NA
U-5	34.20	04/21/97	NP	0.00	18.61	15.59	0.00
U-5A	33.77	04/21/97	5.33	0.04	5.37	28.43	NA
					Tosco total SPH Recovered to Date:		**2.60**
					Complete total SPH Recovered to Date:		**77.50**

Notes:

SPH = Separate-phase hydrocarbon
NP = No product
NA = Not available
NM = Not measured
* = Groundwater elevation (GWE) is corrected for the presence of SPH using:
GWE = toc - (DTW + (SPH thickness x Specific gravity of SPH)) Specific gravity used is 0.85
** = SPH recovered represents total recovered for presented interval.

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Table 2
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron			
B-7	04/28/97	ND	ND	ND	ND
B-9	04/28/97	ND	ND	ND	ND
B-10	04/28/97	60.8	4.72	2.82	6.54
B-11	04/28/97	243	5.90	24.3	11.0
B-14	04/28/97	1,310	57.5	440	ND
B-30	04/28/97	124	14.9	7.86	18.1
Duplicate	04/28/97	133	15.5	8.42	19.0
CR-8	04/25/97	2.48	3.35	4.44	7.01
CR-11	04/25/97	32.6	2.01	0.711	ND

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Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX			
MW-8	04/24/97	124	3.76	53.6	89.8
MW-10	04/25/97	ND	ND	ND	ND
MW-11	04/24/97	6,860	3,360	2,840	11,300
MW-13	04/24/97	ND	ND	ND	ND
MW-15	04/24/97	2.40	ND	ND	ND
MW-21	04/25/97	ND	ND	ND	ND
MW-22	04/24/97	2,400	4,060	4,810	14,000
MW-26	04/24/97	2.80	2.48	7.58	7.32
MW-31	04/24/97	ND	ND	ND	ND
MW-32	04/24/97	ND	ND	ND	ND
MW-33	04/24/97	ND	ND	ND	ND
Duplicate	04/24/97	ND	ND	ND	ND
MW-36	04/25/97	ND	ND	ND	ND
MW-37	04/24/97	1,680	16.2	28.4	68.6
MW-40	04/24/97	ND	ND	ND	ND

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Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco			
B-4	04/25/97	228	8.02	7.36	ND
B-17	04/25/97	698	21.7	17.7	ND
B-18	04/25/97	ND	ND	ND	ND
B-22	04/25/97	20.1	1.62	0.806	ND
B-35	04/25/97	6.50	8.58	0.790	6.98
B-36	04/25/97	ND	ND	ND	ND
B-37	04/25/97	ND	ND	ND	ND
U-2	04/25/97	18.4	1.27	25.4	4.64
Duplicate	04/25/97	20.8	1.36	29.4	3.70
U-3	04/25/97	4.77	0.523	ND	ND
U-5	04/25/97	ND	ND	ND	ND

Notes:

ppb = Parts per billion
ND = Not detected
NS = Not sampled
NS/F = Not sampled floating product present
NA = Not analyzed, not applicable
BTEX by EPA Method 8020

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Table 3
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron																	
B-7	04/28/97	6.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.7	ND	ND	30.2	ND
B-9	04/28/97	6.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.4	ND	ND	18.6	ND
B-10	04/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.0	ND	ND	20.6	ND
B-11	04/28/97	0.686	ND	0.105	ND	ND	ND	ND	ND	ND	ND	ND	1.12	ND	1.64	0.852	0.134
B-14	04/28/97	0.865	ND	0.198	ND	ND	ND	ND	ND	ND	ND	0.542	1.47	ND	23.7	1.42	0.660
B-30	04/28/97	0.199	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.190	ND	0.345	0.210	0.143
Duplicate	04/28/97	0.246	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.124	0.262	ND	0.399	0.258	0.146
CR-8	04/25/97	ND	ND	0.101	0.502	1.31	0.790	1.36	0.708	0.687	ND	0.809	ND	0.943	ND	0.129	1.24
CR-11	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.183	ND	ND	ND	ND

COPPOR00005451

Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX																	
MW-8	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.52	ND	ND
MW-10	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-11	04/24/97	0.125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.171	ND	475	ND	ND
MW-13	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-21	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-22	04/24/97	0.182	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.366	ND	311	0.267	ND
MW-26	04/24/97	1.57	ND	0.153	ND	ND	ND	ND	ND	ND	ND	0.322	1.46	ND	3.96	0.876	0.149
MW-31	04/24/97	0.539	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	ND	ND	0.532	ND
MW-32	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-33	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-36	04/25/97	0.199	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-37	04/24/97	ND	ND	0.386	0.552	0.574	0.364	0.361	0.416	0.567	ND	1.31	ND	0.330	ND	2.41	1.65
MW-40	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR0005452

Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
							Tosco										
B-4	04/25/97	24.2	ND	20.1	ND	ND	ND	ND	ND	ND	ND	13.3	63.1	ND	ND	141	18.9
B-17	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.0	ND	ND	20.9	ND
B-18	04/25/97	0.308	ND	0.104	ND	ND	ND	ND	ND	ND	ND	ND	0.496	ND	ND	0.390	0.123
B-22	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.67	ND	ND	7.76	ND
B-35	04/25/97	5.33	ND	ND	0.571	0.118	0.150	ND	0.134	0.521	ND	ND	14.4	ND	ND	18.0	ND
B-36	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-37	04/25/97	0.189	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
U-2	04/25/97	0.364	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.179	0.873	ND	37.5	0.339	0.235
Duplicate	04/25/97	0.241	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.142	0.562	ND	ND	ND	0.153
U-3	04/25/97	ND	ND	ND	ND	0.109	0.104	ND	ND	0.106	ND	0.134	ND	ND	ND	ND	0.144
U-5	04/25/97	1.06	ND	0.326	ND	ND	ND	ND	ND	ND	ND	ND	2.57	ND	ND	1.98	0.213

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0005453

Table 4A
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				Chevron					
B-7	04/28/97	9.71	93.7	2.76	14.8	6.50	ND	ND	ND
B-9	04/28/97	24.7	100	ND	11.2	5.43	ND	ND	ND
B-10	04/28/97	34.2	208	ND	28.2	15.2	ND	ND	ND
B-11	04/28/97	23.8	156	ND	19.5	9.11	ND	ND	ND
B-14	04/28/97	35.3	187	ND	20.9	20.7	ND	ND	ND
B-30	04/28/97	29.0	153	73.2	17.2	41.6	ND	ND	ND
Duplicate	04/28/97	30.1	127	59.6	15.8	37.7	ND	ND	ND
CR-8	04/25/97	33.4	184	1.84	19.1	20.5	ND	ND	ND
CR-11	04/25/97	34.1	159	1.81	20.7	33.6	ND	ND	ND

COPPOR0005454

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					GATX				
MW-8	04/24/97	3.27	20.3	ND	3.20	1.11	ND	ND	ND
MW-10	04/25/97	5.37	31.6	ND	1.24	ND	ND	1.22	ND
MW-11	04/24/97	45.2	128	ND	8.21	39.6	0.240	1.45	ND
MW-13	04/24/97	48.1	814	ND	72.7	50.2	ND	ND	ND
MW-15	04/24/97	ND	92.9	ND	23.5	13.1	ND	ND	ND
MW-21	04/25/97	2.26	185	ND	1.91	1.32	ND	1.29	ND
MW-22	04/24/97	75.4	215	ND	2.24	7.85	ND	1.31	ND
MW-26	04/24/97	40.3	78.0	ND	1.08	1.30	ND	ND	ND
MW-31	04/24/97	5.98	17.3	ND	1.13	ND	ND	ND	ND
MW-32	04/24/97	ND	6.93	ND	2.54	ND	ND	ND	ND
MW-33	04/24/97	28.0	230	ND	2.25	ND	ND	ND	ND
Duplicate	04/24/97	27.4	227	ND	2.08	ND	ND	ND	ND
MW-36	04/25/97	10.1	51.8	ND	3.10	2.36	ND	ND	ND
MW-37	04/24/97	22.6	84.3	3.21	8.21	62.4	ND	ND	ND
MW-40	04/24/97	13.3	131	ND	8.67	10.4	0.350	ND	ND

COPPOR0005455

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				Tosco					
B-4	04/25/97	66.5	962	ND	215	78.5	ND	ND	ND
B-17	04/25/97	52.6	284	ND	45.2	44.0	ND	1.17	ND
B-18	04/25/97	17.1	179	ND	22.6	8.47	0.200	ND	ND
B-22	04/25/97	25.7	98.6	ND	2.99	2.40	ND	ND	ND
B-35	04/25/97	41.5	86.1	ND	2.26	5.08	ND	ND	ND
B-36	04/25/97	3.43	66.7	ND	4.85	1.37	ND	ND	ND
B-37	04/25/97	34.8	76.8	ND	4.89	1.96	ND	ND	ND
U-2	04/25/97	26.1	32.8	ND	1.34	1.74	ND	ND	ND
Duplicate	04/25/97	29.3	37.3	ND	1.71	2.31	ND	ND	ND
U-3	04/25/97	58.7	367	5.22	208	388	0.370	1.98	ND
U-5	04/25/97	6.76	62.9	ND	2.34	2.89	ND	ND	ND

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
Total Metals by EPA Method 6000/7000

COPPOR0005456

Table 4B
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Chevron				
B-7	04/28/97	6.12	26.2	ND	ND	ND	ND	ND	ND
B-30	04/28/97	19.5	50.6	ND	ND	ND	ND	ND	ND
Duplicate	04/28/97	19.0	52.1	ND	ND	ND	ND	ND	ND
CR-8	04/25/97	17.8	39.4	ND	ND	ND	ND	ND	ND

COPPOR00005457

Table 4B (continued)
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identi-fication	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					GATX				
MW-10	04/25/97	4.58	29.3	ND	ND	ND	ND	ND	ND
MW-32	04/24/97	ND	4.55	ND	3.08	ND	ND	ND	ND
MW-33	04/24/97	4.52	17.6	ND	ND	ND	ND	ND	ND
Duplicate	04/24/97	4.49	18.2	ND	ND	ND	ND	ND	ND

COPPOR0000458

Table 4B (continued)
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				Tosco					
B-17	04/25/97	48.4	95.8	ND	1.31	2.74	ND	ND	ND
U-2	04/25/97	21.0	33.9	ND	1.73	1.91	ND	ND	ND
Duplicate	04/25/97	15.5	22.8	ND	1.30	ND	ND	ND	ND
U-5	04/25/97	4.26	45.2	ND	1.15	ND	ND	1.07	ND

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
Dissolved Metals by EPA Method 6000/7000

COPPOR0005459

Table 5
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron				
B-7	33.96	03/24/95	18.07	0.00	18.07	15.89	NA
		04/24/95	18.61	0.00	18.61	15.35	NA
		05/22/95	18.56	0.00	18.56	15.40	NA
		06/19/95	18.77	0.00	18.77	15.19	NA
		07/24/95	19.74	0.00	19.74	14.22	NA
		08/28/95	20.03	0.00	20.03	13.93	NA
		09/25/95	19.79	0.01	19.80	14.17	NA
		10/23/95	19.56	0.01	19.57	14.40	NA
		11/27/95	18.61	0.00	18.61	15.35	NA
		12/29/95	17.74	0.00	17.74	16.22	NA
		01/22/96	15.82	0.00	15.82	18.14	NA
		02/26/96	14.09	0.04	14.13	19.86	NA
		03/25/96	17.38	0.01	17.39	16.58	NA
		04/22/96	17.07	0.01	17.08	16.89	NA
		05/28/96	16.46	0.00	16.46	17.50	NA
		06/24/96	17.96	0.00	17.96	16.00	NA
		07/22/96	18.79	0.00	18.79	15.17	NA
		08/26/96	19.18	0.00	19.18	14.78	NA
		09/23/96	19.22	0.00	19.22	14.74	NA
		10/28/96	19.10	0.00	19.10	14.86	NA
		11/25/96	17.95	0.00	17.95	16.01	NA
		01/29/97	NP	0.00	17.24	16.72	0.00
		04/21/97	NP	0.00	17.45	16.51	0.00
						SPH Recovered to Date:	**0.00**
B-8	35.90	01/29/97	NP	0.00	15.99	19.91	0.00
		04/21/97	NP	0.00	16.67	19.23	0.00
						SPH Recovered to Date:	**0.00**
B-9	33.95	03/24/95	NA	0.00	16.01	17.94	NA
		04/24/95	NA	0.00	16.42	17.53	NA
		05/22/95	NA	0.00	16.54	17.41	NA
		06/19/95	NA	0.00	16.59	17.36	NA
		07/24/95	NA	0.00	17.45	16.50	NA
		08/28/95	NA	0.00	17.85	16.10	NA
		09/25/95	NA	0.00	17.85	16.10	NA
		10/23/95	NA	0.00	17.45	16.50	NA
		11/27/95	NA	0.00	16.51	17.44	NA
		12/29/95	NA	0.00	15.86	18.09	NA
		01/22/96	NA	0.00	15.31	18.64	NA
		01/29/96	NP	0.00	15.31	18.64	0.00
		02/26/96	NA	0.00	13.20	20.75	NA
		03/25/96	NA	0.00	15.49	18.46	NA
		04/22/96	NA	0.00	15.20	18.75	NA
		05/28/96	NA	0.00	15.47	18.48	NA
		06/24/96	NA	0.00	16.09	17.86	NA
		07/22/96	NA	0.00	16.61	17.34	NA
		08/26/96	NA	0.00	17.26	16.69	NA
		09/23/96	NA	0.00	17.14	16.81	NA

COPPOR00005460

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-9	33.95	10/28/96	NA	0.00	17.21	16.74	NA
		11/25/96	NA	0.00	16.35	17.60	NA
		01/29/97	NP	0.00	15.31	18.64	0.00
		04/21/97	NP	0.00	15.82	18.13	0.00
						SPH Recovered to Date:	**0.00**
B-10	34.74	03/24/95	15.08	0.00	15.08	19.66	NA
		04/24/95	15.41	0.00	15.41	19.33	NA
		05/22/95	15.68	0.00	15.68	19.06	NA
		06/19/95	15.96	0.00	15.96	18.78	NA
		07/24/95	16.26	0.00	16.26	18.48	NA
		08/28/95	16.26	0.32	16.58	18.43	NA
		09/25/95	16.84	0.00	16.84	17.90	NA
		10/23/95	16.70	0.00	16.70	18.04	NA
		11/27/95	15.99	0.00	15.99	18.75	NA
		12/29/95	15.01	0.00	15.01	19.73	NA
		01/22/96	14.67	0.00	14.67	20.07	NA
		02/26/96	12.18	0.00	12.18	22.56	NA
		03/25/96	13.82	0.00	13.82	20.92	NA
		04/22/96	14.66	0.00	14.66	20.08	NA
		05/28/96	14.59	0.00	14.59	20.15	NA
		06/24/96	15.03	0.00	15.03	19.71	NA
		07/22/96	15.64	0.00	15.64	19.10	NA
		08/26/96	16.12	0.00	16.12	18.62	NA
		09/23/96	16.21	0.00	16.21	18.53	NA
		10/28/96	16.18	0.00	16.18	18.56	NA
		11/25/96	15.35	0.00	15.35	19.39	NA
		01/29/97	NP	0.00	13.80	20.94	0.00
		04/21/97	NP	0.00	14.85	19.89	0.00
						SPH Recovered to Date:	**0.00**
B-11	34.95	03/24/95	NA	0.00	15.22	19.73	NA
		07/24/95	NA	0.00	16.08	18.87	NA
		10/23/95	NA	0.00	16.64	18.31	NA
		01/22/96	NA	0.00	15.73	19.22	NA
		04/22/96	NA	0.00	14.44	20.51	NA
		05/28/96	NA	0.00	14.46	20.49	NA
		07/22/96	NA	0.00	15.40	19.55	NA
		08/26/96	NA	0.00	15.91	19.04	NA
		09/23/96	NA	0.00	16.08	18.87	NA
		10/28/96	NA	0.00	16.14	18.81	NA
		11/25/96	NA	0.00	15.53	19.42	NA
		01/29/97	NP	0.00	15.65	19.30	0.00
		04/21/97	NP	0.00	14.67	20.28	0.00
						SPH Recovered to Date:	**0.00**
B-12	35.11	08/26/96	NA	0.00	16.37	18.74	NA
		09/23/96	NA	0.00	16.53	18.58	NA
		11/25/96	NA	0.00	16.07	19.04	NA

COPPOR00005461

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-12	35.11	01/29/97	NP	0.00	14.18	20.93	0.00
		04/21/97	NP	0.00	15.20	19.91	0.00
						SPH Recovered to Date:	**0.00**
B-13	34.76	08/26/96	NA	0.00	16.36	18.40	NA
		09/23/96	NA	0.00	16.51	18.25	NA
		10/28/96	NA	0.00	16.59	18.17	NA
		11/25/96	NA	0.00	16.14	18.62	NA
		01/29/97	NP	0.00	14.35	20.41	0.00
		04/21/97	NP	0.00	15.23	19.53	0.00
						SPH Recovered to Date:	**0.00**
B-14	36.59	04/24/95	NA	0.00	17.59	19.00	NA
		07/24/95	NA	0.00	18.35	18.24	NA
		10/23/95	NA	0.00	18.84	17.75	NA
		01/22/96	NA	0.00	17.21	19.38	NA
		04/22/96	NA	0.00	15.80	20.79	NA
		05/28/96	NA	0.00	16.82	19.77	NA
		07/22/96	NA	0.00	17.70	18.89	NA
		08/26/96	NA	0.00	18.15	18.44	NA
		09/23/96	NA	0.00	18.31	18.28	NA
		10/28/96	NA	0.00	18.40	18.19	NA
		11/25/96	NA	0.00	17.94	18.65	NA
		01/29/97	NP	0.00	16.05	20.54	0.00
		04/21/97	NP	0.00	17.03	19.56	0.00
						SPH Recovered to Date:	**0.00**
B-15	35.55	08/26/96	NA	0.00	17.32	18.23	NA
		09/23/96	NA	0.00	17.47	18.08	NA
		10/28/96	NA	0.00	17.56	17.99	NA
		11/25/96	NA	0.00	17.08	18.47	NA
		01/29/97	NP	0.00	15.26	20.29	0.00
		04/21/97	NP	0.00	16.20	19.35	0.00
						SPH Recovered to Date:	**0.00**
B-19	34.71	03/24/95	NA	0.00	16.01	18.70	NA
		04/24/95	NA	0.00	16.21	18.50	NA
		05/22/95	NA	0.00	16.45	18.26	NA
		06/19/95	NA	0.00	16.70	18.01	NA
		07/24/95	NA	0.00	17.09	17.62	NA
		08/28/95	NA	0.00	17.37	17.34	NA
		09/25/95	NA	0.00	17.56	17.15	NA
		10/23/95	NA	0.00	17.45	17.26	NA
		11/27/95	NA	0.00	16.86	17.85	NA
		12/29/95	NA	0.00	15.75	18.96	NA
		01/22/96	NA	0.00	15.54	19.17	NA
		02/26/96	NA	0.00	12.95	21.76	NA
		03/25/96	NA	0.00	14.80	19.91	NA
		04/22/96	NA	0.00	15.39	19.32	NA
		05/28/96	NA	0.00	15.31	19.40	NA

COPPOR00005462

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-19	34.71	06/24/96	NA	0.00	15.79	18.92	NA
		07/22/96	NA	0.00	16.35	18.36	NA
		08/26/96	NA	0.00	16.84	17.87	NA
		09/23/96	NA	0.00	16.97	17.74	NA
		10/28/96	NA	0.00	17.03	17.68	NA
		11/25/96	NA	0.00	16.43	18.28	NA
		01/29/97	NP	0.00	14.81	19.90	0.00
		04/21/97	NP	0.00	15.67	19.04	0.00
						SPH Recovered to Date:	**0.00**
B-20	33.40	03/24/95	16.55	0.00	16.55	16.85	NA
		04/24/95	16.93	0.00	16.93	16.47	NA
		05/22/95	16.96	0.00	16.96	16.44	NA
		06/19/95	17.20	0.00	17.20	16.20	NA
		07/24/95	17.95	0.19	18.14	15.42	NA
		08/28/95	18.30	0.37	18.67	15.04	NA
		09/25/95	18.26	0.01	18.27	15.14	NA
		10/23/95	18.04	0.00	18.04	15.36	NA
		11/27/95	17.11	0.01	17.12	16.29	NA
		12/29/95	16.17	0.01	16.18	17.23	NA
		01/22/96	15.20	0.00	15.20	18.20	NA
		02/26/96	13.55	0.01	13.56	19.85	NA
		03/25/96	15.99	0.00	15.99	17.41	NA
		04/22/96	15.88	0.00	15.88	17.52	NA
		05/28/96	15.59	0.00	15.59	17.81	NA
		06/24/96	16.29	0.00	16.29	17.11	NA
		07/22/96	17.13	0.00	17.13	16.27	NA
		08/26/96	17.62	0.00	17.62	15.78	NA
		09/23/96	17.59	1.05	18.64	15.65	NA
		10/28/96	17.50	0.43	17.93	15.84	NA
		11/25/96	16.57	0.05	16.62	16.82	NA
		01/29/97	NP	0.00	15.93	17.47	0.00
		04/21/97	NP	0.00	16.19	17.21	0.00
						SPH Recovered to Date:	**0.00**
B-21	34.79	03/24/95	NA	0.00	16.23	18.56	NA
		04/24/95	NA	0.00	16.42	18.37	NA
		05/22/95	NA	0.00	16.63	18.16	NA
		06/19/95	NA	0.00	16.83	17.96	NA
		07/24/95	NA	0.00	17.18	17.61	NA
		08/28/95	NA	0.00	17.43	17.36	NA
		09/25/95	NA	0.00	17.58	17.21	NA
		10/23/95	NA	0.00	17.53	17.26	NA
		11/27/95	NA	0.00	17.09	17.70	NA
		12/29/95	NA	0.00	16.07	18.72	NA
		01/22/96	NA	0.00	15.91	18.88	NA
		02/26/96	NA	0.00	13.30	21.49	NA
		03/25/96	NA	0.00	15.08	19.71	NA
		04/22/96	NA	0.00	15.77	19.02	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-21	34.79	05/28/96	NA	0.00	15.61	19.18	NA
		06/24/96	NA	0.00	16.01	18.78	NA
		07/22/96	NA	0.00	16.53	18.26	NA
		08/26/96	NA	0.00	16.95	17.84	NA
		09/23/96	NA	0.00	17.11	17.68	NA
		10/28/96	NA	0.00	17.20	17.59	NA
		11/25/96	NA	0.00	16.71	18.08	NA
		01/29/97	NP	0.00	15.23	19.56	0.00
		04/21/97	NP	0.00	15.99	18.80	0.00
						SPH Recovered to Date:	**0.00**
B-24	34.70	03/24/95	15.87	0.01	15.88	18.83	NA
		04/24/95	15.96	0.03	15.99	18.74	NA
		05/22/95	16.17	0.01	16.18	18.53	NA
		06/19/95	16.39	0.02	16.41	18.31	NA
		07/24/95	16.56	0.04	16.60	18.13	0.01
		08/28/95	16.81	0.00	16.81	17.89	NA
		09/25/95	17.02	0.00	17.02	17.68	0.03
		10/23/95	17.05	0.00	17.05	17.65	NA
		11/27/95	16.75	0.00	16.75	17.95	NA
		12/29/95	15.90	0.00	15.90	18.80	NA
		01/22/96	15.71	0.00	15.71	18.99	NA
		02/26/96	13.98	0.00	13.98	20.72	NA
		03/25/96	14.62	0.00	14.62	20.08	NA
		04/22/96	15.28	0.00	15.28	19.42	NA
		05/28/96	15.25	0.00	15.25	19.45	NA
		06/24/96	15.57	0.00	15.57	19.13	NA
		07/22/96	15.95	0.00	15.95	18.75	NA
		08/26/96	16.35	0.00	16.35	18.35	NA
		09/23/96	16.51	0.01	16.52	18.19	NA
		10/28/96	16.54	0.00	16.54	18.16	NA
		01/29/97	NM	0.00	NM	0.00	0.00
		04/21/97	NP	0.00	15.29	19.41	0.00
						SPH Recovered to Date:	**0.04**
B-26	37.04	03/12/95	NP	0.00	16.56	20.48	0.00
	35.30	04/24/95	NA	0.00	15.81	19.49	NA
		07/24/95	NA	0.00	16.69	18.61	NA
		10/23/95	NA	0.00	17.16	18.14	NA
		01/22/96	NA	0.00	15.23	20.07	NA
		04/22/96	NA	0.00	14.85	20.45	NA
		05/28/96	NA	0.00	14.95	20.35	NA
		07/22/96	NA	0.00	16.03	19.27	NA
		08/26/96	16.52	0.00	16.52	18.78	NA
		09/23/96	16.63	0.00	16.63	18.67	NA
		10/28/96	16.68	0.00	16.68	18.62	NA
		11/25/96	15.94	0.00	15.94	19.36	NA
		01/29/97	NP	0.00	14.36	20.94	NA
		04/21/97	15.28	0.01	15.29	20.02	0.40

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
						SPH Recovered to Date:	**0.40**
B-28	35.25	04/24/95	NA	0.00	15.02	20.23	NA
		07/24/95	NA	0.00	16.14	19.11	NA
		10/23/95	NA	0.00	16.40	18.85	NA
		01/22/96	NA	0.00	15.25	20.00	NA
		04/22/96	NA	0.00	14.62	20.63	NA
		05/28/96	NA	0.00	14.68	20.57	NA
		07/22/96	NA	0.00	15.51	19.74	NA
		10/28/96	NA	0.00	15.98	19.27	NA
		01/29/97	NP	0.00	14.36	20.89	NA
		04/21/97	14.99	0.01	15.00	20.26	0.30
						SPH Recovered to Date:	**0.30**
B-29	37.70	01/29/97	NL	0.00	NL	0.00	0.00
		04/21/97	NP	0.00	14.61	23.09	0.00
						SPH Recovered to Date:	**0.00**
B-30	35.35	04/24/95	NA	0.00	15.60	19.75	NA
		06/19/95	NP	0.00	15.60	19.75	0.00
		07/24/95	NA	0.00	15.96	19.39	NA
		10/23/95	NA	0.00	16.51	18.84	NA
		01/22/96	NA	0.00	14.51	20.84	NA
		04/22/96	NA	0.00	14.12	21.23	NA
		05/28/96	NA	0.00	14.68	20.67	NA
		07/22/96	NA	0.00	15.22	20.13	NA
		10/28/96	NA	0.00	15.94	19.41	NA
		01/29/97	NP	0.00	13.48	21.87	0.00
		04/21/97	NP	0.00	14.50	20.85	0.00
						SPH Recovered to Date:	**0.00**
B-31	33.86	03/24/95	NA	0.00	14.49	19.37	NA
		04/24/95	NA	0.00	15.30	18.56	NA
		05/22/95	NA	0.00	15.98	17.88	NA
		06/19/95	NA	0.00	16.74	17.12	NA
		07/24/95	NA	0.00	16.89	16.97	NA
		08/28/95	NA	0.00	17.15	16.71	NA
		09/25/95	NA	0.00	16.97	16.89	NA
		10/23/95	16.52	0.08	16.44	17.49	NA
		11/27/95	16.63	3.21	13.42	23.17	NA
		12/29/95	14.36	0.00	14.36	19.50	NA
		01/22/96	NA	0.00	15.73	18.13	NA
		02/26/96	NA	0.00	12.56	21.30	NA
		03/25/96	NA	0.00	16.06	17.80	NA
		04/22/96	NA	0.00	12.56	21.30	NA
		05/28/96	NA	0.00	14.61	19.25	NA
		06/24/96	NA	0.00	14.04	19.82	NA
		07/22/96	NA	0.00	15.84	18.02	NA
		08/26/96	NA	0.00	16.71	17.15	NA
		09/23/96	16.52	0.05	16.47	17.43	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-31	33.86	10/28/96	16.63	0.73	15.90	18.58	NA
		11/25/96	NA	0.00	14.47	19.39	NA
		01/29/97	NP	0.00	14.75	19.11	0.00
		04/21/97	14.35	0.02	14.37	19.51	0.20
						SPH Recovered to Date:	**0.20**
B-32	34.23	03/24/95	16.03	0.00	16.03	18.20	NA
		04/24/95	16.31	0.26	16.57	17.88	NA
		05/22/95	16.76	0.00	16.76	17.47	NA
		06/19/95	17.10	0.00	17.10	17.13	NA
		07/24/95	17.59	0.00	17.59	16.64	NA
		08/28/95	17.94	0.00	17.94	16.29	NA
		09/25/95	18.11	0.00	18.11	16.12	NA
		10/23/95	17.98	0.00	17.98	16.25	NA
		11/27/95	17.25	0.00	17.25	16.98	NA
		12/29/95	16.09	0.00	16.09	18.14	NA
		01/22/96	NA	0.00	15.73	18.50	NA
		02/26/96	NA	0.00	12.72	21.51	NA
		03/25/96	NA	0.00	15.45	18.78	NA
		04/22/96	NA	0.00	15.75	18.48	NA
		05/28/96	NA	0.00	15.37	18.86	NA
		06/24/96	NA	0.00	16.01	18.22	NA
		07/22/96	NA	0.00	16.86	17.37	NA
		08/26/96	NA	0.00	17.37	16.86	NA
		09/23/96	NA	0.00	17.61	16.62	NA
		10/28/96	NA	0.00	17.57	16.66	NA
		11/25/96	NA	0.00	16.61	17.62	NA
		01/29/97	NP	0.00	15.46	18.77	NA
		04/21/97	NP	0.00	15.89	18.34	NA
						SPH Recovered to Date:	**0.00**
B-33	35.90	01/29/97	NP	0.00	14.86	21.04	0.00
		04/21/97	NP	0.00	15.70	20.20	0.00
						SPH Recovered to Date:	**0.00**
CR-1	22.08	01/29/96	NP	0.00	1.63	20.45	0.00
		01/29/97	NP	0.00	1.63	20.45	0.00
		04/21/97	NP	0.00	2.32	19.76	0.00
						SPH Recovered to Date:	**0.00**
CR-3	34.32	04/24/95	NA	0.00	14.09	20.23	NA
		07/24/95	NA	0.00	15.25	19.07	NA
		10/23/95	NA	0.00	15.81	18.51	NA
		01/22/96	NA	0.00	10.42	23.90	NA
		01/29/96	NP	0.00	12.52	21.80	0.00
		04/22/96	NA	0.00	12.68	21.64	NA
		05/28/96	NA	0.00	13.61	20.71	NA
		07/22/96	NA	0.00	14.62	19.70	NA
		08/26/96	NA	0.00	15.13	19.19	NA
		09/23/96	NA	0.00	15.28	19.04	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-3	34.32	10/28/96	NA	0.00	14.79	19.53	NA
		11/25/96	NA	0.00	12.45	21.87	NA
		01/29/97	NP	0.00	12.52	21.80	0.00
		04/21/97	13.39	0.01	13.40	20.93	0.00
						SPH Recovered to Date:	**0.00**
CR-4	34.93	04/24/95	NA	0.00	5.13	29.80	NA
		07/24/95	NA	0.00	6.90	28.03	NA
		01/22/96	NA	0.00	4.70	30.23	NA
		05/28/96	NA	0.00	4.99	29.94	NA
		07/22/96	NA	0.00	6.48	28.45	NA
		10/28/96	NA	0.00	6.35	28.58	NA
	37.14	01/29/97	NP	0.00	4.99	32.15	0.00
	34.93	04/21/97	NP	0.00	5.09	29.84	0.00
	37.14	05/03/97	NP	0.00	6.78	30.36	0.00
						SPH Recovered to Date:	**0.00**
CR-6	35.61	03/24/95	12.07	0.01	12.08	23.54	NA
		04/24/95	12.03	0.01	12.04	23.58	NA
		05/22/95	12.51	0.01	12.52	23.10	NA
		06/19/95	10.16	0.00	10.16	25.45	NA
		07/24/95	14.86	0.01	14.87	20.75	0.02
		08/28/95	14.51	0.01	14.52	21.10	0.02
		09/25/95	15.46	0.01	15.47	20.15	0.05
		10/23/95	15.50	0.00	15.50	20.11	NA
		12/29/95	8.81	0.00	8.81	26.80	NA
		01/22/96	12.02	0.01	12.03	23.59	0.04
		02/26/96	10.71	0.00	10.71	24.90	NA
		03/25/96	11.28	0.00	11.28	24.33	NA
		05/28/96	11.49	0.00	11.49	24.12	NA
		06/24/96	11.35	0.00	11.35	24.26	NA
		07/22/96	12.57	0.01	12.58	23.04	0.01
		08/26/96	13.03	0.02	13.05	22.58	0.02
		09/23/96	13.05	0.03	13.08	22.56	NA
		10/28/96	12.85	0.04	12.89	22.75	NA
		11/25/96	12.55	0.02	12.57	23.06	NA
		01/29/97	NP	0.00	11.15	24.46	0.00
		04/21/97	NP	0.00	11.86	23.75	0.00
						SPH Recovered to Date:	**0.17**
CR-7	35.57	03/24/95	10.01	0.48	10.49	25.49	NA
		04/24/95	10.19	0.57	10.76	25.29	NA
		05/22/95	10.76	0.75	11.51	24.70	NA
		06/19/95	11.25	0.15	11.40	24.30	NA
		07/24/95	11.80	0.01	11.81	23.77	0.13
		08/28/95	12.20	0.00	12.20	23.37	0.03
		09/25/95	12.48	0.00	12.48	23.09	0.03
		10/23/95	11.98	0.00	11.98	23.59	NA
		11/27/95	10.73	0.00	10.73	24.84	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-7	35.57	12/29/95	10.23	0.05	10.28	25.33	NA
		01/22/96	9.91	0.21	10.12	25.63	0.12
		02/26/96	8.50	0.50	9.00	27.00	0.15
		03/25/96	9.81	0.02	9.83	25.76	0.01
		04/22/96	10.21	0.12	10.33	25.34	NA
		05/28/96	9.82	0.31	10.13	25.70	0.38
		06/24/96	10.78	0.20	10.98	24.76	0.69
		07/22/96	11.35	0.22	11.57	24.19	0.45
		08/26/96	11.84	0.12	11.96	23.71	0.13
		09/23/96	11.94	0.03	11.97	23.63	NA
		10/28/96	11.51	0.02	11.53	24.06	NA
		11/25/96	10.80	0.00	10.80	24.77	NA
		01/29/97	NP	0.00	11.11	24.46	0.00
		04/21/97	10.60	0.11	10.71	24.95	9.60
						SPH Recovered to Date:	**11.72**
CR-8	33.14	04/24/95	NA	0.00	6.41	26.73	NA
		07/24/95	NA	0.00	8.22	24.92	NA
		10/23/95	NA	0.00	8.08	25.06	NA
		01/22/96	NA	0.00	6.21	26.93	NA
		04/22/96	NA	0.00	6.47	26.67	NA
		05/28/96	NA	0.00	6.31	26.83	NA
		07/22/96	NA	0.00	7.08	26.06	NA
		10/28/96	NA	0.00	7.71	25.43	NA
		01/29/97	NP	0.00	5.94	27.20	0.00
		04/21/97	NP	0.00	6.41	26.73	0.00
						SPH Recovered to Date:	**0.00**
CR-9	35.72	01/29/97	NP	0.00	4.56	31.16	0.00
		04/21/97	3.38	0.01	3.39	32.34	0.20
						SPH Recovered to Date:	**0.20**
CR-10	35.57	03/24/95	5.34	0.03	5.37	30.23	NA
		04/24/95	4.27	0.08	4.35	31.29	NA
		05/22/95	5.31	0.09	5.40	30.25	NA
		06/19/95	6.30	0.08	6.38	29.26	NA
		07/24/95	9.22	0.00	9.22	26.35	NA
		08/28/95	10.15	0.00	10.15	25.42	0.40
		09/25/95	10.82	0.00	10.82	24.75	NA
		10/23/95	9.44	0.00	9.44	26.13	NA
		12/29/95	7.54	0.00	7.54	28.03	NA
		01/22/96	6.96	0.05	7.01	28.60	NA
		02/26/96	6.76	0.17	6.93	28.78	0.13
		03/25/96	7.62	0.00	7.62	27.95	5.16
		04/22/96	7.69	0.00	7.69	27.88	NA
		07/22/96	1.28	0.05	1.23	34.38	NA
		11/25/96	2.35	0.00	2.35	33.22	NA
		01/29/97	NP	0.00	3.76	31.81	0.00
		04/21/97	4.26	0.16	4.42	31.29	6.40

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
						SPH Recovered to Date:	**12.09**
CR-11	34.43	03/24/95	1.19	0.00	1.19	33.24	NA
		04/24/95	1.34	0.00	1.34	33.09	NA
		05/22/95	2.49	0.00	2.49	31.94	NA
		06/19/95	2.94	0.00	2.94	31.49	NA
		07/24/95	3.68	0.00	3.68	30.75	NA
		08/28/95	4.18	0.00	4.18	30.25	NA
		09/25/95	4.83	0.00	4.83	29.60	NA
		10/23/95	4.59	0.00	4.59	29.84	NA
		11/27/95	3.61	0.00	3.61	30.82	NA
		12/29/95	1.83	0.00	1.83	32.60	NA
		01/22/96	1.78	0.00	1.78	32.65	NA
		02/26/96	1.13	0.00	1.13	33.30	NA
		03/25/96	1.27	0.00	1.27	33.16	NA
		04/22/96	1.40	0.00	1.40	33.03	NA
		05/28/96	1.45	0.00	1.45	32.98	NA
		06/24/96	2.39	0.00	2.39	32.04	NA
		07/22/96	3.35	0.00	3.35	31.08	NA
		08/26/96	4.10	0.00	4.10	30.33	NA
		09/23/96	4.35	0.00	4.35	30.08	NA
		10/28/96	3.12	0.02	3.14	31.31	NA
		11/25/96	2.35	0.00	2.35	32.08	0.00
		01/29/97	NP	0.00	1.55	32.88	0.00
		04/21/97	NP	0.00	1.34	33.09	0.00
						SPH Recovered to Date:	**0.00**
						Chevron total SPH Recovered to Date:	**25.12**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX				
MW-1	35.43	04/24/95	NA	0.00	3.55	31.88	NA
		07/24/95	NA	0.00	6.26	29.17	NA
		10/23/95	NA	0.00	5.85	29.58	NA
		01/22/96	NA	0.00	2.92	32.51	NA
		04/22/96	NA	0.00	4.01	31.42	NA
		07/22/96	NA	0.00	6.92	28.51	NA
		10/28/96	NA	0.00	5.35	30.08	NA
		01/30/97	NP	0.00	3.92	31.51	0.00
		04/21/97	NP	0.00	3.63	31.80	0.00
						SPH Recovered to Date:	**0.00**
MW-2	35.77	01/30/97	NP	0.00	4.88	30.89	0.00
		04/21/97	NP	0.00	5.41	30.36	0.00
						SPH Recovered to Date:	**0.00**
MW-3	36.02	03/06/95	NA	0.00	6.79	29.23	NA
		03/27/95	NA	0.00	6.65	29.37	NA
		04/24/95	NA	0.00	6.98	29.04	NA
		07/24/95	NA	0.00	8.63	27.39	NA
		10/23/95	NA	0.00	9.62	26.40	NA
		01/22/96	8.96	0.00	8.96	27.06	NA
		04/22/96	NA	0.00	6.34	29.68	NA
		07/22/96	NA	0.00	8.47	27.55	NA
		10/28/96	NA	0.00	8.70	27.32	NA
		01/30/97	NP	0.00	6.40	29.62	0.00
		04/21/97	NP	0.00	6.93	29.09	0.00
						SPH Recovered to Date:	**0.00**
MW-4	36.39	04/24/95	NA	0.00	6.35	30.04	NA
		07/24/95	NA	0.00	8.17	28.22	NA
		10/23/95	NA	0.00	9.16	27.23	NA
		01/22/96	NA	0.00	5.20	31.19	NA
		04/22/96	NA	0.00	5.59	30.80	NA
		07/22/96	NA	0.00	7.97	28.42	NA
		10/28/96	NA	0.00	8.14	28.25	NA
		11/25/96	NA	0.00	6.10	30.29	NA
		01/30/97	NP	0.00	5.40	30.99	0.00
		04/21/97	NP	0.00	6.29	30.10	0.00
						SPH Recovered to Date:	**0.00**
MW-5	33.52	03/27/95	NP	0.00	3.55	29.97	0.00
		04/24/95	NA	0.00	5.29	28.23	NA
		07/24/95	NA	0.00	7.12	26.40	NA
		10/23/95	NA	0.00	8.56	24.96	NA
		01/22/96	NA	0.00	4.32	29.20	NA
		04/22/96	NA	0.00	4.73	28.79	NA
		07/22/96	NA	0.00	6.98	26.54	NA
		10/28/96	NA	0.00	7.60	25.92	NA
		12/23/96	NA	0.00	2.35	31.17	NA
		01/30/97	NP	0.00	5.01	28.51	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-5	33.52	04/21/97	NP	0.00	5.07	28.45	0.00
						SPH Recovered to Date:	**0.00**
MW-6	33.34	03/06/95	3.34	0.20	3.54	29.97	NA
		03/27/95	3.05	0.68	3.73	30.19	NA
		04/24/95	3.29	0.89	4.18	29.92	NA
		05/22/95	3.80	0.03	3.83	29.54	1.50
		06/19/95	4.64	0.00	4.64	28.70	1.34
		07/24/95	5.15	0.00	5.15	28.19	NA
		08/28/95	5.90	0.00	5.90	27.44	NA
		09/25/95	6.50	0.00	6.50	26.84	NA
		10/23/95	6.22	0.00	6.22	27.12	NA
		11/27/95	4.37	0.00	4.37	28.97	NA
		12/29/95	3.76	0.19	3.95	29.55	NA
		01/22/96	2.50	0.35	2.85	30.79	NA
		02/26/96	2.07	0.01	2.08	31.27	NA
		03/25/96	3.34	0.00	3.34	30.00	0.18
		04/22/96	3.18	0.00	3.18	30.16	NA
		05/28/96	3.23	0.00	3.23	30.11	0.06
		06/24/96	4.35	0.00	4.35	28.99	NA
		07/22/96	5.08	0.00	5.08	28.26	NA
		08/26/96	5.89	0.00	5.89	27.45	NA
		09/23/96	5.54	0.00	5.54	27.80	NA
		10/28/96	5.19	0.00	5.19	28.15	NA
		11/25/96	3.28	0.00	3.28	30.06	NA
		12/23/96	2.98	0.43	3.41	30.30	NA
		01/30/97	NP	0.00	2.77	30.57	0.00
		04/21/97	NP	0.00	3.25	30.09	0.00
						SPH Recovered to Date:	**3.08**
MW-7	34.12	03/06/95	7.96	0.04	8.00	26.15	NA
		03/27/95	7.88	0.06	7.94	26.23	NA
		04/24/95	8.18	0.00	8.18	25.94	NA
		05/22/95	8.51	0.34	8.85	25.56	NA
		06/19/95	8.93	0.39	9.32	25.13	NA
		07/24/95	9.35	0.15	9.50	24.75	0.06
		08/28/95	9.79	0.21	10.00	24.30	NA
		09/25/95	10.13	0.38	10.51	23.93	NA
		10/23/95	7.04	0.43	7.47	27.02	NA
		11/27/95	9.00	0.00	9.00	25.12	NA
		12/29/95	8.13	0.03	8.16	25.99	0.37
		01/22/96	7.44	0.00	7.44	26.68	0.08
		02/26/96	6.20	0.00	6.20	27.92	NA
		03/25/96	7.50	0.20	7.70	26.59	NA
		04/22/96	7.84	0.11	7.95	26.26	0.12
		05/28/96	7.70	0.10	7.80	26.41	0.12
		06/24/96	8.36	0.12	8.48	25.74	0.37
		07/22/96	8.98	0.30	9.28	25.09	NA
		08/26/96	9.52	0.30	9.82	24.56	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-7	34.12	09/23/96	9.55	0.38	9.93	24.51	NA
		10/28/96	9.30	0.48	9.78	24.75	NA
		11/25/96	8.23	0.68	8.91	25.79	NA
		12/23/96	7.52	1.98	9.50	26.30	NA
		01/30/97	7.13	3.11	10.24	26.52	70.00
		04/21/97	7.91	1.81	9.72	25.94	57.00
						SPH Recovered to Date:	**128.12**
MW-8	33.95	04/24/95	NA	0.00	7.27	26.68	NA
		07/24/95	NA	0.00	8.53	25.42	NA
		10/23/95	NA	0.00	9.45	24.50	NA
		01/22/96	NA	0.00	6.45	27.50	NA
		04/22/96	NA	0.00	6.99	26.96	NA
		07/22/96	NA	0.00	8.30	25.65	NA
		10/28/96	NA	0.00	8.76	25.19	NA
		01/30/97	NP	0.00	6.38	27.57	0.00
		04/21/97	NP	0.00	7.07	26.88	0.00
						SPH Recovered to Date:	**0.00**
MW-9	36.53	04/24/95	NA	0.00	9.67	26.86	NA
		07/24/95	NA	0.00	10.85	25.68	NA
		10/23/95	NA	0.00	11.86	24.67	NA
		01/22/96	NA	0.00	9.57	26.96	NA
		04/22/96	NA	0.00	9.47	27.06	NA
		07/22/96	NA	0.00	10.34	26.19	NA
		10/28/96	NA	0.00	11.32	25.21	NA
		01/30/97	NP	0.00	894.00	0.00	0.00
		04/21/97	9.51	0.01	9.52	27.02	0.10
						SPH Recovered to Date:	**0.10**
MW-10	35.82	04/24/95	NA	0.00	8.54	27.28	NA
		07/24/95	NA	0.00	10.25	25.57	NA
		10/23/95	NA	0.00	11.20	24.62	NA
		01/22/96	NA	0.00	7.31	28.51	NA
		04/22/96	NA	0.00	8.09	27.73	NA
		07/22/96	NA	0.00	9.87	25.95	NA
		10/28/96	NA	0.00	10.22	25.60	NA
		01/30/97	NP	0.00	7.40	28.42	0.00
		04/21/97	NP	0.00	8.40	27.42	0.00
						SPH Recovered to Date:	**0.00**
MW-11	36.47	03/06/95	NA	0.00	5.09	31.38	NA
		03/27/95	5.25	0.00	5.25	31.22	NA
		04/24/95	5.36	0.00	5.36	31.11	NA
		05/22/95	6.11	0.00	6.11	30.36	NA
		06/19/95	6.52	0.00	6.52	29.95	NA
		07/24/95	7.10	0.00	7.10	29.37	NA
		08/28/95	8.00	0.00	8.00	28.47	NA
		09/25/95	8.12	0.00	8.12	28.35	NA
		10/23/95	7.39	0.00	7.39	29.08	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-11	36.47	11/27/95	5.25	0.00	5.25	31.22	NA
		12/29/95	5.65	0.00	5.65	30.82	NA
		01/22/96	4.50	0.00	4.50	31.97	NA
		01/30/96	NP	0.00	5.20	31.27	0.00
		02/26/96	3.69	0.00	3.69	32.78	NA
		03/25/96	5.50	0.00	5.50	30.97	NA
		04/22/96	5.15	0.00	5.15	31.32	NA
		05/28/96	5.29	0.00	5.29	31.18	NA
		06/24/96	6.27	0.00	6.27	30.20	NA
		07/22/96	7.04	0.00	7.04	29.43	NA
		08/26/96	7.86	0.00	7.86	28.61	NA
		09/23/96	7.20	0.00	7.20	29.27	NA
		10/28/96	6.33	0.00	6.33	30.14	NA
		11/25/96	4.94	0.00	4.94	31.53	NA
		12/23/96	4.68	3.00	7.68	31.34	NA
		01/30/97	NP	0.00	5.20	31.27	0.00
		04/21/97	NP	0.00	5.41	31.06	0.00
						SPH Recovered to Date:	**0.00**
MW-12	35.95	04/24/95	NA	0.00	5.22	30.73	NA
		07/24/95	NA	0.00	7.30	28.65	NA
		10/23/95	NA	0.00	8.33	27.62	NA
		01/22/96	NA	0.00	3.83	32.12	NA
		04/22/96	NA	0.00	4.34	31.61	NA
		07/22/96	NA	0.00	7.15	28.80	NA
		10/28/96	NA	0.00	7.37	28.58	NA
		01/30/97	NP	0.00	4.26	31.69	0.00
		04/21/97	NP	0.00	5.05	30.90	0.00
						SPH Recovered to Date:	**0.00**
MW-13	37.89	04/24/95	NA	0.00	4.41	33.48	NA
		07/24/95	NA	0.00	6.29	31.60	NA
		10/23/95	NA	0.00	6.67	31.22	NA
		01/22/96	NA	0.00	3.65	34.24	NA
		04/22/96	NA	0.00	4.18	33.71	NA
		07/22/96	NA	0.00	6.28	31.61	NA
		10/28/96	NA	0.00	5.61	32.28	NA
		01/30/97	NP	0.00	4.22	33.67	0.00
		04/21/97	NP	0.00	4.28	33.61	0.00
						SPH Recovered to Date:	**0.00**
MW-14	36.28	04/24/95	NA	0.00	3.33	32.95	NA
		07/24/95	NA	0.00	5.62	30.66	NA
		10/23/95	NA	0.00	5.96	30.32	NA
		01/22/96	NA	0.00	2.71	33.57	NA
		04/22/96	NA	0.00	3.25	33.03	NA
		07/22/96	NA	0.00	5.68	30.60	NA
		10/28/96	NA	0.00	5.30	30.98	NA
		01/30/97	NP	0.00	3.28	33.00	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-14	36.28	04/21/97	NP	0.00	3.29	32.99	0.00
						SPH Recovered to Date:	**0.00**
MW-15	37.50	01/30/97	NP	0.00	3.28	34.22	0.00
		04/21/97	NP	0.00	4.85	32.65	0.00
						SPH Recovered to Date:	**0.00**
MW-16	34.93	07/24/95	NA	0.00	5.78	29.15	NA
		10/23/95	NA	0.00	6.73	28.20	NA
		01/22/96	NA	0.00	2.44	32.49	NA
		04/22/96	NA	0.00	3.46	31.47	NA
		07/22/96	NA	0.00	5.63	29.30	NA
		10/28/96	NA	0.00	5.90	29.03	NA
		01/30/97	NP	0.00	3.15	31.78	0.00
		04/21/97	NP	0.00	3.44	31.49	0.00
						SPH Recovered to Date:	**0.00**
MW-17	36.05	01/30/97	NP	0.00	4.27	31.78	0.00
		04/21/97	NP	0.00	4.39	31.66	0.00
						SPH Recovered to Date:	**0.00**
MW-18	33.76	04/24/95	NA	0.00	1.66	32.10	NA
		07/24/95	NA	0.00	3.02	30.74	NA
		10/23/95	NA	0.00	3.43	30.33	NA
		01/22/96	NA	0.00	1.08	32.68	NA
		04/22/96	NA	0.00	0.89	32.87	NA
		07/22/96	NA	0.00	2.83	30.93	NA
		10/28/96	NA	0.00	2.48	31.28	NA
		01/30/97	NP	0.00	1.24	32.52	0.00
		04/21/97	NP	0.00	1.23	32.53	0.00
						SPH Recovered to Date:	**0.00**
MW-19	33.39	03/06/95	2.77	0.49	3.26	30.55	NA
		03/27/95	2.57	0.51	3.08	30.74	NA
		04/24/95	2.79	0.54	3.33	30.52	NA
		05/22/95	3.19	0.51	3.70	30.12	NA
		06/19/95	3.87	0.61	4.48	29.43	NA
		07/24/95	4.41	0.01	4.42	28.98	0.31
		08/28/95	5.64	0.00	5.64	27.75	0.03
		09/25/95	6.80	0.00	6.80	26.59	NA
		10/23/95	5.48	0.00	5.48	27.91	NA
		11/27/95	3.79	0.00	3.79	29.60	NA
		12/29/95	3.23	0.00	3.23	30.16	NA
		01/22/96	2.18	0.00	2.18	31.21	NA
		02/26/96	1.57	0.00	1.57	31.82	NA
		03/25/96	2.56	0.00	2.56	30.83	NA
		04/22/96	1.77	0.00	1.77	31.62	NA
		05/28/96	2.11	0.00	2.11	31.28	NA
		06/24/96	2.93	0.00	2.93	30.46	NA
		07/22/96	3.61	0.00	3.61	29.78	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-19	33.39	08/26/96	4.31	0.00	4.31	29.08	NA
		09/23/96	3.65	0.00	3.65	29.74	NA
		10/28/96	1.95	0.00	1.95	31.44	NA
		11/25/96	1.63	0.00	1.63	31.76	NA
		12/23/96	1.86	0.00	1.86	31.53	NA
		01/30/97	NP	0.00	1.86	31.53	0.00
		04/21/97	NP	0.00	2.23	31.16	0.00
						SPH Recovered to Date:	**0.34**
MW-20	34.76	04/24/95	NA	0.00	9.55	25.21	NA
		07/24/95	NA	0.00	10.73	24.03	NA
		10/23/95	NA	0.00	11.35	23.41	NA
		01/22/96	NA	0.00	8.50	26.26	NA
		04/22/96	NA	0.00	9.53	25.23	NA
		07/22/96	NA	0.00	10.41	24.35	NA
		09/23/96	11.08	0.00	11.08	23.68	NA
		10/28/96	NA	0.00	10.74	24.02	NA
		11/25/96	NA	0.00	9.19	25.57	NA
		12/23/96	NA	0.00	9.05	25.71	NA
		01/30/97	NP	0.00	8.03	26.73	0.00
		04/21/97	NP	0.00	9.35	25.41	0.00
						SPH Recovered to Date:	**0.00**
MW-21	34.33	04/24/95	NA	0.00	1.48	32.85	NA
		07/24/95	NA	0.00	2.21	32.12	NA
		10/23/95	NA	0.00	2.04	32.29	NA
		01/22/96	NA	0.00	1.08	33.25	NA
		04/22/96	NA	0.00	0.78	33.55	NA
		07/22/96	NA	0.00	2.24	32.09	NA
		10/28/96	NA	0.00	1.97	32.36	NA
		01/30/97	NP	0.00	1.15	33.18	0.00
		04/21/97	NP	0.00	1.13	33.20	0.00
						SPH Recovered to Date:	**0.00**
MW-22	35.65	03/06/95	NA	0.00	3.32	32.33	NA
		03/27/95	3.23	0.00	3.23	32.42	NA
		04/24/95	3.25	0.00	3.25	32.40	NA
		05/22/95	3.93	0.00	3.93	31.72	NA
		06/19/95	4.34	0.00	4.34	31.31	NA
		07/24/95	4.83	0.00	4.83	30.82	NA
		08/28/95	5.35	0.00	5.35	30.30	NA
		09/25/95	5.94	0.00	5.94	29.71	NA
		10/23/95	5.24	0.00	5.24	30.41	NA
		11/27/95	4.04	0.00	4.04	31.61	NA
		12/28/95	3.26	0.00	3.26	32.39	NA
		01/22/96	2.77	0.00	2.77	32.88	NA
		02/26/96	2.42	0.00	2.42	33.23	NA
		03/25/96	3.47	0.00	3.47	32.18	NA
		04/22/96	3.32	0.00	3.32	32.33	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-22	35.65	05/28/96	3.06	0.00	3.06	32.59	NA
		06/24/96	3.93	0.00	3.93	31.72	NA
		07/22/96	4.55	0.00	4.55	31.10	NA
		08/26/96	6.85	0.00	6.85	28.80	NA
		09/23/96	5.66	0.00	5.66	29.99	NA
		10/28/96	4.80	0.00	4.80	30.85	NA
		11/25/96	3.96	0.00	3.96	31.69	NA
		12/23/96	3.20	0.00	3.20	32.45	NA
		01/30/97	NP	0.00	3.72	31.93	0.00
		04/21/97	NP	0.00	3.27	32.38	0.00
						SPH Recovered to Date:	**0.00**
MW-23	36.06	03/27/95	9.42	0.00	9.42	26.64	NA
		04/24/95	3.97	0.00	3.97	32.09	NA
		05/22/95	4.50	0.00	4.50	31.56	NA
		06/26/95	4.75	0.00	4.75	31.31	NA
		07/24/95	5.07	0.00	5.07	30.99	NA
		08/28/95	5.44	0.11	5.55	30.60	NA
		10/23/95	5.15	0.00	5.15	30.91	NA
		11/27/95	3.56	0.00	3.56	32.50	NA
		12/28/95	4.27	0.00	4.27	31.79	NA
		01/22/96	NA	0.00	3.49	32.57	NA
		02/26/96	3.59	0.00	3.59	32.47	NA
		03/25/96	4.24	0.00	4.24	31.82	NA
		04/22/96	3.23	0.00	3.23	32.83	NA
		05/28/96	3.97	0.00	3.97	32.09	NA
		06/24/96	4.46	0.00	4.46	31.60	NA
		07/22/96	5.02	0.03	5.05	31.04	NA
		08/28/96	5.80	0.00	5.80	30.26	NA
		09/23/96	5.30	0.06	5.36	30.75	NA
		09/25/96	5.78	0.22	6.00	30.25	NA
		10/28/96	4.73	0.00	4.73	31.33	NA
		11/25/96	3.75	0.00	3.75	32.31	NA
		12/23/96	3.68	0.00	3.68	32.38	NA
		01/30/97	NP	0.00	3.46	32.60	0.00
		04/21/97	NP	0.00	3.89	32.17	0.00
						SPH Recovered to Date:	**0.00**
MW-24	35.15	03/06/95	4.15	0.83	4.98	30.88	NA
		04/24/95	5.31	0.94	4.37	31.58	NA
		05/22/95	4.96	0.01	4.95	30.21	NA
		06/26/95	6.50	1.90	8.40	28.36	NA
		07/24/95	7.25	0.24	7.49	27.86	NA
		08/28/95	8.42	1.58	10.00	26.49	NA
		12/01/95	NM	0.00	NM	0.00	28.10
		03/27/96	4.28	0.90	5.18	30.74	NA
		12/01/96	NM	0.00	NM	0.00	1.20
		01/30/97	NP	0.00	5.10	30.05	0.00
		04/21/97	NP	0.00	4.89	30.26	0.00

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
						SPH Recovered to Date:	**29.30**
MW-25	34.73	04/22/96	10.00	0.24	10.24	24.69	NA
		09/23/96	11.69	0.00	11.69	23.04	NA
		10/28/96	NA	0.00	11.22	23.51	NA
		11/25/96	NA	0.00	9.95	24.78	NA
		12/23/96	NA	0.00	9.72	25.01	NA
		01/30/97	NP	0.00	9.37	25.36	0.00
		04/21/97	9.90	0.01	9.91	24.83	0.10
						SPH Recovered to Date:	**0.10**
MW-26	34.78	07/22/96	11.39	0.43	11.82	23.33	NA
		09/11/96	10.00	0.24	10.24	24.74	NA
		09/23/96	11.85	0.25	12.10	22.89	NA
		10/28/96	11.38	0.03	11.41	23.40	NA
		11/25/96	10.36	0.00	10.36	24.42	NA
		12/23/96	10.39	0.00	10.39	24.39	NA
		01/30/97	NP	0.00	10.35	24.43	0.00
		04/21/97	-	0.00	10.32	24.46	0.10
						SPH Recovered to Date:	**0.10**
MW-27	35.67	02/26/96	3.94	0.00	3.94	31.73	NA
		03/25/96	4.73	0.00	4.73	30.94	NA
		04/22/96	3.71	0.00	3.71	31.96	NA
		05/28/96	4.54	0.00	4.54	31.13	NA
		06/24/96	5.34	0.00	5.34	30.33	NA
		07/22/96	5.73	0.00	5.73	29.94	NA
		08/26/96	5.96	0.00	5.96	29.71	NA
		09/23/96	6.81	0.00	6.81	28.86	NA
		10/28/96	5.35	0.00	5.35	30.32	NA
		11/25/96	3.34	0.00	3.34	32.33	NA
		12/23/96	4.04	0.00	4.04	31.63	NA
		01/30/97	NP	0.00	4.37	31.30	0.00
		04/21/97	NP	0.00	4.44	31.23	0.00
						SPH Recovered to Date:	**0.00**
MW-28	34.39	03/06/95	NA	0.00	4.41	29.98	NA
		03/27/95	4.74	0.01	4.75	29.65	NA
		04/24/95	5.26	0.00	5.26	29.13	NA
		05/22/95	6.00	0.02	6.02	28.39	NA
		06/26/95	6.50	0.09	6.59	27.88	NA
		07/24/95	6.94	0.00	6.94	27.45	NA
		08/28/95	8.04	0.01	8.05	26.35	0.75
		10/23/95	7.60	0.00	7.60	26.79	NA
		11/27/95	4.04	0.00	4.04	30.35	0.03
		12/28/95	4.25	0.00	4.25	30.14	NA
		01/22/96	2.29	0.00	2.29	32.10	NA
		02/26/96	3.78	0.00	3.78	30.61	NA
		03/25/96	5.10	0.00	5.10	29.29	NA
		04/22/96	4.22	0.00	4.22	30.17	NA

COPPOR00005477

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-28	34.39	05/28/96	4.66	0.00	4.66	29.73	NA
		06/24/96	6.01	0.00	6.01	28.38	NA
		07/22/96	6.77	0.00	6.77	27.62	NA
		08/28/96	7.56	0.00	7.56	26.83	NA
		09/23/96	6.28	0.00	6.28	28.11	NA
		09/25/96	11.75	0.00	11.75	22.64	1.03
		10/28/96	5.03	0.00	5.03	29.36	NA
		11/25/96	2.50	0.00	2.50	31.89	NA
		12/23/96	4.38	0.01	4.39	30.01	NA
		01/30/97	NP	0.00	3.71	30.68	0.00
		04/21/97	4.72	0.03	4.75	29.67	0.50
						SPH Recovered to Date:	**2.31**
MW-29	35.77	04/24/95	NA	0.00	13.34	22.43	NA
		07/24/95	NA	0.00	14.20	21.57	NA
		10/23/95	NA	0.00	14.86	20.91	NA
		01/22/96	NA	0.00	12.70	23.07	NA
		04/22/96	NA	0.00	12.75	23.02	NA
		07/22/96	NA	0.00	13.64	22.13	NA
		10/28/96	NA	0.00	14.15	21.62	NA
		01/30/97	NP	0.00	13.41	22.36	0.00
		04/21/97	NP	0.00	12.89	22.88	0.00
						SPH Recovered to Date:	**0.00**
MW-30	36.39	01/30/97	NP	0.00	4.43	31.96	0.00
		04/21/97	NP	0.00	4.65	31.74	0.00
						SPH Recovered to Date:	**0.00**
MW-31	37.55	03/06/95	NA	0.00	5.64	31.91	NA
		03/27/95	5.75	0.01	5.76	31.80	NA
		04/24/95	6.09	0.00	6.09	31.46	NA
		05/22/95	6.70	0.00	6.70	30.85	NA
		06/26/95	7.26	0.00	7.26	30.29	NA
		07/24/95	7.74	0.00	7.74	29.81	NA
		08/28/95	8.41	0.00	8.41	29.14	NA
		10/23/95	8.56	0.00	8.56	28.99	NA
		11/27/95	6.33	0.00	6.33	31.22	NA
		12/28/95	5.90	0.00	5.90	31.65	NA
		01/22/96	4.62	0.00	4.62	32.93	NA
		02/26/96	4.92	0.00	4.92	32.63	NA
		03/25/96	6.02	0.00	6.02	31.53	NA
		04/22/96	5.57	0.00	5.57	31.98	NA
		05/28/96	5.73	0.00	5.73	31.82	NA
		06/24/96	6.72	0.00	6.72	30.83	NA
		07/22/96	7.38	0.00	7.38	30.17	NA
		08/28/96	8.02	0.00	8.02	29.53	NA
		09/23/96	7.48	0.00	7.48	30.07	NA
		09/25/96	8.96	0.00	8.96	28.59	NA
		10/28/96	6.68	0.00	6.68	30.87	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-31	37.55	11/25/96	4.92	0.00	4.92	32.63	NA
		12/23/96	5.08	0.00	5.08	32.47	NA
		01/30/97	NP	0.00	5.45	32.10	0.00
		04/21/97	NP	0.00	5.73	31.82	0.00
						SPH Recovered to Date:	**0.00**
MW-32	37.01	04/24/95	NA	0.00	4.27	32.74	NA
		07/24/95	NA	0.00	5.75	31.26	NA
		10/23/95	NA	0.00	6.40	30.61	NA
		04/22/96	NA	0.00	3.89	33.12	NA
		07/22/96	NA	0.00	5.45	31.56	NA
		10/28/96	NA	0.00	5.59	31.42	NA
		01/30/97	NP	0.00	4.37	32.64	0.00
		04/21/97	NP	0.00	4.02	32.99	0.00
						SPH Recovered to Date:	**0.00**
MW-33	39.34	04/24/95	NA	0.00	19.93	19.41	NA
		07/24/95	NA	0.00	20.68	18.66	NA
		10/23/95	NA	0.00	21.05	18.29	NA
		01/22/96	NA	0.00	19.07	20.27	NA
		04/22/96	NA	0.00	19.48	19.86	NA
		07/22/96	NA	0.00	20.26	19.08	NA
		10/28/96	NA	0.00	20.58	18.76	NA
		01/30/97	NP	0.00	18.92	20.42	0.00
		04/21/97	NP	0.00	19.61	19.73	0.00
						SPH Recovered to Date:	**0.00**
MW-34	39.67	04/24/95	NA	0.00	19.40	20.27	NA
		07/24/95	NA	0.00	19.99	19.68	NA
		10/23/95	NA	0.00	20.26	19.41	NA
		01/22/96	NA	0.00	18.71	20.96	NA
		04/22/96	NA	0.00	19.43	20.24	NA
		07/22/96	NA	0.00	19.74	19.93	NA
		10/28/96	NA	0.00	20.18	19.49	NA
	33.39	01/30/97	NP	0.00	18.78	14.61	0.00
	39.67	04/21/97	NP	0.00	19.41	20.26	0.00
						SPH Recovered to Date:	**0.00**
MW-35	33.39	01/30/97	NP	0.00	2.08	31.31	0.00
		04/21/97	NP	0.00	2.58	30.81	0.00
						SPH Recovered to Date:	**0.00**
MW-36	34.88	04/24/95	NA	0.00	19.40	15.48	NA
		07/24/95	NA	0.00	19.99	14.89	NA
		10/23/95	NA	0.00	20.26	14.62	NA
		01/22/96	NA	0.00	13.74	21.14	NA
		04/22/96	NA	0.00	13.72	21.16	NA
		07/22/96	NA	0.00	14.90	19.98	NA
		10/28/96	NA	0.00	15.54	19.34	NA
		01/30/97	NP	0.00	13.02	21.86	0.00

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-36	34.88	04/21/97	NP	0.00	13.98	20.90	0.00
						SPH Recovered to Date:	**0.00**
MW-37	34.86	04/24/95	NA	0.00	14.96	19.90	NA
		07/24/95	NA	0.00	15.88	18.98	NA
		10/23/95	NA	0.00	16.37	18.49	NA
		01/22/96	NA	0.00	14.22	20.64	NA
		04/22/96	NA	0.00	13.72	21.14	NA
		07/22/96	NA	0.00	15.28	19.58	NA
		10/28/96	NA	0.00	15.80	19.06	NA
		01/30/97	NP	0.00	13.44	21.42	NA
		04/21/97	NP	0.00	14.48	20.38	NA
						SPH Recovered to Date:	**0.00**
MW-38	34.86	01/30/97	NP	0.00	3.98	30.88	0.00
		04/21/97	NP	0.00	4.84	30.02	0.00
						SPH Recovered to Date:	**0.00**
MW-39	35.02	06/24/96	13.01	0.00	13.01	22.01	NA
		07/22/96	13.45	0.00	13.45	21.57	NA
		08/26/96	13.90	0.00	13.90	21.12	NA
		09/23/96	14.08	0.00	14.08	20.94	NA
		10/28/96	14.00	0.00	14.00	21.02	NA
		11/25/96	13.54	0.00	13.54	21.48	NA
		12/23/96	12.77	0.00	12.77	22.25	NA
		01/30/97	NM	0.00	NM	0.00	0.00
		04/21/97	NM	0.00	NM	0.00	0.00
						SPH Recovered to Date:	**0.00**
MW-40	33.65	06/24/96	13.81	0.00	13.81	19.84	NA
		07/22/96	14.32	0.00	14.32	19.33	NA
		08/26/96	14.77	0.00	14.77	18.88	NA
		09/23/96	14.83	0.00	14.83	18.82	NA
		10/28/96	14.63	0.00	14.63	19.02	NA
		11/25/96	13.78	0.00	13.78	19.87	NA
		12/23/96	13.37	0.00	13.37	20.28	NA
		01/30/97	NP	0.00	12.74	20.91	0.00
		04/21/97	NP	0.00	13.65	20.00	0.00
						SPH Recovered to Date:	**0.00**
						GATX total SPH Recovered to Date:	**163.45**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco				
B-1	34.79	04/24/95	17.42	0.49	17.91	17.30	NA
		05/22/95	17.57	0.47	18.04	17.15	NA
		06/26/95	17.75	0.48	18.23	16.97	NA
		07/24/95	17.98	0.02	18.00	16.81	0.00
		08/28/95	18.32	0.02	18.34	16.47	NA
		09/25/95	18.37	0.14	18.51	16.40	NA
		10/23/95	18.30	0.01	18.31	16.49	NA
		11/27/95	17.94	0.03	17.97	16.85	0.01
		12/28/95	16.75	0.16	16.91	18.02	0.85
		01/22/96	16.73	0.12	16.85	18.04	0.01
		02/26/96	13.40	0.02	13.42	21.39	0.08
		04/22/96	16.20	0.15	16.35	18.57	0.01
		05/28/96	16.21	0.00	16.21	18.58	NA
		06/24/96	16.68	0.01	16.69	18.11	NA
		07/22/96	17.20	0.02	17.22	17.59	NA
		08/23/96	17.49	0.03	17.52	17.30	NA
		09/23/96	17.72	0.01	17.73	17.07	NA
		10/28/96	17.18	0.01	17.19	17.61	NA
		01/31/97	15.94	0.16	16.10	18.83	NA
		04/21/97	16.87	0.12	16.99	17.90	NA
						SPH Recovered to Date:	**0.96**
B-2	35.35	03/28/95	NA	0.00	16.84	18.51	NA
		04/24/95	NA	0.00	17.02	18.33	NA
		05/22/95	NA	0.00	17.22	18.13	NA
		06/26/95	NA	0.00	17.48	17.87	NA
		08/28/95	19.58	0.26	19.84	15.73	NA
		09/25/95	NA	0.00	18.18	17.17	NA
		10/23/95	NA	0.00	18.15	17.20	NA
		12/28/95	NA	0.00	16.56	18.79	NA
		01/22/96	16.48	0.02	16.50	18.87	NA
		04/22/96	NA	0.00	16.28	19.07	NA
		05/28/96	NA	0.00	16.14	19.21	NA
		06/24/96	NA	0.00	16.50	18.85	NA
		07/22/96	NA	0.00	16.99	18.36	NA
		08/23/96	NA	0.00	17.48	17.87	NA
		09/23/96	NA	0.00	17.50	17.85	NA
		10/28/96	NA	0.00	17.60	17.75	NA
		01/31/97	NP	0.00	15.69	19.66	0.00
		04/21/97	NP	0.00	16.52	18.83	0.00
						SPH Recovered to Date:	**0.00**
B-3	36.79	01/31/97	NP	0.00	17.26	19.53	0.00
		04/21/97	NP	0.00	18.48	18.31	0.00
						SPH Recovered to Date:	**0.00**
B-4	34.79	03/28/95	17.92	0.71	18.63	16.76	NA
		04/24/95	18.01	1.16	19.17	16.61	NA
		05/22/95	18.11	1.13	19.24	16.51	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-4	34.79	06/26/95	18.27	1.01	19.28	16.37	NA
		07/24/95	18.53	0.11	18.64	16.24	0.15
		08/28/95	18.62	0.01	18.63	16.17	NA
		09/25/95	18.82	0.13	18.95	15.95	NA
		10/23/95	18.83	0.02	18.85	15.96	NA
		11/27/95	18.56	0.06	18.62	16.22	0.37
		01/22/96	17.60	0.04	17.64	17.18	0.24
		02/26/96	NA	0.00	13.68	21.11	NA
		04/22/96	16.35	0.09	16.44	18.43	0.02
		05/28/96	16.35	0.07	16.42	18.43	0.02
		08/23/96	18.35	0.00	18.35	16.44	NA
		09/23/96	18.44	0.01	18.45	16.35	NA
		10/28/96	17.56	1.03	18.59	17.08	NA
		01/31/97	17.00	0.26	17.26	17.75	3.25
		04/21/97	NP	0.00	17.71	17.08	0.10
						SPH Recovered to Date:	**4.15**
B-5	34.79	01/22/96	NA	0.00	16.18	18.61	NA
		02/26/96	NA	0.00	14.40	20.39	NA
		05/28/96	NA	0.00	15.59	19.20	NA
		06/24/96	DRY	0.00	DRY	0.00	DRY
		07/22/96	DRY	0.00	DRY	0.00	DRY
		08/23/96	DRY	0.00	DRY	0.00	DRY
		09/23/96	NA	0.00	17.02	17.77	NA
		10/28/96	NA	0.00	17.10	17.69	NA
	34.83	01/31/97	NP	0.00	15.30	19.53	0.00
		04/21/97	NP	0.00	16.08	18.75	0.00
						SPH Recovered to Date:	**0.00**
B-6	35.41	01/22/96	NP	0.00	16.44	18.97	NA
		02/26/96	NP	0.00	15.60	19.81	NA
		04/22/96	NA	0.00	16.15	19.26	NA
		05/28/96	NA	0.00	16.11	19.30	NA
		06/24/96	NA	0.00	16.47	18.94	NA
		07/22/96	NA	0.00	16.91	18.50	NA
		08/23/96	NA	0.00	17.99	17.42	NA
		09/23/96	NA	0.00	17.45	17.96	NA
		10/28/96	NA	0.00	17.34	18.07	NA
		01/31/97	NP	0.00	15.47	19.94	0.00
		04/21/97	NP	0.00	16.31	19.10	0.00
						SPH Recovered to Date:	**0.00**
B-16	35.82	03/24/95	NA	0.00	16.99	18.83	NA
		04/24/95	NA	0.00	17.12	18.70	NA
		05/22/95	NA	0.00	17.37	18.45	NA
		06/19/95	NA	0.00	17.59	18.23	NA
		07/24/95	NA	0.00	17.89	17.93	NA
		08/28/95	NA	0.00	18.10	17.72	NA
		09/25/95	NA	0.00	18.35	17.47	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-16	35.82	10/23/95	NA	0.00	18.30	17.52	NA
		11/27/95	NA	0.00	17.90	17.92	NA
		01/22/96	0.00	16.75	16.75	33.31	NA
		02/26/96	NA	0.00	13.30	22.52	NA
		04/22/96	NA	0.00	16.04	19.78	NA
		05/28/96	NA	0.00	16.39	19.43	NA
		06/24/96	NA	0.00	16.71	19.11	NA
		07/22/96	NA	0.00	17.19	18.63	NA
		09/23/96	NA	0.00	17.76	18.06	NA
		10/28/96	NA	0.00	17.82	18.00	NA
		01/31/97	NP	0.00	15.75	20.07	0.00
		04/21/97	NP	0.00	16.65	19.17	0.00
						SPH Recovered to Date:	**0.00**
B-17	35.59	03/28/95	16.95	0.00	16.95	18.64	NA
		04/24/95	NA	0.00	17.15	18.44	NA
		05/22/95	17.36	0.00	17.36	18.23	NA
		06/26/95	17.61	0.00	17.61	17.98	NA
		07/24/95	17.79	0.01	17.80	17.80	NA
		08/28/95	18.78	0.01	18.79	16.81	NA
		09/25/95	NA	0.00	18.23	17.36	NA
		10/23/95	NA	0.00	18.21	17.38	NA
		11/27/95	17.85	0.00	17.85	17.74	NA
		12/28/95	NA	0.00	16.85	18.74	NA
		01/22/96	NA	0.00	16.78	18.81	NA
		02/26/96	13.35	0.01	13.36	22.24	NA
		04/22/96	16.44	0.00	16.44	19.15	NA
		05/28/96	16.40	0.00	16.40	19.19	NA
		06/24/96	16.40	0.00	16.40	19.19	NA
		07/22/96	17.16	0.00	17.16	18.43	NA
		08/23/96	17.57	0.00	17.57	18.02	NA
		09/23/96	NA	0.00	17.68	17.91	NA
		10/28/96	NA	0.00	17.75	17.84	NA
		01/31/97	NP	0.00	15.86	19.73	0.00
		04/21/97	NP	0.00	16.66	18.93	0.00
						SPH Recovered to Date:	**0.00**
B-18	35.79	03/28/95	NA	0.00	19.28	16.51	NA
		04/24/95	NA	0.00	19.38	16.41	NA
		05/22/95	NA	0.00	19.44	16.35	NA
		06/26/95	NA	0.00	19.56	16.23	NA
		07/24/95	NA	0.00	19.74	16.05	NA
		08/28/95	NA	0.00	19.43	16.36	NA
		09/25/95	NA	0.00	20.02	15.77	NA
		10/23/95	NA	0.00	20.08	15.71	NA
		12/28/95	NA	0.00	18.66	17.13	NA
		01/22/96	0.00	18.20	18.20	33.06	NA
		02/26/96	0.00	18.38	18.38	33.03	NA
		04/22/96	NA	0.00	18.50	17.29	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-18	35.79	05/28/96	NA	0.00	17.84	17.95	NA
		06/24/96	NA	0.00	18.35	17.44	NA
		07/22/96	NA	0.00	18.97	16.82	NA
		08/23/96	NA	0.00	17.50	18.29	NA
		09/23/96	NA	0.00	19.43	16.36	NA
		10/28/96	NA	0.00	19.47	16.32	NA
		01/31/97	NP	0.00	18.09	17.70	0.00
		04/21/97	NP	0.00	18.94	16.85	0.00
						SPH Recovered to Date:	**0.00**
B-22	35.83	03/28/95	NA	0.00	18.50	17.33	NA
		04/24/95	NA	0.00	19.10	16.73	NA
		05/22/95	NA	0.00	19.09	16.74	NA
		06/26/95	NA	0.00	19.26	16.57	NA
		09/25/95	NA	0.00	20.50	15.33	NA
		10/23/95	NA	0.00	19.96	15.87	NA
		12/28/95	NA	0.00	18.59	17.24	0.02
		01/22/96	NA	0.00	18.88	16.95	NA
		02/26/96	NA	0.00	12.05	23.78	NA
		04/22/96	NA	0.00	17.75	18.08	NA
		05/28/96	NA	0.00	17.31	18.52	NA
		06/24/96	NA	0.00	18.12	17.71	NA
		07/22/96	NA	0.00	19.09	16.74	NA
		08/23/96	NA	0.00	19.03	16.80	NA
		09/23/96	NA	0.00	19.79	16.04	NA
		10/28/96	NA	0.00	19.75	16.08	NA
		01/31/97	17.92	0.01	17.93	17.91	0.10
		04/21/97	NP	0.00	18.67	17.16	0.00
						SPH Recovered to Date:	**0.12**
B-25	37.60	04/21/97	NP	0.00	15.29	22.31	0.00
						SPH Recovered to Date:	**0.00**
B-27	35.74	03/28/95	17.25	0.27	17.52	18.45	NA
		04/24/95	17.70	0.31	18.01	17.99	NA
		05/22/95	17.85	0.32	18.17	17.84	NA
		06/26/95	17.91	1.12	19.03	17.66	NA
		07/24/95	18.11	1.14	19.25	17.46	NA
		08/28/95	18.75	0.50	19.25	16.92	NA
		09/25/95	18.50	1.10	19.60	17.08	NA
		10/23/95	18.59	1.10	19.69	16.99	NA
		11/27/95	18.50	0.30	18.80	17.19	0.80
		01/22/96	17.44	0.43	17.87	18.24	0.78
		02/26/96	13.38	0.31	13.69	22.31	0.25
		04/22/96	16.68	0.27	16.95	19.02	0.12
		08/23/96	18.12	0.56	18.68	17.54	0.31
		09/23/96	18.34	0.36	18.70	17.35	NA
		10/28/96	18.58	0.11	18.69	17.14	NA
		01/31/97	16.43	2.20	18.63	18.98	4.00

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-27	35.74	04/21/97	17.37	0.13	17.50	18.35	0.60
						SPH Recovered to Date:	**6.86**
B-35	33.58	04/24/95	16.10	0.23	16.33	17.45	NA
		05/22/95	16.24	0.19	16.43	17.31	NA
		06/26/95	16.45	0.23	16.68	17.10	NA
		07/24/95	16.65	0.21	16.86	16.90	NA
		08/28/95	17.35	0.17	17.52	16.20	NA
		09/25/95	17.02	0.30	17.32	16.51	NA
		10/23/95	16.94	0.21	17.15	16.61	NA
		11/27/95	16.50	0.06	16.56	17.07	0.08
		12/28/95	15.60	0.01	15.61	17.98	0.02
		01/22/96	15.52	0.05	15.57	18.05	NA
		02/26/96	13.50	0.05	13.55	20.07	NA
		04/22/96	17.78	0.06	17.84	15.79	NA
		05/28/96	15.08	0.00	15.08	18.50	NA
		06/24/96	NA	0.00	15.54	18.04	NA
		07/22/96	NA	0.00	16.06	17.52	NA
		08/23/96	NA	0.00	16.85	16.73	NA
		09/23/96	NA	0.00	16.60	16.98	NA
		10/28/96	16.85	0.06	16.91	16.72	NA
		01/31/97	NP	0.00	14.84	18.74	0.00
		04/21/97	NP	0.00	15.74	17.84	0.00
						SPH Recovered to Date:	**0.10**
B-36	30.97	03/28/95	NA	0.00	14.65	16.32	NA
		04/24/95	NA	0.00	14.95	16.02	NA
		05/22/95	NA	0.00	15.03	15.94	NA
		06/26/95	NA	0.00	15.24	15.73	NA
		07/24/95	NA	0.00	15.47	15.50	NA
		08/28/95	NA	0.00	15.35	15.62	NA
		09/25/95	NA	0.00	15.82	15.15	NA
		10/23/95	NA	0.00	15.60	15.37	NA
		12/28/95	NA	0.00	13.91	17.06	NA
		01/22/96	0.00	13.93	13.93	28.88	NA
		02/26/96	0.00	10.75	10.75	29.36	NA
		04/22/96	NA	0.00	14.10	16.87	NA
		05/28/96	NA	0.00	13.01	17.96	NA
		06/24/96	NA	0.00	13.84	17.13	NA
		07/22/96	NA	0.00	15.01	15.96	NA
		08/23/96	NA	0.00	15.81	15.16	NA
		09/23/96	NA	0.00	15.65	15.32	NA
		10/28/96	NA	0.00	15.55	15.42	NA
		01/31/97	NP	0.00	19.29	11.68	0.00
		04/21/97	NP	0.00	19.98	10.99	0.00
						SPH Recovered to Date:	**0.00**
B-37	35.24	03/28/95	NA	0.00	18.51	16.73	NA
		04/24/95	NA	0.00	19.66	15.58	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-37	35.24	05/22/95	NA	0.00	19.62	15.62	NA
		06/26/95	NA	0.00	19.75	15.49	NA
		07/24/95	NA	0.00	20.08	15.16	NA
		08/28/95	NA	0.00	20.10	15.14	NA
		09/25/95	20.41	0.01	20.42	14.83	NA
		10/23/95	20.44	0.01	20.45	14.80	NA
		11/27/95	19.90	0.00	19.90	15.34	NA
		12/28/95	19.66	0.00	19.66	15.58	NA
		01/22/96	18.20	0.03	18.23	17.04	NA
		02/26/96	NA	0.00	14.15	21.09	NA
		04/22/96	NA	0.00	18.90	16.34	NA
		05/28/96	NA	0.00	17.94	17.30	NA
		06/24/96	NA	0.00	19.13	16.11	NA
		07/22/96	NA	0.00	20.13	15.11	NA
		08/23/96	NA	0.00	20.15	15.09	NA
		09/23/96	NA	0.00	20.76	14.48	NA
		10/28/96	NA	0.00	20.87	14.37	NA
		01/31/97	18.80	0.38	19.18	16.38	2.00
		04/21/97	14.39	5.64	20.03	20.00	NA
						SPH Recovered to Date:	**2.00**
B-38	34.75	03/28/95	18.95	1.95	20.90	15.51	NA
		04/24/95	19.17	1.51	20.68	15.35	NA
		05/22/95	19.13	1.45	20.58	15.40	NA
		06/26/95	19.30	1.16	20.46	15.28	NA
		07/24/95	19.75	0.17	19.92	14.97	0.20
		08/28/95	19.82	0.71	20.53	14.82	NA
		09/25/95	19.99	1.03	21.02	14.61	NA
		10/23/95	20.00	1.03	21.03	14.60	NA
		11/27/95	19.50	0.32	19.82	15.20	0.81
		01/22/96	18.89	0.14	19.03	15.84	0.45
		02/26/96	13.70	0.37	14.07	20.99	1.31
		04/22/96	18.63	0.25	18.88	16.08	NA
		07/22/96	19.59	1.25	20.84	14.97	NA
		08/23/96	18.70	0.03	18.73	16.05	NA
		09/23/96	20.18	0.78	20.96	14.45	NA
		10/28/96	20.18	0.70	20.88	14.47	NA
		01/31/97	18.27	0.97	17.30	18.27	2.00
		04/21/97	18.43	0.10	18.53	16.31	0.60
						SPH Recovered to Date:	**5.37**
B-39	33.92	03/28/95	18.14	0.04	18.18	15.77	NA
		04/24/95	18.31	0.03	18.34	15.61	NA
		05/22/95	18.28	0.03	18.31	15.64	NA
		06/26/95	18.43	0.09	18.52	15.48	NA
		07/24/95	18.73	0.13	18.86	15.17	NA
		08/28/95	18.95	0.11	19.06	14.95	NA
		09/25/95	19.08	0.14	19.22	14.82	NA
		10/23/95	19.09	0.20	19.29	14.80	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-39	33.92	11/27/95	19.55	0.07	19.62	14.36	0.11
		12/28/95	18.05	0.18	18.23	15.84	0.04
		01/22/96	17.03	0.07	17.10	16.88	0.01
		02/26/96	13.54	0.46	14.00	20.31	0.03
		04/22/96	18.65	0.08	18.73	15.26	0.90
		05/28/96	16.64	0.12	16.76	17.26	0.02
		06/24/96	17.67	0.72	18.39	16.14	0.03
		07/22/96	18.68	0.03	18.71	15.24	0.01
		08/23/96	19.18	0.87	20.05	14.61	0.40
		09/23/96	19.42	0.09	19.51	14.49	NA
		10/28/96	19.25	0.04	19.29	14.66	NA
		01/31/97	18.27	0.97	17.30	17.44	2.00
		04/21/97	18.43	0.10	18.53	15.48	0.40
						SPH Recovered to Date:	**3.95**
B-40	33.19	03/28/95	17.55	0.09	17.64	15.63	NA
		04/24/95	17.84	0.12	17.96	15.33	NA
		05/22/95	17.75	0.11	17.86	15.42	NA
		06/26/95	17.95	0.11	18.06	15.22	NA
		08/28/95	18.40	0.01	18.41	14.79	NA
		09/25/95	NA	0.00	18.77	14.42	NA
		10/23/95	18.74	0.01	18.75	14.45	NA
		11/27/95	17.98	0.02	18.00	15.21	NA
		12/28/95	17.23	0.00	17.23	15.96	NA
		01/22/96	NA	0.00	16.40	16.79	NA
		02/26/96	NA	0.00	12.75	20.44	NA
		04/22/96	17.01	0.00	17.01	16.18	NA
		05/28/96	15.78	0.29	16.07	17.37	NA
		06/24/96	16.99	0.15	17.14	16.18	0.23
		07/22/96	18.32	0.12	18.44	14.85	0.01
		08/23/96	18.87	0.06	18.93	14.31	0.02
		09/23/96	19.06	0.06	19.12	14.12	NA
		10/28/96	NA	0.00	19.02	14.17	NA
		01/31/97	16.76	0.54	17.30	16.35	NA
		04/21/97	17.79	0.02	17.81	15.40	0.40
						SPH Recovered to Date:	**0.66**
B-41	34.85	03/28/95	18.80	0.08	18.88	16.04	NA
		04/24/95	18.93	0.06	18.99	15.91	NA
		05/22/95	18.95	0.07	19.02	15.89	NA
		06/26/95	19.11	0.06	19.17	15.73	NA
		08/28/95	18.55	0.70	19.25	16.19	NA
		09/25/95	19.73	0.20	19.93	15.09	NA
		10/23/95	19.70	0.60	20.30	15.06	NA
		11/27/95	18.50	0.15	18.65	16.33	0.23
		01/22/96	17.38	0.04	17.42	17.46	0.18
		02/26/96	13.40	0.41	13.81	21.39	NA
		04/22/96	12.75	0.23	12.98	22.07	NA
		09/23/96	19.38	0.02	19.40	15.47	0.06

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-41	34.85	10/28/96	19.87	0.08	19.95	14.97	NA
		01/31/97	NP	0.00	18.31	16.54	0.00
		04/21/97	18.51	0.03	18.54	16.34	0.20
						SPH Recovered to Date:	**0.67**
IT-E	36.44	01/31/97	18.85	0.62	19.47	17.50	0.50
		04/21/97	19.69	0.63	20.32	16.66	0.30
						SPH Recovered to Date:	**0.80**
IT-W	35.99	01/31/97	NP	0.00	16.65	19.34	0.00
		04/21/97	NP	0.00	17.44	18.55	0.00
						SPH Recovered to Date:	**0.00**
RES-N	38.58	03/28/95	23.14	0.76	23.90	15.33	NA
		04/24/95	23.17	1.74	24.91	15.15	NA
		05/22/95	23.17	0.75	23.92	15.30	NA
		06/26/95	23.26	0.75	24.01	15.21	NA
		08/28/95	23.64	0.68	24.32	14.84	NA
		09/25/95	23.75	0.50	24.25	14.76	NA
		10/23/95	23.80	0.60	24.40	14.69	NA
		11/27/95	23.26	0.60	23.86	15.23	1.59
		12/28/95	22.59	0.02	22.61	15.99	1.21
		01/22/96	20.91	0.03	20.94	17.67	5.00
		02/26/96	23.34	0.76	24.10	15.13	41.25
		04/22/96	22.14	0.02	22.16	16.44	NA
		05/28/96	21.11	0.00	21.11	17.47	NA
		06/24/96	22.41	0.00	22.41	16.17	NA
		07/22/96	22.88	0.00	22.88	15.70	NA
		07/24/96	23.45	0.76	24.21	15.02	NA
		08/23/96	NA	0.00	22.21	16.37	NA
		09/23/96	23.74	0.02	23.76	14.84	NA
		10/28/96	NA	0.00	24.32	14.26	NA
		01/31/97	22.45	0.09	22.54	16.12	2.00
		04/21/97	23.00	0.01	23.01	15.58	NA
						SPH Recovered to Date:	**51.05**
RES-O	36.03	03/28/95	17.61	0.04	17.65	18.41	NA
		04/24/95	17.78	0.02	17.80	18.25	NA
		05/22/95	17.99	0.02	18.01	18.04	NA
		06/26/95	18.26	0.02	18.28	17.77	NA
		08/28/95	17.30	0.25	17.55	18.69	NA
		09/25/95	18.60	0.61	19.21	17.34	NA
		10/23/95	18.90	0.14	19.04	17.11	NA
		11/27/95	19.25	0.01	19.26	16.78	0.01
		12/28/95	17.53	0.01	17.54	18.50	NA
		01/22/96	17.42	0.07	17.49	18.60	NA
		02/26/96	12.50	0.11	12.61	23.51	NA
		04/22/96	10.95	0.10	11.05	25.07	NA
		05/28/96	16.82	0.00	16.82	19.21	NA
		06/24/96	17.18	0.01	17.19	18.85	NA

COPPOR00005488

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
RES-O	36.03	07/22/96	17.53	0.01	17.54	18.50	NA
		08/23/96	18.10	0.01	18.11	17.93	NA
		09/23/96	18.22	0.08	18.30	17.80	NA
		10/28/96	18.10	0.05	18.15	17.92	NA
		01/31/97	NP	0.00	16.20	19.83	0.00
		04/21/97	NP	0.00	17.00	19.03	0.00
						SPH Recovered to Date:	**0.01**
U-2	35.02	03/28/95	NA	0.00	14.88	20.14	NA
		04/24/95	NA	0.00	15.10	19.92	NA
		05/22/95	NA	0.00	15.25	19.77	NA
		06/26/95	NA	0.00	15.52	19.50	NA
		07/24/95	NA	0.00	15.75	19.27	NA
		08/28/95	NA	0.00	15.65	19.37	NA
		09/25/95	NA	0.00	15.20	19.82	NA
		10/23/95	NA	0.00	16.57	18.45	NA
		12/28/95	NA	0.00	15.06	19.96	NA
		01/22/96	NA	0.00	16.44	18.58	NA
		02/26/96	NA	0.00	14.35	20.67	NA
		04/22/96	NA	0.00	15.01	20.01	NA
		05/28/96	NA	0.00	13.98	21.04	NA
		06/24/96	NA	0.00	14.36	20.66	NA
		07/22/96	NA	0.00	14.96	20.06	NA
		08/23/96	NA	0.00	15.10	19.92	NA
		09/23/96	NA	0.00	14.93	20.09	NA
		10/28/96	NA	0.00	14.85	20.17	NA
		01/31/97	NP	0.00	13.86	21.16	0.00
		04/21/97	NP	0.00	14.52	20.50	0.00
						SPH Recovered to Date:	**0.00**
U-3	35.25	03/28/95	NA	0.00	12.72	22.53	NA
		04/24/95	NA	0.00	12.93	22.32	NA
		05/22/95	NA	0.00	13.55	21.70	NA
		06/26/95	13.89	0.01	13.90	21.36	NA
		07/24/95	NA	0.00	14.02	21.23	NA
		08/28/95	NA	0.00	19.65	15.60	NA
		09/25/95	NA	0.00	16.35	18.90	NA
		10/23/95	14.20	0.01	14.21	21.05	NA
		11/27/95	14.20	0.00	14.20	21.05	NA
		12/28/95	12.71	0.00	12.71	22.54	NA
		01/22/96	16.56	0.02	16.58	18.69	NA
		02/26/96	14.51	0.36	14.15	21.41	NA
		04/22/96	NA	0.00	15.15	20.10	NA
		05/28/96	NA	0.00	12.27	22.98	NA
		06/24/96	NA	0.00	12.69	22.56	NA
		07/22/96	NA	0.00	13.02	22.23	NA
		08/23/96	NA	0.00	13.15	22.10	NA
		09/23/96	NA	0.00	15.02	20.23	NA
		10/28/96	NA	0.00	17.90	17.35	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
U-3	35.25	01/31/97	NP	0.00	11.86	23.39	0.00
		04/21/97	NP	0.00	12.82	22.43	0.00
						SPH Recovered to Date:	**0.00**
U-4	34.46	03/28/95	17.42	3.98	21.40	16.44	NA
		04/24/95	15.60	6.17	21.77	17.93	NA
		05/22/95	15.75	6.18	21.93	17.78	NA
		06/26/95	15.96	6.16	22.12	17.58	NA
		07/24/95	16.33	4.17	20.50	17.50	NA
		08/28/95	17.23	3.72	20.95	16.67	5.20
		09/25/95	18.60	0.25	18.85	15.82	NA
		10/23/95	17.35	3.90	21.25	16.52	NA
		11/27/95	16.40	2.40	18.80	17.70	1.22
		01/22/96	17.60	0.04	17.64	16.85	2.79
		02/26/96	12.85	0.30	13.15	21.57	0.98
		04/22/96	11.50	0.23	11.73	22.93	0.31
		08/23/96	16.31	0.16	16.47	18.13	0.25
		09/23/96	16.61	0.09	16.70	17.84	NA
		10/28/96	17.56	0.19	17.75	16.87	NA
		01/31/97	14.80	2.25	17.05	19.32	6.50
		04/21/97	15.26	0.09	15.35	19.19	NA
						SPH Recovered to Date:	**17.25**
U-5	33.37	03/28/95	NA	0.00	18.21	15.16	NA
		04/24/95	NA	0.00	18.47	14.90	NA
		05/22/95	NA	0.00	18.33	15.04	NA
		06/26/95	NA	0.00	8.42	24.95	NA
		07/24/95	18.90	0.01	18.91	14.47	NA
		08/28/95	19.13	0.12	19.25	14.22	NA
		09/25/95	19.27	0.25	19.52	14.06	NA
		10/23/95	19.32	0.17	19.49	14.02	NA
		11/27/95	18.50	0.10	18.60	14.85	0.03
	34.20	12/28/95	18.43	0.05	18.48	15.76	0.07
		01/22/96	15.57	0.08	15.65	18.62	0.02
		02/26/96	13.55	0.15	13.70	20.63	NA
		04/22/96	17.82	0.08	17.90	16.37	0.02
		05/28/96	16.52	0.01	16.53	17.68	NA
		06/24/96	18.10	0.01	18.11	16.10	NA
		07/22/96	19.39	0.03	19.42	14.81	NA
		09/23/96	20.04	0.04	20.08	14.15	NA
		10/28/96	18.15	0.07	18.22	16.04	NA
		01/31/97	NP	0.00	18.01	16.19	0.00
		04/21/97	NP	0.00	18.61	15.59	0.00
						SPH Recovered to Date:	**0.14**
U-5A	33.77	03/28/95	4.73	1.47	6.20	28.82	NA
		04/24/95	6.02	0.39	6.41	27.69	NA
		05/22/95	6.52	0.00	NM	0.00	NA
		06/26/95	6.97	0.00	NM	0.00	0.50

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
U-5A	33.77	07/24/95	9.86	0.37	10.23	23.85	NA
		08/28/95	9.50	0.45	9.95	24.20	0.01
		09/25/95	NA	0.00	15.61	18.16	NA
		10/23/95	15.30	0.20	15.50	18.44	NA
		11/27/95	6.34	0.08	6.42	27.42	0.36
		12/28/95	5.97	0.42	6.39	27.74	0.25
		01/22/96	6.43	0.07	6.50	27.33	0.07
		02/26/96	8.50	0.03	8.53	25.27	0.08
		04/22/96	9.35	0.05	9.40	24.41	0.05
		06/24/96	5.79	0.32	6.11	27.93	0.15
		07/22/96	6.47	0.07	6.54	27.29	0.05
		08/23/96	7.21	0.89	8.10	26.43	0.32
		09/23/96	8.58	1.31	9.89	24.99	NA
		10/28/96	20.04	0.03	20.07	13.73	NA
		01/31/97	4.59	0.27	4.86	29.14	10.00
		04/21/97	5.33	0.04	5.37	28.43	NA
						SPH Recovered to Date:	**11.84**
						Tosco total SPH Recovered to Date:	**105.93**
						Complete total SPH Recovered to Date:	**294.50**

Notes:

SPH = Separate-phase hydrocarbon
NP = No product
NA = Not available
NM = Not measured
SPH recovered to 10/28/96 has been accumulative process on a weekly to monthly basis and added together to get the sum.
* = Groundwater elevation (GWE) is corrected for the presence of SPH using:
GWE = toc - (DTW + (SPH thickness x Specific gravity of SPH)) Specific gravity used is 0.85
** = SPH recovered represents total recovered for presented interval.

COPPOR00005491

Table 6
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron			
B-7	01/01/95	ND	ND	ND	ND
	04/01/95	ND	0.73	ND	ND
	07/01/95	ND	0.57	ND	ND
	10/01/95	ND	ND	ND	ND
	01/01/96	ND	ND	0.5	NS
	04/01/96	ND	ND	ND	ND
	07/22/96	5.4	0.64	ND	ND
	10/28/96	ND	ND	ND	ND
	01/29/97	ND	ND	ND	ND
	04/28/97	ND	ND	ND	ND
B-9	01/01/95	ND	0.9	ND	1.5
	04/01/95	ND	0.88	ND	1.3
	07/01/95	ND	1	ND	0.52
	10/01/95	ND	1	ND	2.5
	01/22/96	0.63	0.66	ND	1.8
	04/22/96	1	1.3	ND	2.7
	07/22/96	1.8	0.86	ND	0.93
	10/28/96	ND	ND	ND	ND
	01/29/97	ND	ND	ND	ND
	04/28/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	2.22
B-10	01/01/95	8.6	2.9	0.7	5.2
	04/01/95	11	5.7	14	17
	07/01/95	8.3	3.6	4.3	11
	10/01/95	22	4.3	1.8	13
	01/22/96	8.6	2.1	ND	5.4
	04/22/96	33	5.6	1.3	15
	07/22/96	30	4.5	6.6	15
	10/28/96	120	4.5	4	11
	01/29/97	172	6.16	1.27	10.5
	04/28/97	60.8	4.72	2.82	6.54
	07/31/97	52.0	ND	ND	ND

COPPOR00005492

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron (continued)			
B-11	01/01/95	12	2.8	52	9.9
	04/01/95	140	8.2	2.6	6.3
	07/01/95	140	9.3	2.3	9.5
	10/01/95	320	7.8	ND	8.1
	01/22/96	260	4	140	24
Duplicate	01/22/96	ND	ND	ND	ND
	04/01/96	340	9.8	38	14
	07/22/96	250	7.3	2.4	13
	10/28/96	290	12	4.3	9.5
	01/29/97	243	ND	411	79.0
	04/28/97	243	5.90	24.3	11.0
	07/31/97	339	150	141	448
B-13	01/22/96	400	7.7	18	14
B-14	01/01/95	190	15	78	46
	04/01/95	140	7.6	170	83
	07/01/95	190	21	91	55
	10/01/95	240	20	45	22
	01/22/96	230	9.5	51	27
	04/22/96	260	14	93	52
Duplicate	04/22/96	270	14	90	50
	07/22/96	230	15	100	67
Duplicate	07/22/96	220	18	110	74
	10/28/96	140	8.2	29	12
Duplicate	10/28/96	120	8.3	24	11
	01/29/97	1,340	35.5	498	94.5
Duplicate	01/29/97	2,180	50.0	835	198
	04/28/97	1,310	57.5	440	ND
	07/31/97	407	37.2	118	67.0
Duplicate	07/31/97	332	32.0	83.5	51.0

COPPOR00005493

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron (continued)			
B-28	01/01/95	10	0.7	17	2
	04/01/95	19	0.86	48	7.8
	07/01/95	1.7	0.82	32	5.6
	10/01/95	3	ND	0.93	ND
	01/22/96	4.6	ND	19	6.6
	04/01/96	ND	ND	ND	ND
	07/22/96	14	0.74	64	13
	10/28/96	2.3	ND	2.5	ND
	01/29/97	26.4	1.50	160	62.5
	07/31/97	2.19	ND	12.5	2.39
B-30	01/01/95	51	7.6	3.1	17
	04/01/95	28	3.1	1.6	9.9
	07/01/95	12	2	0.71	4.5
	10/01/95	43	4.6	0.94	11
	01/22/96	50	7.1	2.4	14
	04/22/96	25	7.4	3.2	15
	07/22/96	38	4.2	1.9	9
	10/28/96	19	4.1	0.95	9.1
	01/29/97	97.5	12.4	8.45	15.4
	04/28/97	124	14.9	7.86	18.1
Duplicate	04/28/97	133	15.5	8.42	19.0
	07/31/97	30.0	4.00	1.22	7.38
CR-3	01/22/96	ND	ND	ND	ND
CR-8	01/01/95	ND	ND	3.9	5.8
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	0.54
	01/22/96	1.2	ND	0.59	1.8
	04/22/96	1.7	0.98	1.1	2.2
	07/22/96	ND	ND	0.58	1.6
	10/28/96	ND	ND	ND	2.4
	01/29/97	ND	ND	8.94	19.1
	04/25/97	2.48	3.35	4.44	7.01
	07/31/97	ND	ND	ND	ND

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron (continued)			
CR-9	07/31/97	ND	ND	ND	ND
CR-11	01/01/95	94	3.9	2.4	3.4
	04/01/95	110	3.6	5.4	17
	07/01/95	94	4.4	3	9.1
	10/01/95	130	8.5	4.2	8.8
	01/22/96	78	2.3	1.9	4.8
	04/22/96	91	5.2	4	3.8
	07/22/96	92	5.3	12	23
	10/28/96	NS/F	NS/F	NS/F	NS/F
	01/29/97	50.4	ND	13.3	47.9
	04/25/97	32.6	2.01	0.711	ND
	07/31/97	35.2	ND	ND	ND

COPPOR00005495

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX			
MW-1	11/07/90	<5.0	<5.0	6.87	<5.0
MW-5	04/30/91	2.6	<0.5	<0.5	<0.5
MW-6	11/07/90	68	<5.0	<10	<20
MW-7	11/07/90	25	270	408	1,500
	01/01/95	ND	ND	18	30
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/01/96	NS	NS	NS	NS
	07/01/96	NS	NS	NS	NS
	10/28/96	NS	NS	NS	NS
MW-8	11/07/90	38.3	NS/F	-	5.2
	01/01/95	ND	ND	ND	ND
	04/01/95	0.96	ND	ND	ND
	07/01/95	ND	ND	ND	1.1
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	970	64	6.3	20
	07/22/96	1,100	440	39	140
	10/28/96	1,300	2,000	190	900
	01/30/97	134	3.48	37.8	107
	04/24/97	124	3.76	53.6	89.8
	07/30/97	155	6.24	93.8	135

COPPOR00005496

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-10	04/30/91	2.6	<0.5	<0.5	<0.5
	01/01/95	1.7	0.7	ND	1
	04/01/95	ND	ND	ND	1.3
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	1.3
	01/22/96	2.3	0.68	ND	1.1
	04/22/96	6.5	0.88	ND	0.62
	07/22/96	ND	ND	ND	ND
	10/28/96	2.4	ND	ND	ND
	01/30/97	5.05	0.647	ND	1.03
	04/25/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
MW-11	11/07/90	12,000	15,000	1,600	10,000
	01/01/95	8,900	4,500	2,500	11,000
	04/01/95	7,400	4,900	2,500	12,000
	07/01/95	5,400	2,400	2,600	8,000
	10/01/95	7,100	2,800	2,400	8,700
	01/22/96	7,400	4,500	2,100	10,000
	04/22/96	7,000	3,800	2,500	11,000
	07/22/96	4,900	2,000	2,400	8,100
	10/28/96	5,100	2,200	2,200	8,100
	04/24/97	6,860	3,360	2,840	11,300
	07/30/97	6,390	2,630	2,970	10,800
MW-13	11/07/90	<5.0	NS/F	<5.0	<5.0
	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
MW-15	04/24/97	2.40	ND	ND	ND
	07/30/97	9.78	ND	ND	ND
MW-18	04/30/91	<0.5	3.6	2.2	4.4
MW-19	11/07/90	11.3	8.2	23.4	32.9
MW-20	10/28/96	ND	ND	ND	ND

COPPOR00005497

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-21	01/30/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
Duplicate	07/30/97	ND	ND	ND	ND
MW-22	11/07/90	2,600	15,400	5,000	22,000
	01/01/95	2,400	8,100	4,700	16,000
	04/01/95	2,200	7,100	4,500	15,000
	07/01/95	2,000	5,800	4,500	15,000
	10/01/95	2,300	6,300	5,200	19,000
	01/22/96	1,800	5,300	4,100	15,000
	04/22/96	1,900	4,600	4,000	12,000
	07/22/96	2,200	4,300	4,700	15,000
	10/28/96	2,000	3,500	4,200	14,000
Duplicate	10/28/96	1,800	3,400	4,600	15,000
	01/30/97	2,130	3,650	4,680	14,400
	04/24/97	2,400	4,060	4,810	14,000
	07/30/97	1,940	1,950	4,320	13,400
MW-23	05/01/91	140	22	180	130
	01/01/95	72	20	210	180
	04/01/95	150	38	240	140
	07/01/95	99	20	240	140
	10/01/95	120	18	230	120
	01/22/96	32	ND	180	156
	04/22/96	35	16	140	140
Duplicate	04/22/96	ND	ND	ND	ND
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	31	7.3	140	110
	07/30/97	22.3	ND	48.7	57.0
MW-24	11/07/90	<20	NS/F	<10	13

COPPOR00005498

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-26	05/01/91	<10	15	50	61
	01/01/95	1.7	ND	24	33
	04/01/95	8.7	7.3	13	19
	07/01/95	6.4	10	9.6	12
	10/01/95	ND	0.85	1.6	4.9
	01/19/96	ND	ND	ND	ND
	01/22/96	ND	4.2	16	20
Duplicate	01/22/96	ND	ND	ND	ND
	04/22/96	NS	ND	NS	NS
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
	01/30/97	1.73	2.00	9.18	8.66
	04/24/97	2.80	2.48	7.58	7.32
MW-27	05/01/91	83	0.6	<0.5	0.7
MW-28	05/01/91	9.5	26	74	200
	01/01/95	0.9	0.6	8.5	20
	04/01/95	ND	ND	20	15
	07/01/95	7.6	2.7	2.6	7.9
	10/01/95	2.8	2.6	7.2	20
	01/19/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	4.2
	07/22/96	2	0.95	0.73	1.8
	10/28/96	1.2	0.66	1.8	3.2
	01/30/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND

COPPOR00005499

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-31	05/01/91	1.2	<0.5	1.2	1.5
	01/01/95	1.3	1.6	1.2	3.8
	04/01/95	9.3	4.7	0.99	3.1
	07/01/95	2.8	1.3	0.64	1.4
	10/01/95	ND	ND	ND	ND
	01/19/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	2.5	1.1	0.54	1.9
	10/28/96	1.5	ND	ND	ND
	01/30/97	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
MW-32	11/07/90	<5.0	<5.0	<5.0	<20
	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	0.56
	10/28/96	ND	ND	ND	ND
Duplicate	10/28/96	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND

COPPOR00005500

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-33	01/01/95	ND	ND	ND	0.5
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/01/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND
Duplicate	01/30/97	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND
Duplicate	04/24/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND
MW-36	07/01/95	NS	NS	NS	NS
	10/01/95	NS	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND
MW-37	01/01/95	ND	ND	2.2	7.1
	04/01/95	ND	ND	ND	ND
	07/01/95	140	ND	ND	ND
	10/01/95	14	ND	ND	ND
	01/22/96	140	1	ND	1.8
	04/22/96	92	ND	ND	ND
	07/22/96	450	6.4	ND	4.8
	10/28/96	27	ND	ND	ND
	01/30/97	697	56.7	12.6	49.6
	04/24/97	1,680	16.2	28.4	68.6
	07/31/97	1,350	ND	29.2	42.6
MW-39	10/28/96	0.96	ND	1.8	2.4

COPPOR00005501

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-40	04/24/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND
W-4	01/01/88	ND (5.0)	7	ND (0.7)	ND (5.0)
	01/01/89	ND (5)	ND (5)	ND (5)	ND (2)
W-17	01/01/88	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
W-27	01/01/88	ND (5.0)	ND (5.0)	ND (3.0)	ND (5.0)
	01/01/89	23	7	ND (2)	18
W-34	01/01/88	29	11	18	ND (3.0)
	01/01/89	ND (5)	ND (5)	ND (5)	5
W-35	01/01/88	ND (5.0)	ND (2.0)	8	ND (2.0)

COPPOR00005502

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco			
B-2	10/28/96	18	2.9	ND	3.5
B-3	10/28/96	ND	ND	ND	ND
B-4	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS	NS	NS	NS
	10/28/96	NS	NS	NS	NS
	04/25/97	228	8.02	7.36	ND
B-6	01/22/96	240	17	300	120
	07/22/96	270	25	380	120
	10/28/96	180	31	360	130
B-16	01/22/96	590	9.4	11	11
	07/22/96	210	8.7	7.9	9.9
	10/28/96	850	22	16	16
B-17	01/01/95	200	17	4.5	26
	04/01/95	590	17	7.7	16
	07/01/95	670	22	11	20
	10/01/95	830	36	16	43
	01/22/96	550	9.8	11	12
	04/22/96	580	19	12	32
	07/22/96	520	22	12	20
	10/28/96	330	15	10	ND
	01/31/97	280	12.1	9.69	10.1
	04/25/97	698	21.7	17.7	ND
	08/01/97	768	ND	ND	ND

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
B-18	01/01/95	ND	ND	ND	0.6
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
B-22	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	15	1.6	2.3	5.3
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	14	0.93	0.52	0.56
	10/28/96	NS	NS	NS	NS
	04/25/97	20.1	1.62	0.806	ND
B-25	01/22/96	2.4	ND	3.6	1
	10/28/96	ND	ND	ND	ND
B-27	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F

COPPOR00005504

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
B-35	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	11	7.2	1.2	8.3
	10/28/96	NS	NS	NS	NS
	01/31/97	3.35	3.81	ND	2.17
Duplicate	01/31/97	3.87	4.72	ND	2.73
	04/25/97	6.50	8.58	0.790	6.98
	08/01/97	8.25	5.19	ND	ND
B-36	01/01/95	NS	NS	NS	NS
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	480	8.9	8.2	9.6
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
B-37	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	31	0.54	0.72	1.3
	07/22/96	4.5	ND	ND	0.52
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
B-40	01/22/96	2.9	1.9	16	7.5
	10/28/96	0.93	1.2	1.3	1.2
RES-N	01/01/95	4	0.6	3.4	4.5
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F
U-2	01/01/95	3.8	ND	4.9	2.9
	04/01/95	0.66	ND	1.2	1.2
	07/01/95	2.6	ND	0.62	4
	10/01/95	6.8	ND	ND	ND
	01/22/96	1.3	ND	2.9	1.2
	04/22/96	ND	ND	ND	ND
	07/22/96	7.5	1.9	10	4.2
	10/28/96	ND	ND	ND	ND
	01/31/97	8.91	ND	42.5	ND
	04/25/97	18.4	1.27	25.4	4.64
Duplicate	04/25/97	20.8	1.36	29.4	3.70
	08/01/97	6.66	ND	3.18	ND
U-3	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	220	7.9	49	26
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	4.77	0.523	ND	ND
	08/01/97	14.9	14.8	ND	5.42
Duplicate	08/01/97	14.8	15.0	ND	5.80

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
U-4	01/01/95	ND	ND	ND	0.6
	04/01/95	ND	ND	ND	ND
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
U-5	01/01/95	15	2	0.5	3
	04/01/95	1.9	1.4	ND	1.7
	07/01/95	2.7	1.2	ND	1.8
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
U-5A	01/01/95	20	6.5	3.7	7.2
	04/01/95	28	7.8	5	20
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS

Notes:

ppb = Parts per billion
ND = Not detected
NS = Not sampled
NS/F = Not sampled floating product present
NA = Not analyzed, not applicable
BTEX by EPA Method 8020

COPPOR00005507

Table 7

Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron																	
B-7	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	1.80	ND	0.364	ND	ND	ND	ND	ND	ND	ND	ND	6.38	ND	ND	2.11	ND
	04/28/97	6.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.7	ND	ND	30.2	ND
B-9	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	0.196	0.424	0.553	0.505	0.312	0.569	ND	0.667	ND	0.529	ND	ND	0.813
	01/29/97	1.38	ND	0.325	0.208	0.295	0.380	0.413	0.364	0.425	ND	0.629	4.72	0.349	ND	1.13	0.587
	04/28/97	6.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.4	ND	ND	18.6	ND
B-10	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	1.35	ND	0.647	0.258	0.334	0.481	0.283	0.409	0.490	ND	0.951	3.71	0.275	ND	4.45	0.924
	04/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.0	ND	ND	20.6	ND
B-11	07/01/96	ND	ND	ND	0.22	0.16	0.17	0.24	ND	0.22	ND	2.4	ND	0.2	ND	ND	3
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	0.758	ND	0.175	0.161	0.240	0.321	0.317	0.267	0.297	ND	0.398	1.24	0.245	29.1	1.26	0.457
	04/28/97	0.686	ND	0.105	ND	ND	ND	ND	ND	ND	ND	ND	1.12	ND	1.64	0.852	0.134
B-14	07/01/96	ND	ND	ND	0.13	0.12	ND	0.25	ND	0.15	ND	2.2	ND	ND	12	ND	1.9
Duplicate	07/01/96	ND	ND	ND	ND	0.13	ND	ND	ND	0.12	ND	2	ND	0.12	ND	ND	1.6
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.413	ND	ND	ND	ND	ND
Duplicate	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.472	ND	ND	7.35	ND	ND
	01/29/97	1.19	ND	0.254	0.225	0.229	0.272	0.262	0.242	0.314	ND	0.580	2.54	0.198	68.7	2.39	0.737
Duplicate	01/29/97	0.788	ND	0.377	0.238	0.205	0.205	0.128	0.187	0.307	ND	0.868	2.34	0.121	65.8	3.29	0.941
	04/28/97	0.865	ND	0.198	ND	ND	ND	ND	ND	ND	ND	0.542	1.47	ND	23.7	1.42	0.660
B-28	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.9	ND	ND
	01/29/97	ND	ND	ND	ND	0.104	0.110	0.107	ND	0.109	ND	0.127	0.166	ND	30.4	0.281	0.163

COPPOR0000508

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron (continued)																	
B-30	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	0.172	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.219	ND	0.199	0.440	ND
	04/28/97	0.199	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.190	ND	0.345	0.210	0.143
Duplicate	04/28/97	0.246	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.124	0.262	ND	0.399	0.258	0.146
CR-8	07/01/96	ND	ND	ND	0.61	1.2	1	1.8	0.38	0.77	ND	0.98	ND	1.2	ND	ND	1.4
	10/28/96	ND	ND	ND	0.398	1.37	0.905	1.73	0.515	0.655	ND	0.938	ND	1.3	ND	ND	1.33
	01/29/97	ND	ND	ND	0.359	0.791	0.602	1.24	0.545	0.514	ND	0.526	ND	0.760	ND	ND	0.950
	04/25/97	ND	ND	0.101	0.502	1.31	0.790	1.36	0.708	0.687	ND	0.809	ND	0.943	ND	0.129	1.24
CR-11	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/29/97	0.941	ND	0.185	ND	ND	ND	ND	ND	ND	ND	ND	2.06	ND	ND	1.37	0.109
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.183	ND	ND	ND	ND

COPPOR0005509

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
							GATX										
MW-7	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
MW-8	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.11	ND	ND
	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.52	ND	ND
MW-10	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-11	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	280	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230	ND	ND
	04/24/97	0.125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.171	ND	475	ND	ND
MW-13	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-21	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-22	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	240	ND	ND
Duplicate	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	260	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	360	ND	ND
	01/30/97	0.298	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.456	ND	352	0.258	ND
	04/24/97	0.182	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.366	ND	311	0.267	ND
MW-23	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
MW-24	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

COPPOR0005510

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-26	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/30/97	1.77	ND	0.175	ND	ND	ND	ND	ND	ND	ND	0.299	1.68	ND	8.77	1.36	0.183
	04/24/97	1.57	ND	0.153	ND	ND	ND	ND	ND	ND	ND	0.322	1.46	ND	3.96	0.876	0.149
MW-28	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	0.756	ND	0.502	0.220	ND	ND	ND	ND	0.517	ND	0.344	2.10	ND	ND	1.74	0.850
MW-31	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	0.651	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.65	ND	ND	0.356	ND
	04/24/97	0.539	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	ND	ND	0.532	ND
MW-32	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-33	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-36	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.105	ND
	04/25/97	0.199	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR0005511

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-37	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	0.751	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.102	1.21	ND	ND	0.156	0.166
	04/24/97	ND	ND	0.386	0.552	0.574	0.364	0.361	0.416	0.567	ND	1.31	ND	0.330	ND	2.41	1.65
MW-40	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR0005512

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco																	
B-2	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-3	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.8	ND	ND
B-4	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/25/97	24.2	ND	20.1	ND	ND	ND	ND	ND	ND	ND	13.3	63.1	ND	ND	141	18.9
B-6	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.9	ND	ND
B-16	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.21	ND	ND	ND	ND	ND
B-17	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	22	16	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	0.298	ND	ND	ND	ND	6.57	ND	ND
	01/31/97	10.8	ND	4.46	ND	0.140	0.142	ND	ND	ND	ND	3.04	38.0	ND	ND	66.6	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.0	ND	ND	20.9	ND
B-18	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.68
	01/31/97	0.559	ND	0.290	ND	ND	ND	ND	ND	ND	ND	0.189	1.36	ND	ND	1.86	0.215
	04/25/97	0.308	ND	0.104	ND	ND	ND	ND	ND	ND	ND	ND	0.496	ND	ND	0.390	0.123
B-22	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.67	ND	ND	7.76	ND
B-25	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-27	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F

COPPOR0005513

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
B-35	07/01/96	ND	ND	ND	18	1.9	2.1	2.2	3.8	14	ND	ND	44	ND	25	120	ND
	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/31/97	13.6	ND	9.47	4.38	0.978	1.47	0.106	1.17	4.27	ND	27.4	42.7	0.144	ND	77.3	12.8
Duplicate	01/31/97	19.1	ND	14.4	5.94	1.63	2.68	0.183	2.22	5.60	ND	41.7	56.6	0.237	ND	110	16.9
	04/25/97	5.33	ND	ND	0.571	0.118	0.150	ND	0.134	0.521	ND	ND	14.4	ND	ND	18.0	ND
B-36	07/01/96	ND	ND	ND	7.5	ND	ND	ND	ND	5.5	ND	64	ND	ND	ND	ND	76
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.221	ND	ND	0.108	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-37	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	0.224	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	0.206	ND	ND	ND	ND	ND	0.105	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/97	0.189	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-40	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43.1	32.8
U-2	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.3	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	0.516	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.278	0.541	ND	39.8	0.111	0.250
	04/25/97	0.364	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.179	0.873	ND	37.5	0.339	0.235
Duplicate	04/25/97	0.241	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.142	0.562	ND	ND	ND	0.153
U-3	07/01/96	ND	ND	ND	0.66	0.74	0.98	0.95	0.52	0.87	ND	ND	ND	0.7	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	0.220	ND	0.155	0.942	1.24	1.41	1.21	1.23	1.20	0.415	1.84	0.263	1.10	ND	0.881	0.923
	04/25/97	ND	ND	ND	ND	0.109	0.104	ND	ND	0.106	ND	0.134	ND	ND	ND	ND	0.144
U-4	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F

COPPOR00005514

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
U-5	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/31/97	3.12	ND	1.43	0.122	ND	ND	ND	ND	0.287	ND	0.543	7.73	ND	ND	8.49	0.672
	04/25/97	1.06	ND	0.326	ND	ND	ND	ND	ND	ND	ND	ND	2.57	ND	ND	1.98	0.213
U-5A	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0000515

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Site Name: **PORSF - Portland Harbor**

104(e) Response Phillips Oil Co. (Conoco Phillips-Tosco-Unocal):
Apparent Separate-Phase Hydrocarbon Thickness - April 1996 to April 1997,
Figure 3A; Bate # COPPOR00005516
Map Located at the Superfund Records Center.
08/19/2008

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Site Name: **PORSF - Portland Harbor**

104(e) Response Phillips Oil Co. (Conoco Phillips-Tosco-Unocal):
Groundwater Elevation Contour Map, Figure 2B; Bate # COPPOR00005517
Map Located at the Superfund Records Center.
08/19/2008

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Document Information

Document ID #: ***1363597***

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Site Name: **PORSF - Portland Harbor**

104(e) Response Phillips Oil Co. (Conoco Phillips-Tosco-Unocal):
Groundwater Elevation Contour Map, Figure 2A; Bate # COPPOR00005518
Map Located at the Superfund Records Center.
08/19/2008

ATTACHMENT A

SAMPLING PROTOCOL

CERTIFIED ANALYTICAL REPORTS

CHAIN-OF-CUSTODY DOCUMENTATION

ATTACHMENT A

Sampling Protocol

The groundwater sampling procedure employed by PACIFIC consists of first measuring depth to water in the well and separate-phase hydrocarbon level and thickness (if present) using a Keck KIR-89 oil/water interface probe. Each well was then purged of a minimum of three casing volumes of water (or until dry) by double diaphragm pump using rigid polyvinyl chloride (PVC) pipe "stinger" system. The stinger system was decontaminated prior to and between uses with an Alconox™-water wash and a water rinse. Groundwater samples were collected using single-use, disposable polyethylene (PE) bailers after the wells recovered to at least 60 percent of the pre-purge static water level. The samples were placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported at 4°C to the selected analytical laboratory. Dissolved metal samples were filtered in the field using a 0.45-micron filter capsule, disposable Tygon® tubing and a peristaltic pump. Purge water was disposed of using facility treatment systems.

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Date: April 4, 1997
Project: 1105-003.2B

To: Ms. Jill Kiernan, P.E.
Oregon Department of
Environmental Quality
2020 S.W. Fourth Avenue, Suite 400
Portland, Oregon 97204

We have enclosed:

Copies	Description
1	Original RI/FS Interim Action Fourth Quarter 1996 Report for the Willbridge Terminal.

For your:
X Use
___ Approval
___ Review
___ Information

Comments: Ms. Kiernan, enclosed is the above mentioned report. Please call with any questions.

Kevin Freeman

cc: Mr. Rene White, Chevron Products Company
Mr. Marty Cramer, 76 Products Company
Mr. Irv Jenkins, Shell Oil Company
Mr. Erik Hansen, Shell Development Company
Mr. Eric Conard, GATX

7320 SW Hunziker Street, Suite 320, Portland, Oregon 97223 (503) 639-6305 FAX (503) 639-7482

PACIFIC
ENVIRONMENTAL
GROUP, INC.

April 2, 1997
Project 1105-003.2B

Ms. Jill Kiernan, P.E.
Oregon Department of Environmental Quality
Waste Management and Cleanup
2020 S.W. Fourth Avenue, Suite 400
Portland, Oregon 97204

Re: Willbridge RI/FS Interim Action
Fourth Quarter Report 1996 - September through November

Dear Ms. Kiernan:

Pacific Environmental Group, Inc. (PACIFIC), is pleased to present the fourth quarter 1996 progress report for the remedial investigation/feasibility study (RI/FS) work being performed at the Chevron, Unocal, and GATX/Shell Willbridge terminals in Portland, Oregon. This letter presents a summary of the following:

- Actions taken under the Consent Order from September to November 1996.
- Fourth Quarter 1996 sampling, test results, and other data generated between September and November 1996.
- A description of problems experienced and the manner in which they were resolved or are being addressed.
- Actions scheduled to be taken under the Consent Order from December 1996 to January 1997.

This progress report fulfills the requirement of Section 7F of Consent Order WMCSR-NWR-94-06.

7320 SW Hunziker Street, Suite 320, Portland, Oregon 97223 (503) 639-6305 FAX (503) 639-7482

ACTION TAKEN DURING FOURTH QUARTER 1996 - SEPTEMBER THROUGH NOVEMBER

The following work was performed during September through November 1996:

- Performed quarterly groundwater sampling, monthly monitoring, and bi-weekly seep and sheen observations at the Chevron, GATX/Shell, and Unocal facilities.
- Continued to operate the Holbrook Slough cutoff trench at the Old Doane Avenue storm water outfall for groundwater and free product recovery when river stage levels allowed operation of the system.
- Groundwater from Unocal Terminal Wells B-2, B-3, B-6, B-16, B-25, and B-40 were added for polynuclear aromatic hydrocarbon (PAH) analysis.
- Submitted the Doane Avenue Storm Sewer Investigation Report. This investigation is part of the CH2M Hill Willbridge Facilities Riverfront Interim Action Work.
- Chevron, Unocal, Shell, and GATX replaced CH2M Hill as the common consultant for the facility with PACIFIC in November 1996. Additionally, PACIFIC replaced GeoEngineers, SECOR International Incorporated (SECOR), and Hart/Crowser as the facility field consultant in December 1996.

FOURTH QUARTER 1996 SAMPLING, TEST RESULTS, AND DATA GENERATED FROM SEPTEMBER THROUGH NOVEMBER

Interim action monitoring activities performed during the fourth quarter included water level and separate-phase hydrocarbon (SPH) thickness measurements and groundwater sampling from selected wells, as outlined in the Field Coordination Plan (FCP) dated April 1995. Groundwater samples were not obtained from wells with SPH. Pursuant to a request from Unocal, GeoEngineers ceased groundwater monitoring following the October sampling event.

Groundwater Levels and Flow

Water level measurements were performed in September, October, and November 1996. Measurements were corrected for SPH where encountered. A groundwater table contour map using the October 1996 data is shown in Figures 1A and 1B. The October 1996 groundwater elevation data is presented in Table 1. Water elevation and SPH recovery data for September, October, November 1996, and historic water elevation measurements are presented in Table 2.

Water levels beneath the site are influenced by annual precipitation cycles and by river stage fluctuations. The effect of river stage fluctuations is most pronounced on water levels in wells along the river front. During the fall quarter (September through November 1996), water table elevations in the vicinity of the river continued to decline from summer quarter levels by approximately 0.5-foot, while water table elevations in upgradient facility wells increased by approximately 0.5 to 1-foot. These changes are likely in response to recession of river stage in September combined with upgradient recharge from rainfall infiltration.

The direction of groundwater flow, inferred from the elevation contours, is generally toward the river, with a localized groundwater mound in the GATX/Shell south tank farm, and apparent elongated groundwater depressions (troughs) in the vicinity of Northwest Doane Avenue and the Saltzman Creek flume. These troughs may be caused by groundwater drainage through the backfill associated with the Doane Avenue storm sewer conduit and the Saltzman Creek flume. The groundwater mound in the GATX/Shell tank farm may be caused by the difference in hydraulic conductivity of the stratigraphic units beneath the GATX/Shell south tank farm (silt/clay) and the remainder of the site (sandy fill).

River Stage Data

The Willamette River stage (measured on the river gauge at the Unocal dock and converted to City of Portland datum) ranged from approximately 6.07 feet in September 1996 to approximately 7.11 feet in October 1996. No measurements for river stage were recorded in November.

Separate-Phase Hydrocarbon Thickness and Flow

Separate-phase hydrocarbon thickness was measured at selected wells on a monthly and quarterly basis (Tables 1 and 2). Apparent SPH thickness data for January, April, July and October 1996 are shown on Figures 2A and 2B.

Riverfront Area

Separate-phase hydrocarbon in the riverfront area is historically concentrated in the current and former alignments of the Doane Avenue stormwater outfall and possibly the Holbrook Slough. Wells B-1, B-4, B-17, and B-35 are located in the dock area nearest the old Doane Avenue storm drain alignment. Wells B-38, B-39, B-40, and U-5, are adjacent to the new Doane Avenue storm drain in the Riverfront area. Well B-7 is located nearest the historic Holbrook Slough outfall. Well RES-New is constructed in the backfill of the storm drain in the riverfront area. Well B-20 is located upgradient of the Holbrook Slough recovery trench.

The October 1996 product measurements generally show SPH thicknesses that are similar to last quarter's measurements in the wells located in the general riverfront area of the site (Table 2) with the exception of Wells B-4, B-20, and B-40. Separate-phase hydrocarbon thickness in Well B-4 increased from hundredths of a foot in July 1996 to approximately 1 foot in October 1996. Separate-phase hydrocarbon was detected in Well B-20 during September water level measurements; measured SPH thickness decreased in October and November. No SPH was measured in Well B-40 in October 1996.

Tank Farm Portion of Site

Separate-phase hydrocarbon was present in the Unocal Tank farm area in Wells U-5A, U-4, and B-27. The SPH was measured in Well CR-11, east of the Chevron lube oil tank farm. No SPH was observed in Wells CR-6, CR-7 and CR-10, along the perimeter of the Chevron tank farm. Separate-phase hydrocarbon was observed in Wells MW-7 and MW-26 in the GATX/Shell facility.

Groundwater Quality

Groundwater samples collected from selected locations in the monitoring well network were tested for benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds by EPA Method SW8020, and PAH by EPA Method SW8310, as described in the FCP. The October 1996 BTEX results are presented in Table 3 and the certified analytical results are presented in Attachment A. Historic BTEX results are presented in Table 4. The October 1996 PAH results are presented in Table 5 and certified analytical report is presented as Attachment A. Historic PAH results are presented in Tables 6, 7, and 8. Samples were not collected from wells containing SPH (SPH is designation by an NS/F in the Tables).

BTEX Compounds

The October 1996 BTEX testing results appear to be consistent with the July 1996 results. Concentrations of BTEX in Wells B-14 and B-17 increased during the previous two quarters, and decreased in October. Concentrations of BTEX in Well B-10 have increased since July. Concentrations in Shell/GATX Wells MW-8 and MW-37 have stabilized and/or decreased from last quarter's results.

PAH Compounds

The October 1996 PAH analytical results appear to be consistent with the July 1996 results. Groundwater from Unocal facility Wells B-2, B-3, B-6, B-16, B-25, and B-40 were added for PAH analysis. Wells B-2 and B-25 were reported as non detect for all PAH compounds at laboratory detection limits. Wells B-3, B-6, B-16, and B-40 were

non detect for all PAH compounds at laboratory detection limits except for: naphthalene in Wells B-3 and B-6; fluoranthene in Well B-16; and phenanthrene and pyrene in Well B-40.

Separate-Phase Hydrocarbon Recovery

The SPH recovery program began in May 1995. The well locations included in the SPH product recovery program and the corresponding SPH product recovery equipment are described in Chapter 3 of the FCP. Approximately 115 gallons of SPH have been recovered by SPH product recovery equipment in monitoring wells late May 1995 to August 1996. Approximately 700 gallons of SPH were also recovered from the Holbrook recovery trench in 1995. The SPH recovery data for each site is presented in Table 2. No SPH recovery statistics are reported for this quarter.

Separate-phase hydrocarbon recovery quantities vary from month to month. The passive product recovery canisters (PRCs) product recovery equipment consistently recovers small quantities of product per well (less than 1 gallon each month) while the more aggressive active product recovery equipment (Petro-belt) recovers larger quantities of product (2 to 20 gallons per month) on an irregular basis.

GATX/Shell Site

A Petro-belt is operating in Well MW-24 and PRCs are present in Wells MW-7, MW-6 and MW-28. The amount of SPH recovered from the GATX/Shell site this quarter was not reported to CH2M Hill.

Unocal Site

Product recovery canisters are present in Wells U-4, B-4, B-27 and B-41. A hand bailing program has been implemented in Wells B-1, B-22, B-35, B-39, U-5, U-5A and RES-Old. The wells with observed SPH are also hand bailed. A product skimmer is present in RES-New. However, the petro-belt has been removed from Well B-38 because of excessive drag on the belt from the crooked well casing. The amount of SPH recovered from the wells at the Unocal site this quarter was not reported to CH2M Hill.

Chevron Site

Product recovery canisters are present in Wells B-24, CR-6, and CR-7. A petro-belt is present in Well CR-10. The amount of SPH recovered from the Chevron site this quarter was not reported to CH2M Hill.

Holbrook Recovery Trench

The river stage controls operation of the Holbrook Slough recovery trench, located along the shoreline near the old Doane Avenue outfall. The trench is shut off when the river stage rises above approximately 8 to 9 feet, City of Portland datum (measured on the river gauge staff on the Unocal dock). River stage levels during the fourth quarter ranged between 6.07 to 7.11 feet. PACIFIC understands that the trench was not operated during the fourth quarter.

Seep and Sheen Monitoring

Weekly to bi-weekly site visits were performed to document the location and extent of hydrocarbon seeps and sheens at the riverbank. Monitoring indicates that several site conditions, including the river stage and the recovery trench operation (tied to the river stage), affect the presence and magnitude of hydrocarbon seeps and the resulting sheens observed at the river's edge.

Sheens that are observed on the water surface are controlled with containment boom and recoverable product is removed from the water surface in these areas by absorbent pads.

The containment booms currently encompass the shoreline between the Chevron and Unocal docks, and from the south edge of the Unocal dock to the southern property line (beyond the new Doane Avenue storm sewer outfall). In addition, secondary containment booms are located inside of the first boom around the new Doane Avenue outfall pipe.

Problems Experienced from Fourth Quarter 1996

No problems were related to PACIFIC by either the common or field consultants.

Actions Scheduled for First Quarter 1997

The following actions are scheduled for First Quarter 1997:

- Removal of PRC and Petro-trap devices and commencement of monthly SPH removal from selected "hot-spot" wells.
- Samples for RCRA 8 metals analysis will be collected from previously scheduled wells.
- Gauging of water level elevations and SPH in all facility wells during the First Quarter January 1997 sampling event.

PACIFIC appreciates the opportunity to be of service. If you have any questions regarding this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

Kevin M. Freeman
Senior Staff Hydrogeologist

Lance Geselbracht, P.E.
Senior Engineer

Attachments: Figure 1A - Groundwater Elevation Contour Map, October 1996
Figure 1B - Groundwater Elevation Contour Map, October 1996
Figure 2A - Apparent Separate-Phase Hydrocarbon Thickness, October 1995 to October 1996
Figure 2B - Apparent Separate-Phase Hydrocarbon Thickness, October 1995 to October 1996
Table 1 - Groundwater Elevation Data
Table 2 - Groundwater Elevation and SPH Recovery Data
Table 3 - Groundwater Analytical Results (BTEX)
Table 4 - Groundwater Analytical Results (Historic BTEX)
Table 5 - Groundwater Analytical Results (PAH)
Table 6 - Groundwater Analytical Results (Historic PAH)
Table 7 - Groundwater Analytical Results (Historic PAH)
Table 8 - Groundwater Analytical Results (Historic PAH)
Attachment A - Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Rene White, Chevron Products Company
Mr. Marty Cramer, 76 Products Company
Mr. Irv Jenkins, Shell Oil Company
Mr. Erik Hansen, Shell Development Company
Mr. Eric Conard, GATX

Table 1
Groundwater Elevation Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)
			Chevron		
B-7 (33.96)	10/28/96	19.10	0.00	19.10	14.86
B-9 (33.95)	10/28/96	NA	0.00	17.21	16.74
B-10 (34.74)	10/28/96	16.18	0.00	16.18	18.56
B-11 (34.95)	10/28/96	NA	0.00	16.14	18.81
B-12 (35.11)	10/28/96	NM	NM	NM	NM
B-13 (34.76)	10/28/96	NA	0.00	16.59	18.17
B-14 (36.59)	10/28/96	NA	0.00	18.40	18.19
B-15 (35.55)	10/28/96	NA	0.00	17.56	17.99
B-19 (34.71)	10/28/96	NA	0.00	17.03	17.68
B-20 (33.40)	10/28/96	17.50	0.43	17.93	15.84
B-21 (34.79)	10/28/96	NA	0.00	17.20	17.59
B-24 (34.70)	10/28/96	16.54	0.00	16.54	18.16
B-26 (35.30)	10/28/96	16.68	0.00	16.68	18.62

Table 1 (continued)
Groundwater Elevation Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)
		Chevron (continued)			
B-28 (35.25)	10/28/96	NA	0.00	15.98	19.27
B-30 (35.35)	10/28/96	NA	0.00	15.94	19.41
B-31 (33.86)	10/28/96	16.63	0.00	15.90	17.96
B-32 (34.23)	10/28/96	NA	0.00	17.57	16.66
CR-3 (34.32)	10/28/96	NA	0.00	14.79	19.53
CR-4 (34.93)	10/28/96	NA	0.00	6.35	28.58
CR-6 (35.61)	10/28/96	12.85	0.04	12.89	22.75
CR-7 (35.57)	10/28/96	11.51	0.02	11.53	24.06
CR-8 (33.14)	10/28/96	NA	0.00	7.71	25.43
CR-10 (35.57)	10/28/96	NM	NM	NM	NM
CR-11 (34.43)	10/28/96	3.12	0.02	3.14	31.31

Table 1 (continued)
Groundwater Elevation Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)
			Shell/GATX		
MW-1 (35.43)	10/28/96	NA	0.00	5.35	30.08
MW-3 (36.02)	10/28/96	NA	0.00	8.70	27.32
MW-4 (36.39)	10/28/96	NA	0.00	8.14	28.25
MW-5 (33.52)	10/28/96	NA	0.00	7.60	25.92
MW-6 (33.34)	10/28/96	5.19	0.00	5.19	28.15
MW-7 (34.12)	10/28/96	9.30	0.48	9.78	23.97
MW-8 (33.95)	10/28/96	NA	0.00	8.76	25.19
MW-9 (36.53)	10/28/96	NA	0.00	11.32	25.21
MW-10 (35.82)	10/28/96	NA	0.00	10.22	25.60
MW-11 (36.47)	10/28/96	6.33	0.00	6.33	30.14
MW-12 (35.95)	10/28/96	NA	0.00	7.37	28.58
MW-13 (37.89)	10/28/96	NA	0.00	5.61	32.28
MW-14 (36.28)	10/28/96	NA	0.00	5.30	30.98

Table 1 (continued)
Groundwater Elevation Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)
Shell/GATX (continued)					
MW-16 (34.93)	10/28/96	NA	0.00	5.90	29.03
MW-18 (33.76)	10/28/96	NA	0.00	2.48	31.28
MW-19 (33.39)	10/28/96	1.95	0.00	1.95	31.44
MW-20 (34.76)	10/28/96	NA	0.00	10.74	24.02
MW-21 (34.33)	10/28/96	NA	0.00	1.97	32.36
MW-22 (35.65)	10/28/96	4.80	0.00	4.80	30.85
MW-23 (36.06)	10/28/96	4.73	0.00	4.73	31.33
MW-25 (34.73)	10/28/96	NA	0.00	11.22	23.51
MW-26 (34.78)	10/28/96	11.38	0.03	11.41	23.40
MW-27 (35.67)	10/28/96	5.35	0.00	5.35	30.32
MW-28 (34.39)	10/28/96	5.03	0.00	5.03	29.36
MW-29 (35.77)	10/28/96	NA	0.00	14.15	21.62
MW-31 (37.55)	10/28/96	6.68	0.00	6.68	30.87

Table 1 (continued)
Groundwater Elevation Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)
		Shell/GATX (continued)			
MW-32 (37.01)	10/28/96	NA	0.00	5.59	31.42
MW-33 (39.34)	10/28/96	NA	0.00	20.58	18.76
MW-34 (39.67)	10/28/96	NA	0.00	20.18	16.83
MW-36 (34.88)	10/28/96	NA	0.00	15.54	19.34
MW-37 (34.86)	10/28/96	NA	0.00	15.80	19.06
MW-39 (35.02)	10/28/96	14.00	0.00	14.00	21.02
MW-40 (33.65)	10/28/96	14.63	0.00	14.63	19.02

Table 1 (continued)
Groundwater Elevation Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)
			Unocal		
B-1 (34.79)	10/28/96	17.18	0.01	17.19	17.61
B-2 (35.35)	10/28/96	NA	0.00	17.60	17.75
B-4 (34.79)	10/28/96	17.56	1.03	18.59	17.08
B-5 (34.79)	10/28/96	NA	0.00	17.10	18.49
B-6 (35.41)	10/28/96	NA	0.00	17.34	18.07
B-16 (35.82)	10/28/96	NA	0.00	17.82	18.00
B-17 (35.59)	10/28/96	NA	0.00	17.75	17.84
B-18 (35.79)	10/28/96	NA	0.00	19.47	16.32
B-25 (35.83)	10/28/96	NA	0.00	19.75	16.08
B-27 (35.74)	10/28/96	18.58	0.11	18.69	17.14
B-35 (33.58)	10/28/96	16.85	0.06	16.91	16.72
B-36 (30.97)	10/28/96	NA	0.00	15.55	15.42
B-37 (35.24)	10/28/96	NA	0.00	20.87	14.37
B-38 (34.75)	10/28/96	20.18	0.70	20.88	14.47

Table 1 (continued)
Groundwater Elevation Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)
		Unocal (continued)			
B-39 (33.92)	10/28/96	19.25	0.04	19.29	14.66
B-40 (33.19)	10/28/96	NA	0.00	19.02	14.17
B-41 (34.85)	10/28/96	19.87	0.08	19.95	14.97
RES-New (38.58)	10/28/96	NA	0.00	24.32	14.26
RES-Old (36.03)	10/28/96	18.10	0.05	18.15	17.92
U-2 (35.02)	10/28/96	NA	0.00	14.85	20.17
U-3 (35.25)	10/28/96	NA	0.00	17.90	17.35
U-4 (34.46)	10/28/96	17.56	0.19	17.75	16.87
U-5A (33.77)	10/28/96	20.04	0.03	20.07	13.73
U-5 (34.20)	10/28/96	18.15	0.07	18.22	16.04

Notes:
SPH = Separate-phase hydrocarbon
* = Groundwater elevation (GWE) is corrected for the presence of SPH using:
GWE = toc - (DTW + (SPH thickness x Specific gravity of SPH))
Specific gravity used is 0.85
NA = Not available
NM = Not measured

Table 2
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Chevron			
B-7	03/24/95	18.07	0.00	18.07	15.89	NA
(33.96)	04/24/95	18.61	0.00	18.61	15.35	NA
	05/22/95	18.56	0.00	18.56	15.40	NA
	06/19/95	18.77	0.00	18.77	15.19	NA
	07/24/95	19.74	0.00	19.74	14.22	NA
	08/28/95	20.03	0.00	20.03	13.93	NA
	09/25/95	19.79	0.01	19.80	14.17	NA
	10/23/95	19.56	0.01	19.57	14.40	NA
	11/27/95	18.61	0.00	18.61	15.35	NA
	12/29/95	17.74	0.00	17.74	16.22	NA
	01/22/96	15.82	0.00	15.82	18.14	NA
	02/26/96	14.09	0.04	14.13	19.86	NA
	03/25/96	17.38	0.01	17.39	16.58	NA
	04/22/96	17.07	0.01	17.08	16.89	NA
	05/28/96	16.46	0.00	16.46	17.50	NA
	06/24/96	17.96	0.00	17.96	16.00	NA
	07/22/96	18.79	0.00	18.79	15.17	NA
	08/26/96	19.18	0.00	19.18	14.78	NA
	09/23/96	19.22	0.00	19.22	14.74	NA
	10/28/96	19.10	0.00	19.10	14.86	NA
				SPH Recovered to Date:		**0.00**
B-9	03/24/95	NA	0.00	16.01	17.94	NA
(33.95)	04/24/95	NA	0.00	16.42	17.53	NA
	05/22/95	NA	0.00	16.54	17.41	NA
	06/19/95	NA	0.00	16.59	17.36	NA
	07/24/95	NA	0.00	17.45	16.50	NA
	08/28/95	NA	0.00	17.85	16.10	NA
	09/25/95	NA	0.00	17.85	16.10	NA
	10/23/95	NA	0.00	17.45	16.50	NA
	11/27/95	NA	0.00	16.51	17.44	NA
	12/29/95	NA	0.00	15.86	18.09	NA
	01/22/96	NA	0.00	15.31	18.64	NA
	02/26/96	NA	0.00	13.20	20.75	NA
	03/25/96	NA	0.00	15.49	18.46	NA
	04/22/96	NA	0.00	15.20	18.75	NA
	05/28/96	NA	0.00	15.47	18.48	NA
	06/24/96	NA	0.00	16.09	17.86	NA
	07/22/96	NA	0.00	16.61	17.34	NA
	08/26/96	NA	0.00	17.26	16.69	NA
	09/23/96	NA	0.00	17.14	16.81	NA
	10/28/96	NA	0.00	17.21	16.74	NA
				SPH Recovered to Date:		**0.00**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Chevron (continued)			
B-10	03/24/95	15.08	0.00	15.08	19.66	NA
(34.74)	04/24/95	15.41	0.00	15.41	19.33	NA
	05/22/95	15.68	0.00	15.68	19.06	NA
	06/19/95	15.96	0.00	15.96	18.78	NA
	07/24/95	16.26	0.00	16.26	18.48	NA
	08/28/95	16.26	0.32	16.58	18.43	NA
	09/25/95	16.84	0.00	16.84	17.90	NA
	10/23/95	16.70	0.00	16.70	18.04	NA
	11/27/95	15.99	0.00	15.99	18.75	NA
	12/29/95	15.01	0.00	15.01	19.73	NA
	01/22/96	14.67	0.00	14.67	20.07	NA
	02/26/96	12.18	0.00	12.18	22.56	NA
	03/25/96	13.82	0.00	13.82	20.92	NA
	04/22/96	14.66	0.00	14.66	20.08	NA
	05/28/96	14.59	0.00	14.59	20.15	NA
	06/24/96	15.03	0.00	15.03	19.71	NA
	07/22/96	15.64	0.00	15.64	19.10	NA
	08/26/96	16.12	0.00	16.12	18.62	NA
	09/23/96	16.21	0.00	16.21	18.53	NA
	10/28/96	16.18	0.00	16.18	18.56	NA
				SPH Recovered to Date:		0.00
B-11	03/24/95	NA	0.00	15.22	19.73	NA
(34.95)	07/24/95	NA	0.00	16.08	18.87	NA
	10/23/95	NA	0.00	16.64	18.31	NA
	01/22/96	NA	0.00	15.73	19.22	NA
	04/22/96	NA	0.00	14.44	20.51	NA
	05/28/96	NA	0.00	14.46	20.49	NA
	07/22/96	NA	0.00	15.40	19.55	NA
	08/26/96	NA	0.00	15.91	19.04	NA
	09/23/96	NA	0.00	16.08	18.87	NA
	10/28/96	NA	0.00	16.14	18.81	NA
				SPH Recovered to Date:		0.00
B-12	08/26/96	NA	0.00	16.37	18.74	NA
(35.11)	09/23/96	NA	0.00	16.53	18.58	NA
				SPH Recovered to Date:		0.00

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Chevron (continued)			
B-13	08/26/96	NA	0.00	16.36	18.40	NA
(34.76)	09/23/96	NA	0.00	16.51	18.25	NA
	10/28/96	NA	0.00	16.59	18.17	NA
				SPH Recovered to Date:		**0.00**
B-14	04/24/95	NA	0.00	17.59	19.00	NA
(36.59)	07/24/95	NA	0.00	18.35	18.24	NA
	10/23/95	NA	0.00	18.84	17.75	NA
	01/22/96	NA	0.00	17.21	19.38	NA
	04/22/96	NA	0.00	15.80	20.79	NA
	05/28/96	NA	0.00	16.82	19.77	NA
	07/22/96	NA	0.00	17.70	18.89	NA
	08/26/96	NA	0.00	18.15	18.44	NA
	09/23/96	NA	0.00	18.31	18.28	NA
	10/28/96	NA	0.00	18.40	18.19	NA
				SPH Recovered to Date:		**0.00**
B-15	08/26/96	NA	0.00	17.32	18.23	NA
(35.55)	09/23/96	NA	0.00	17.47	18.08	NA
	10/28/96	NA	0.00	17.56	17.99	NA
				SPH Recovered to Date:		**0.00**
B-16	03/24/95	NA	0.00	16.99	18.83	NA
(35.82)	04/24/95	NA	0.00	17.12	18.70	NA
	05/22/95	NA	0.00	17.37	18.45	NA
	06/19/95	NA	0.00	17.59	18.23	NA
	07/24/95	NA	0.00	17.89	17.93	NA
	08/28/95	NA	0.00	8.10	27.72	NA
	09/25/95	NA	0.00	18.35	17.47	NA
	10/23/95	NA	0.00	18.30	17.52	NA
				SPH Recovered to Date:		**0.00**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Chevron (continued)			
B-19	03/24/95	NA	0.00	16.01	18.70	NA
(34.71)	04/24/95	NA	0.00	16.21	18.50	NA
	05/22/95	NA	0.00	16.45	18.26	NA
	06/19/95	NA	0.00	16.70	18.01	NA
	07/24/95	NA	0.00	17.09	17.62	NA
	08/28/95	NA	0.00	17.37	17.34	NA
	09/25/95	NA	0.00	17.56	17.15	NA
	10/23/95	NA	0.00	17.45	17.26	NA
	11/27/95	NA	0.00	16.86	17.85	NA
	12/29/95	NA	0.00	15.75	18.96	NA
	01/22/96	NA	0.00	15.54	19.17	NA
	02/26/96	NA	0.00	12.95	21.76	NA
	03/25/96	NA	0.00	14.80	19.91	NA
	04/22/96	NA	0.00	15.39	19.32	NA
	05/28/96	NA	0.00	15.31	19.40	NA
	06/24/96	NA	0.00	15.79	18.92	NA
	07/22/96	NA	0.00	16.35	18.36	NA
	08/26/96	NA	0.00	16.84	17.87	NA
	09/23/96	NA	0.00	16.97	17.74	NA
	10/28/96	NA	0.00	17.03	17.68	NA
				SPH Recovered to Date:		0.00
B-20	03/24/95	16.55	0.00	16.55	16.85	NA
(33.40)	04/24/95	16.93	0.00	16.93	16.47	NA
	05/22/95	16.96	0.00	16.96	16.44	NA
	06/19/95	17.20	0.00	17.20	16.20	NA
	07/24/95	17.95	0.19	18.14	15.42	NA
	08/28/95	18.30	0.37	18.67	15.04	NA
	09/25/95	18.26	0.01	18.27	15.14	NA
	10/23/95	18.04	0.00	18.04	15.36	NA
	11/27/95	17.11	0.01	17.12	16.29	NA
	12/29/95	16.17	0.01	16.18	17.23	NA
	01/22/96	15.20	0.00	15.20	18.20	NA
	02/26/96	13.55	0.01	13.56	19 85	NA
	03/25/96	15.99	0.00	15.99	17 41	NA
	04/22/96	15.88	0.00	15.88	17 52	NA
	05/28/96	15.59	0.00	15.59	17 81	NA
	06/24/96	16.29	0.00	16.29	17 11	NA
	07/22/96	17.13	0.00	17.13	16.27	NA
	08/26/96	17.62	0.00	17.62	15.78	NA
	09/23/96	17.59	1.05	18.64	15.65	NA
	10/28/96	17.50	0.43	17.93	15.84	NA
				SPH Recovered to Date:		0.00

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Chevron (continued)			
B-21	03/24/95	NA	0.00	16.23	18.56	NA
(34.79)	04/24/95	NA	0.00	16.42	18.37	NA
	05/22/95	NA	0.00	16.63	18.16	NA
	06/19/95	NA	0.00	16.83	17.96	NA
	07/24/95	NA	0.00	17.18	17.61	NA
	08/28/95	NA	0.00	17.43	17.36	NA
	09/25/95	NA	0.01	17.58	17.22	NA
	10/23/95	NA	0.00	17.53	17.26	NA
	11/27/95	NA	0.00	17.09	17.70	NA
	12/29/95	NA	0.00	16.07	18.72	NA
	01/22/96	NA	0.00	15.91	18.88	NA
	02/26/96	NA	0.00	13.30	21.49	NA
	03/25/96	NA	0.00	15.08	19.71	NA
	04/22/96	NA	0.00	15.77	19.02	NA
	05/28/96	NA	0.00	15.61	19.18	NA
	06/24/96	NA	0.00	16.01	18.78	NA
	07/22/96	NA	0.00	16.53	18.26	NA
	08/26/96	NA	0.00	16.95	17.84	NA
	09/23/96	NA	0.00	17.11	17.68	NA
	10/28/96	NA	0.00	17.20	17.59	NA
				SPH Recovered to Date:		**0.00**
B-24	03/24/95	15.87	0.01	15.88	18.83	NA
(34.70)	04/24/95	15.96	0.03	15.99	18.74	NA
	05/22/95	16.17	0.01	16.18	18.53	NA
	06/19/95	16.39	0.02	16.41	18.31	NA
	07/24/95	16.56	0.04	16.60	18.13	0.01
	08/28/95	16.81	0.00	16.81	17.89	NA
	09/25/95	17.02	0.00	17.02	17.68	0.03
	10/23/95	17.05	0.00	17.05	17.65	NA
	11/27/95	16.75	0.00	16.75	17.95	NA
	12/29/95	15.90	0.00	15.90	18.80	NA
	01/22/96	15.71	0.00	15.71	18.99	NA
	02/26/96	13.98	0.00	13.98	20.72	NA
	03/25/96	14.62	0.00	14.62	20.08	NA
	04/22/96	15.28	0.00	15.28	19.42	NA
	05/28/96	15.25	0.00	15.25	19.45	NA
	06/24/96	15.57	0.00	15.57	19.13	NA
	07/22/96	15.95	0.00	15.95	18.75	NA
	08/26/96	16.35	0.00	16.35	18.35	NA
	09/23/96	16.51	0.01	16.52	18.19	NA
	10/28/96	16.54	0.00	16.54	18.16	NA
				SPH Recovered to Date:		**0.04**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Chevron (continued)			
B-26	04/24/95	NA	0.00	15.81	19.49	NA
(35.30)	07/24/95	NA	0.00	16.69	18.61	NA
	10/23/95	NA	0.00	17.16	18.14	NA
	01/22/96	NA	0.00	15.23	20.07	NA
	04/22/96	NA	0.00	14.85	20.45	NA
	05/28/96	NA	0.00	14.95	20.35	NA
	07/22/96	NA	0.00	16.03	19.27	NA
	08/26/96	16.52	0.00	16.52	18.78	NA
	09/23/96	16.63	0.00	16.63	18.67	NA
	10/28/96	16.68	0.00	16.68	18.62	NA
				SPH Recovered to Date:		**0.00**
B-28	04/24/95	NA	0.00	15.02	20.23	NA
(35.25)	07/24/95	NA	0.00	16.14	19.11	NA
	10/23/95	NA	0.00	16.40	18.85	NA
	01/22/96	NA	0.00	15.25	20.00	NA
	04/22/96	NA	0.00	14.62	20.63	NA
	05/28/96	NA	0.00	14.68	20.57	NA
	07/22/96	NA	0.00	15.51	19.74	NA
	10/28/96	NA	0.00	15.98	19.27	NA
				SPH Recovered to Date:		**0.00**
B-30	04/24/95	NA	0.00	15.60	19.75	NA
(35.35)	07/24/95	NA	0.00	15.96	19.39	NA
	10/23/95	NA	0.00	16.51	18.84	NA
	01/22/96	NA	0.00	14.51	20.84	NA
	04/22/96	NA	0.00	14.12	21.23	NA
	05/28/96	NA	0.00	14.68	20.67	NA
	07/22/96	NA	0.00	15.22	20.13	NA
	10/28/96	NA	0.00	15.94	19.41	NA
				SPH Recovered to Date:		**0.00**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Chevron (continued)			
B-31	03/24/95	NA	0.00	14.49	19.37	NA
(33.86)	04/24/95	NA	0.00	15.30	18.56	NA
	05/22/95	NA	0.00	15.98	17.88	NA
	06/19/95	NA	0.00	16.74	17.12	NA
	07/24/95	NA	0.00	16.89	16.97	NA
	08/28/95	NA	0.00	17.15	16.71	NA
	09/25/95	NA	0.00	16.97	16.89	NA
	10/23/95	16.52	0.00	16.44	17.42	NA
	11/27/95	16.63	0.00	13.42	20.44	NA
	12/29/95	14.36	0.00	14.36	19.50	NA
	01/22/96	NA	0.00	15.73	18.13	NA
	02/26/96	NA	0.00	12.56	21.30	NA
	03/25/96	NA	0.00	16.06	17.80	NA
	04/22/96	NA	0.00	12.56	21.30	NA
	05/28/96	NA	0.00	14.61	19.25	NA
	06/24/96	NA	0.00	14.04	19.82	NA
	07/22/96	NA	0.00	15.84	18.02	NA
	08/26/96	NA	0.00	16.71	17.15	NA
	09/23/96	16.52	0.00	16.47	17.39	NA
	10/28/96	16.63	0.00	15.90	17.96	NA
				SPH Recovered to Date:		**0.00**
B-32	03/24/95	16.03	0.00	16.03	18.20	NA
(34.23)	04/24/95	16.31	0.26	16.57	17.88	NA
	05/22/95	16.76	0.00	16.76	17.47	NA
	06/19/95	17.10	0.00	17.10	17.13	NA
	07/24/95	17.59	0.00	17.59	16.64	NA
	08/28/95	17.94	0.00	17.94	16.29	NA
	09/25/95	18.11	0.00	18.11	16.12	NA
	10/23/95	17.98	0.00	17.98	16.25	NA
	11/27/95	17.25	0.00	17.25	16.98	NA
	12/29/95	16.09	0.00	16.09	18.14	NA
	01/22/96	NA	0.00	15.73	18.50	NA
	02/26/96	NA	0.00	12.72	21.51	NA
	03/25/96	NA	0.00	15.45	18.78	NA
	04/22/96	NA	0.00	15.75	18.48	NA
	05/28/96	NA	0.00	15.37	18.86	NA
	06/24/96	NA	0.00	16.01	18.22	NA
	07/22/96	NA	0.00	16.86	17.37	NA
	08/26/96	NA	0.00	17.37	16.86	NA
	09/23/96	NA	0.00	17.61	16.62	NA
	10/28/96	NA	0.00	17.57	16.66	NA
				SPH Recovered to Date:		**0.00**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Chevron (continued)			
CR-3	04/24/95	NA	0.00	14.09	20.23	NA
(34.32)	07/24/95	NA	0.00	15.25	19.07	NA
	10/23/95	NA	0.00	15.81	18.51	NA
	01/22/96	NA	0.00	10.42	23.90	NA
	04/22/96	NA	0.00	12.68	21.64	NA
	05/28/96	NA	0.00	13.61	20.71	NA
	07/22/96	NA	0.00	14.62	19.70	NA
	08/26/96	NA	0.00	15.13	19.19	NA
	09/23/96	NA	0.00	15.28	19.04	NA
	10/28/96	NA	0.00	14.79	19.53	NA
				SPH Recovered to Date:		**0.00**
CR-4	04/24/95	NA	0.00	5.13	29.80	NA
(34.93)	07/24/95	NA	0.00	6.90	28.03	NA
	01/22/96	NA	0.00	4.70	30.23	NA
	05/28/96	NA	0.00	4.99	29.94	NA
	07/22/96	NA	0.00	6.48	28.45	NA
	10/28/96	NA	0.00	6.35	28.58	NA
				SPH Recovered to Date:		**0.00**
CR-6	03/24/95	12.07	0.01	12.08	23.54	NA
(35.61)	04/24/95	12.03	0.01	12.04	23.58	NA
	05/22/95	12.51	0.01	12.52	23.10	NA
	06/19/95	10.16	0.00	10.16	25.45	NA
	07/24/95	14.86	0.01	14.87	20.75	0.02
	08/28/95	14.51	0.01	14.52	21.10	0.02
	09/25/95	15.46	0.01	15.47	20.15	0.05
	10/23/95	15.50	0.00	15.50	20.11	NA
	12/29/95	8.81	0.00	8.81	26.80	NA
	01/22/96	12.02	0.01	12.03	23.59	0.04
	02/26/96	10.71	0.00	10.71	24.90	NA
	03/25/96	11.28	0.00	11.28	24.33	NA
	05/28/96	11.49	0.00	11.49	24.12	NA
	06/24/96	11.35	0.00	11.35	24.26	NA
	07/22/96	12.57	0.01	12.58	23.04	0.01
	08/26/96	13.03	0.02	13.05	22.58	0.02
	09/23/96	13.05	0.03	13.08	22.56	NA
	10/28/96	12.85	0.04	12.89	22.75	NA
				SPH Recovered to Date:		**0.17**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Chevron (continued)			
CR-7	03/24/95	10.01	0.48	10.49	25.49	NA
(35.57)	04/24/95	10.19	0.57	10.76	25.29	NA
	05/22/95	10.76	0.75	11.51	24.70	NA
	06/19/95	11.25	0.15	11.40	24.30	NA
	07/24/95	11.80	0.01	11.81	23.77	0.13
	08/28/95	12.20	0.00	12.20	23.37	0.029
	09/25/95	12.48	0.00	12.48	23.09	0.03
	10/23/95	11.98	0.00	11.98	23.59	0.00
	11/27/95	10.73	0.00	10.73	24.84	NA
	12/29/95	10.23	0.05	10.28	25.33	0.00
	01/22/96	9.91	0.21	10.12	25.63	0.12
	02/26/96	8.50	0.50	9.00	27.00	0.15
	03/25/96	9.81	0.02	9.83	25.76	0.01
	04/22/96	10.21	0.12	10.33	25.34	NA
	05/28/96	9.82	0.31	10.13	25.70	0.38
	06/24/96	10.78	0.20	10.98	24.76	0.69
	07/22/96	11.35	0.22	11.57	24.19	0.45
	08/26/96	11.84	0.12	11.96	23.71	0.13
	09/23/96	11.94	0.03	11.97	23.63	NA
	10/28/96	11.51	0.02	11.53	24.06	NA
				SPH Recovered to Date:		2.12
CR-8	04/24/95	NA	0.00	6.41	26.73	NA
(33.14)	07/24/95	NA	0.00	8.22	24.92	NA
	10/23/95	NA	0.00	8.08	25.06	NA
	01/22/96	NA	0.00	6.21	26.93	NA
	04/22/96	NA	0.00	6.47	26.67	NA
	05/28/96	NA	0.00	6.31	26.83	NA
	07/22/96	NA	0.00	7.08	26.06	NA
	10/28/96	NA	0.00	7.71	25.43	NA
				SPH Recovered to Date:		0.00

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Chevron (continued)			
CR-10	03/24/95	5.34	0.03	5.37	30.23	NA
(35.57)	04/24/95	4.27	0.08	4.35	31.29	NA
	05/22/95	5.31	0.09	5.40	30.25	NA
	06/19/95	6.30	0.08	6.38	29.26	NA
	07/24/95	9.22	0.00	9.22	26.35	NA
	08/28/95	10.15	0.00	10.15	25.42	0.40
	09/25/95	10.82	0.00	10.82	24.75	NA
	10/23/95	9.44	0.00	9.44	26.13	NA
	12/29/95	7.54	0.00	7.54	28.03	NA
	01/22/96	6.96	0.05	7.01	28.60	NA
	02/26/96	6.76	0.17	6.93	28.78	0.13
	03/25/96	7.62	0.00	7.62	27.95	5.16
	04/22/96	7.69	0.00	7.69	27.88	NA
	07/22/96	1.28	0.05	1.23	34.38	NA
					SPH Recovered to Date:	5.69
CR-11	03/24/95	1.19	0.00	1.19	33.24	NA
(34.43)	04/24/95	1.34	0.00	1.34	33.09	NA
	05/22/95	2.49	0.00	2.49	31.94	NA
	06/19/95	2.94	0.00	2.94	31.49	NA
	07/24/95	3.68	0.00	3.68	30.75	NA
	08/28/95	4.18	0.00	4.18	30.25	NA
	09/25/95	4.83	0.00	4.83	29.60	NA
	10/23/95	4.59	0.00	4.59	29.84	NA
	11/27/95	3.61	0.00	3.61	30.82	NA
	12/29/95	1.83	0.00	1.83	32.60	NA
	01/22/96	1.78	0.00	1.78	32.65	NA
	02/26/96	1.13	0.00	1.13	33.30	NA
	03/25/96	1.27	0.00	1.27	33.16	NA
	04/22/96	1.40	0.00	1.40	33.03	NA
	05/28/96	1.45	0.00	1.45	32.98	NA
	06/24/96	2.39	0.00	2.39	32.04	NA
	07/22/96	3.35	0.00	3.35	31.08	NA
	08/26/96	4.10	0.00	4.10	30.33	NA
	09/23/96	4.35	0.00	4.35	30.08	NA
	10/28/96	3.12	0.02	3.14	31.31	NA
					SPH Recovered to Date:	0.00
					Chevron total SPH Recovered to Date:	8.02

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Shell/GATX			
MW-1	04/24/95	NA	0.00	3.55	31.88	NA
(35.43)	07/24/95	NA	0.00	6.26	29.17	NA
	10/23/95	NA	0.00	5.85	29.58	NA
	01/22/96	NA	0.00	2.92	32.51	NA
	04/22/96	NA	0.00	4.01	31.42	NA
	07/22/96	NA	0.00	6.92	28.51	NA
	10/28/96	NA	0.00	5.35	30.08	NA
				SPH Recovered to Date:		0.00
MW-3	03/06/95	NA	0.00	6.79	29.23	NA
(36.02)	03/27/95	NA	0.00	6.65	29.37	NA
	04/24/95	NA	0.00	6.98	29.04	NA
	07/24/95	NA	0.00	8.63	27.39	NA
	10/23/95	NA	0.00	9.62	26.40	NA
	01/22/96	8.96	0.00	8.96	27.06	NA
	04/22/96	NA	0.00	6.34	29.68	NA
	07/22/96	NA	0.00	8.47	27.55	NA
	10/28/96	NA	0.00	8.70	27.32	NA
				SPH Recovered to Date:		0.00
MW-4	04/24/95	NA	0.00	6.35	30.04	NA
(36.39)	07/24/95	NA	0.00	8.17	28.22	NA
	10/23/95	NA	0.00	9.16	27.23	NA
	01/22/96	NA	0.00	5.20	31.19	NA
	04/22/96	NA	0.00	5.59	30.80	NA
	07/22/96	NA	0.00	7.97	28.42	NA
	10/28/96	NA	0.00	8.14	28.25	NA
				SPH Recovered to Date:		0.00
MW-5	04/24/95	NA	0.00	5.29	28.23	NA
(33.52)	07/24/95	NA	0.00	7.12	26.40	NA
	10/23/95	NA	0.00	8.56	24.96	NA
	01/22/96	NA	0.00	4.32	29.20	NA
	04/22/96	NA	0.00	4.73	28.79	NA
	07/22/96	NA	0.00	6.98	26.54	NA
	10/28/96	NA	0.00	7.60	25.92	NA
				SPH Recovered to Date:		0.00

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Shell/GATX (continued)			
MW-6	03/06/95	3.34	0.20	3.54	29.97	NA
(33.34)	03/27/95	3.05	0.68	3.73	30.19	NA
	04/24/95	3.29	0.89	4.18	29.92	NA
	05/22/95	3.80	0.03	3.83	29.54	1.50
	06/19/95	4.64	0.00	4.64	28.70	1.35
	07/24/95	5.15	0.00	5.15	28.19	0.00
	08/28/95	5.90	0.00	5.90	27.44	NA
	09/25/95	6.50	0.00	6.50	26.84	NA
	10/23/95	6.22	0.00	6.22	27.12	NA
	11/27/95	4.37	0.00	4.37	28.97	NA
	12/29/95	3.76	0.19	3.95	29.55	NA
	01/22/96	2.50	0.35	2.85	30.79	NA
	02/26/96	2.07	0.01	2.08	31.27	0.00
	03/25/96	3.34	0.00	3.34	30.00	0.18
	04/22/96	3.18	0.00	3.18	30.16	0.00
	05/28/96	3.23	0.00	3.23	30.11	0.06
	06/24/96	4.35	0.00	4.35	28.99	0.00
	07/22/96	5.08	0.00	5.08	28.26	0.00
	08/26/96	5.89	0.00	5.89	27.45	0.00
	09/23/96	5.54	0.00	5.54	27.80	NA
	10/28/96	5.19	0.00	5.19	28.15	NA
				SPH Recovered to Date:		3.09
MW-7	03/06/95	7.96	0.04	8.00	26.15	NA
(34.12)	03/27/95	7.88	0.06	7.94	25.45	NA
	04/24/95	8.18	0.00	8.18	25.16	NA
	05/22/95	8.51	0.34	8.85	24.78	NA
	06/19/95	8.93	0.39	9.32	24.35	NA
	07/24/95	9.35	0.15	9.50	23.97	0.06
	08/28/95	9.79	0.21	10.00	23.52	NA
	09/25/95	10.13	0.38	10.51	23.15	NA
	10/23/95	7.04	0.43	7.47	26.24	NA
	11/27/95	9.00	0.00	9.00	24.34	NA
	12/29/95	8.13	0.03	8.16	25.21	0.37
	01/22/96	7.44	0.00	7.44	25.90	0.08
	02/26/96	6.20	0.00	6.20	27.14	NA
	03/25/96	7.50	0.20	7.70	25.81	NA
	04/22/96	7.84	0.11	7.95	25.48	0.12
	05/28/96	7.70	0.10	7.80	25.63	0.12
	06/24/96	8.36	0.12	8.48	24.96	0.37
	07/22/96	8.98	0.30	9.28	24.32	NA
	08/26/96	9.52	0.30	9.82	23.78	NA
	09/23/96	9.55	0.38	9.93	23.73	NA
	10/28/96	9.30	0.48	9.78	23.97	NA
				SPH Recovered to Date:		1.12

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Shell/GATX (continued)			
MW-8	04/24/95	NA	0.00	7.27	26.68	NA
(33.95)	07/24/95	NA	0.00	8.53	25.42	NA
	10/23/95	NA	0.00	9.45	24.50	NA
	01/22/96	NA	0.00	6.45	27.50	NA
	04/22/96	NA	0.00	6.99	26.96	NA
	07/22/96	NA	0.00	8.30	25.65	NA
	10/28/96	NA	0.00	8.76	25.19	NA
				SPH Recovered to Date:		0.00
MW-9	04/24/95	NA	0.00	9.67	26.86	NA
(36.53)	07/24/95	NA	0.00	10.85	25.68	NA
	10/23/95	NA	0.00	11.86	24.67	NA
	01/22/96	NA	0.00	9.57	26.96	NA
	04/22/96	NA	0.00	9.47	27.06	NA
	07/22/96	NA	0.00	10.34	26.19	NA
	10/28/96	NA	0.00	11.32	25.21	NA
				SPH Recovered to Date:		0.00
MW-10	04/24/95	NA	0.00	8.54	27.28	NA
(35.82)	07/24/95	NA	0.00	10.25	25.57	NA
	10/23/95	NA	0.00	11.20	24.62	NA
	01/22/96	NA	0.00	7.31	28.51	NA
	04/22/96	NA	0.00	8.09	27.73	NA
	07/22/96	NA	0.00	9.87	25.95	NA
	10/28/96	NA	0.00	10.22	25.60	NA
				SPH Recovered to Date:		0.00

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Shell/GATX (continued)			
MW-11	03/06/95	NA	0.00	5.09	31.38	NA
(36.47)	03/27/95	5.25	0.00	5.25	31.22	NA
	04/24/95	5.36	0.00	5.36	31.11	NA
	05/22/95	6.11	0.00	6.11	30.36	NA
	06/19/95	6.52	0.00	6.52	29.95	NA
	07/24/95	7.10	0.00	7.10	29.37	NA
	08/28/95	8.00	0.00	8.00	28.47	NA
	09/25/95	8.12	0.00	8.12	28.35	NA
	10/23/95	7.39	0.00	7.39	29.08	NA
	11/27/95	5.25	0.00	5.25	31.22	NA
	12/29/95	5.65	0.00	5.65	30.82	NA
	01/22/96	4.50	0.00	4.50	31.97	NA
	02/26/96	3.69	0.00	3.69	32.78	NA
	03/25/96	5.50	0.00	5.50	30.97	NA
	04/22/96	5.15	0.00	5.15	31.32	NA
	05/28/96	5.29	0.00	5.29	31.18	NA
	06/24/96	6.27	0.00	6.27	30.20	NA
	07/22/96	7.04	0.00	7.04	29.43	NA
	08/26/96	7.86	0.00	7.86	28.61	NA
	09/23/96	7.20	0.00	7.20	29.27	NA
	10/28/96	6.33	0.00	6.33	30.14	NA
	11/25/96	4.94	0.00	4.94	31.53	NA
	12/23/96	4.68	0.00	7.68	28.79	NA
				SPH Recovered to Date:		0.00
MW-12	04/24/95	NA	0.00	5.22	30.73	NA
(35.95)	07/24/95	NA	0.00	7.30	28.65	NA
	10/23/95	NA	0.00	8.33	27.62	NA
	01/22/96	NA	0.00	3.83	32.12	NA
	04/22/96	NA	0.00	4.34	31.61	NA
	07/22/96	NA	0.00	7.15	28.80	NA
	10/28/96	NA	0.00	7.37	28.58	NA
				SPH Recovered to Date:		0.00

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Shell/GATX (continued)			
MW-13	04/24/95	NA	0.00	4.41	33.48	NA
(37.89)	07/24/95	NA	0.00	6.29	31.60	NA
	10/23/95	NA	0.00	6.67	31.22	NA
	01/22/96	NA	0.00	3.65	34.24	NA
	04/22/96	NA	0.00	4.18	33.71	NA
	07/22/96	NA	0.00	6.28	31.61	NA
	10/28/96	NA	0.00	5.61	32.28	NA
				SPH Recovered to Date:		**0.00**
MW-14	04/24/95	NA	0.00	3.33	32.95	NA
(36.28)	07/24/95	NA	0.00	5.62	30.66	NA
	10/23/95	NA	0.00	5.96	30.32	NA
	01/22/96	NA	0.00	2.71	33.57	NA
	04/22/96	NA	0.00	3.25	33.03	NA
	07/22/96	NA	0.00	5.68	30.60	NA
	10/28/96	NA	0.00	5.30	30.98	NA
				SPH Recovered to Date:		**0.00**
MW-16	07/24/95	NA	0.00	5.78	29.15	NA
(34.93)	10/23/95	NA	0.00	6.73	28.20	NA
	01/22/96	NA	0.00	2.44	32.49	NA
	04/22/96	NA	0.00	3.46	31.47	NA
	07/22/96	NA	0.00	5.63	29.30	NA
	10/28/96	NA	0.00	5.90	29.03	NA
				SPH Recovered to Date:		**0.00**
MW-18	04/24/95	NA	0.00	1.66	32.10	NA
(33.76)	07/24/95	NA	0.00	3.02	30.74	NA
	10/23/95	NA	0.00	3.43	30.33	NA
	01/22/96	NA	0.00	1.08	32.68	NA
	04/22/96	NA	0.00	0.89	32.87	NA
	07/22/96	NA	0.00	2.83	30.93	NA
	10/28/96	NA	0.00	2.48	31.28	NA
				SPH Recovered to Date:		**0.00**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Shell/GATX (continued)			
MW-19	03/06/95	2.77	0.49	3.26	30.55	NA
(33.39)	03/27/95	2.57	0.51	3.08	30.74	NA
	04/24/95	2.79	0.54	3.33	30.52	NA
	05/22/95	3.19	0.51	3.70	30.12	NA
	06/19/95	3.87	0.61	4.48	29.43	NA
	07/24/95	4.41	0.01	4.42	28.98	0.31
	08/28/95	5.64	0.00	5.64	27.75	0.03
	09/25/95	6.80	0.00	6.80	26.59	NA
	10/23/95	5.48	0.00	5.48	27.91	NA
	11/27/95	3.79	0.00	3.79	29.60	NA
	12/29/95	3.23	0.00	3.23	30.16	NA
	01/22/96	2.18	0.00	2.18	31.21	NA
	02/26/96	1.57	0.00	1.57	31.82	NA
	03/25/96	2.56	0.00	2.56	30.83	NA
	04/22/96	1.77	0.00	1.77	31.62	NA
	05/28/96	2.11	0.00	2.11	31.28	NA
	06/24/96	2.93	0.00	2.93	30.46	NA
	07/22/96	3.61	0.00	3.61	29.78	NA
	08/26/96	4.31	0.00	4.31	29.08	NA
	09/23/96	3.65	0.00	3.65	29.74	NA
	10/28/96	1.95	0.00	1.95	31.44	NA
				SPH Recovered to Date:		0.34
MW-20	04/24/95	NA	0.00	9.55	25.21	NA
(34.76)	07/24/95	NA	0.00	10.73	24.03	NA
	10/23/95	NA	0.00	11.35	23.41	NA
	01/22/96	NA	0.00	8.50	26.26	NA
	04/22/96	NA	0.00	9.53	25.23	NA
	07/22/96	NA	0.00	10.41	24.35	NA
	09/23/96	11.08	0.00	11.08	23.68	NA
	10/28/96	NA	0.00	10.74	24.02	NA
				SPH Recovered to Date:		0.00

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Shell/GATX (continued)			
MW-21	04/24/95	NA	0.00	1.48	32.85	NA
(34.33)	07/24/95	NA	0.00	2.21	32.12	NA
	10/23/95	NA	0.00	2.04	32.29	NA
	01/22/96	NA	0.00	1.08	33.25	NA
	04/22/96	NA	0.00	0.78	33.55	NA
	07/22/96	NA	0.00	2.24	32.09	NA
	10/28/96	NA	0.00	1.97	32.36	NA
					SPH Recovered to Date:	**0.00**
MW-22	03/06/95	NA	0.00	3.32	32.33	NA
(35.65)	03/27/95	3.23	0.00	3.23	32.42	NA
	04/24/95	3.25	0.00	3.25	32.40	NA
	05/22/95	3.93	0.00	3.93	31.72	NA
	06/19/95	4.34	0.00	4.34	31.31	NA
	07/24/95	4.83	0.00	4.83	30.82	NA
	08/28/95	5.35	0.00	5.35	30.30	NA
	09/25/95	5.94	0.00	5.94	29.71	NA
	10/23/95	5.24	0.00	5.24	30.41	NA
	11/27/95	4.04	0.00	4.04	31.61	NA
	12/28/95	3.26	0.00	3.26	32.39	NA
	01/22/96	2.77	0.00	2.77	32.88	NA
	02/26/96	2.42	0.00	2.42	33.23	NA
	03/25/96	3.47	0.00	3.47	32.18	NA
	04/22/96	3.32	0.00	3.32	32.33	NA
	05/28/96	3.06	0.00	3.06	32.59	NA
	06/24/96	3.93	0.00	3.93	31.72	NA
	07/22/96	4.55	0.00	4.55	31.10	NA
	08/26/96	6.85	0.00	6.85	28.80	NA
	09/23/96	5.66	0.00	5.66	29.99	NA
	10/28/96	4.80	0.00	4.80	30.85	NA
					SPH Recovered to Date:	**0.00**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Shell/GATX (continued)			
MW-23	03/27/95	9.42	0.00	9.42	26.64	NA
(36.06)	04/24/95	3.97	0.00	3.97	32.09	NA
	05/22/95	4.50	0.00	4.50	31.56	NA
	06/26/95	4.75	0.00	4.75	31.31	NA
	07/24/95	5.07	0.00	5.07	30.99	NA
	08/28/95	5.44	0.11	5.55	30.60	NA
	09/25/96	5.78	0.22	6.00	30.25	NA
	10/23/95	5.15	0.00	5.15	30.91	NA
	11/27/95	3.56	0.00	3.56	32.50	NA
	12/28/95	4.27	0.00	4.27	31.79	NA
	01/22/96	NA	0.00	3.49	32.57	NA
	02/26/96	3.59	0.00	3.59	32.47	NA
	03/25/96	4.24	0.00	4.24	31.82	NA
	04/22/96	3.23	0.00	3.23	32.83	NA
	05/28/96	3.97	0.00	3.97	32.09	NA
	06/24/96	4.46	0.00	4.46	31.60	NA
	07/22/96	5.02	0.03	5.05	31.04	NA
	08/28/96	5.80	0.02	5.80	30.28	NA
	09/23/96	5.30	0.06	5.36	30.75	NA
	10/28/96	4.73	0.00	4.73	31.33	NA
				SPH Recovered to Date:		**0.00**
MW-24	03/06/95	4.15	0.83	4.98	30.88	NA
(35.15)	03/27/96	4.28	0.90	5.18	30.74	NA
	04/24/95	5.31	0.94	4.37	31.58	NA
	05/22/95	4.96	0.01	4.95	30.21	NA
	06/26/95	6.50	1.90	8.40	28.37	NA
	07/24/95	7.25	0.24	7.49	27.86	NA
	08/28/95	8.42	1.58	10.00	26.49	NA
	12/01/95	NM	NM	NM	NM	28.1
				SPH Recovered to Date:		**29.3**
MW-25	09/23/96	11.69	0.00	11.69	23.04	NA
(34.73)	10/28/96	NA	0.00	11.22	23.51	NA
	11/25/96	NA	0.00	9.95	24.78	NA
	12/23/96	NA	0.00	9.72	25.01	NA
	04/22/96	10.00	0.24	10.24	24.69	NA
				SPH Recovered to Date:		**0.00**
MW-26	07/22/96	11.39	0.43	11.82	23.33	NA
(34.78)	09/23/96	11.85	0.25	12.10	22.89	NA
	10/28/96	11.38	0.03	11.41	23.40	NA
				SPH Recovered to Date:		**0.00**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Shell/GATX (continued)			
MW-27	02/26/96	3.94	0.00	3.94	31.73	NA
(35.67)	03/25/96	4.73	0.00	4.73	30.94	NA
	04/22/96	3.71	0.00	3.71	31.96	NA
	05/28/96	4.54	0.00	4.54	31.13	NA
	06/24/96	5.34	0.00	5.34	30.33	NA
	07/22/96	5.73	0.00	5.73	29.94	NA
	08/26/96	5.96	0.00	5.96	29.71	NA
	09/23/96	6.81	0.00	6.81	28.86	NA
	10/28/96	5.35	0.00	5.35	30.32	NA
	11/25/96	3.34	0.00	3.34	32.33	NA
	12/23/96	4.04	0.00	4.04	31.63	NA
	---------- Not Measured Floating Product Present ----------					
				SPH Recovered to Date:		**0.0**
MW-28	03/06/95	NA	0.00	4.41	29.98	NA
(34.39)	03/27/95	4.74	0.01	4.75	29.65	NA
	04/24/95	5.26	0.00	5.26	29.13	NA
	05/22/95	6.00	0.02	6.02	28.39	NA
	06/26/95	6.50	0.09	6.59	27.88	NA
	07/24/95	6.94	0.00	6.94	27.45	NA
	08/28/95	8.04	0.01	8.05	26.35	0.75
	09/25/96	11.75	0.00	11.75	22.64	1.03
	10/23/95	7.60	0.00	7.60	26.79	NA
	11/27/95	4.04	0.00	4.04	30.35	0.03
	12/28/95	4.25	0.00	4.25	30.14	NA
	01/22/96	2.29	0.00	2.29	32.10	NA
	02/26/96	3.78	0.00	3.78	30.61	NA
	03/25/96	5.10	0.00	5.10	29.29	NA
	04/22/96	4.22	0.00	4.22	30.17	NA
	05/28/96	4.66	0.00	4.66	29.73	NA
	06/24/96	6.01	0.00	6.01	28.38	NA
	07/22/96	6.77	0.00	6.77	27.62	NA
	08/28/96	7.56	0.00	7.56	26.83	NA
	09/23/96	6.28	0.00	6.28	28.11	NA
	10/28/96	5.03	0.00	5.03	29.36	NA
				SPH Recovered to Date:		**1.81**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Shell/GATX (continued)			
MW-29	04/24/95	NA	0.00	13.34	22.43	NA
(35.77)	07/24/95	NA	0.00	14.20	21.57	NA
	10/23/95	NA	0.00	14.86	20.91	NA
	01/22/96	NA	0.00	12.70	23.07	NA
	04/22/96	NA	0.00	12.75	23.02	NA
	07/22/96	NA	0.00	13.64	22.13	NA
	10/28/96	NA	0.00	14.15	21.62	NA
					SPH Recovered to Date:	0.0
MW-31	03/06/95	NA	0.00	5.64	31.91	NA
(37.55)	03/27/95	5.75	0.01	5.76	31.80	NA
	04/24/95	6.09	0.00	6.09	31.46	NA
	05/22/95	6.70	0.00	6.70	30.85	NA
	06/26/95	7.26	0.00	7.26	30.29	NA
	07/24/95	7.74	0.00	7.74	29.81	NA
	08/28/95	8.41	0.00	8.41	29.14	NA
	09/25/96	8.96	0.00	8.96	28.59	NA
	10/23/95	8.56	0.00	8.56	28.99	NA
	11/27/95	6.33	0.00	6.33	31.22	NA
	12/28/95	5.90	0.00	5.90	31.65	NA
	01/22/96	4.62	0.00	4.62	32.93	NA
	02/26/96	4.92	0.00	4.92	32.63	NA
	03/25/96	6.02	0.00	6.02	31.53	NA
	04/22/96	5.57	0.00	5.57	31.98	NA
	05/28/96	5.73	0.00	5.73	31.82	NA
	06/24/96	6.72	0.00	6.72	30.83	NA
	07/22/96	7.38	0.00	7.38	30.17	NA
	08/28/96	8.02	0.00	8.02	29.53	NA
	09/23/96	7.48	0.00	7.48	30.07	NA
	10/28/96	6.68	0.00	6.68	30.87	NA
					SPH Recovered to Date:	0.0

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Shell/GATX (continued)			
MW-32	04/24/95	NA	0.00	4.27	32.74	NA
(37.01)	07/24/95	NA	0.00	5.75	31.26	NA
	10/23/95	NA	0.00	6.40	30.61	NA
	01/22/96	NA	0.00	3.23	33.78	NA
	04/22/96	NA	0.00	3.89	33.12	NA
	07/22/96	NA	0.00	5.45	31.56	NA
	10/28/96	NA	0.00	5.59	31.42	NA
				SPH Recovered to Date:		**0.0**
MW-33	04/24/95	NA	0.00	19.93	19.41	NA
(39.34)	07/24/95	NA	0.00	20.68	18.66	NA
	10/23/95	NA	0.00	21.05	18.29	NA
	01/22/96	NA	0.00	19.07	20.27	NA
	04/22/96	NA	0.00	19.48	19.86	NA
	07/22/96	NA	0.00	20.26	19.08	NA
	10/28/96	NA	0.00	20.58	18.76	NA
				SPH Recovered to Date:		**0.0**
MW-34	04/24/95	NA	0.00	19.40	20.27	NA
(39.67)	07/24/95	NA	0.00	19.99	17.02	NA
	10/23/95	NA	0.00	20.26	16.75	NA
	01/22/96	NA	0.00	18.71	18.30	NA
	04/22/96	NA	0.00	19.43	17.58	NA
	07/22/96	NA	0.00	19.74	17.27	NA
	10/28/96	NA	0.00	20.18	16.83	NA
				SPH Recovered to Date:		**0.0**
MW-36	04/24/95	NA	0.00	19.40	15.48	NA
(34.88)	07/24/95	NA	0.00	19.99	14.89	NA
	10/23/95	NA	0.00	20.26	14.62	NA
	01/22/96	NA	0.00	13.74	21.14	NA
	04/22/96	NA	0.00	13.72	21.16	NA
	07/22/96	NA	0.00	14.90	19.98	NA
	10/28/96	NA	0.00	15.54	19.34	NA
				SPH Recovered to Date:		**0.0**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Shell/GATX (continued)			
MW-37	04/24/95	NA	0.00	14.96	19.90	NA
(34.86)	07/24/95	NA	0.00	15.88	18.98	NA
	10/23/95	NA	0.00	16.37	18.49	NA
	01/22/96	NA	0.00	14.22	20.64	NA
	04/22/96	NA	0.00	13.72	21.14	NA
	07/22/96	NA	0.00	15.28	19.58	NA
	10/28/96	NA	0.00	15.80	19.06	NA
				SPH Recovered to Date:		**0.0**
MW-39	06/24/96	13.01	0.00	13.01	22.01	NA
(35.02)	07/22/96	13.45	0.00	13.45	21.57	NA
	08/26/96	13.90	0.00	13.90	21.12	NA
	09/23/96	14.08	0.00	14.08	20.94	NA
	10/28/96	14.00	0.00	14.00	21.02	NA
				SPH Recovered to Date:		**0.0**
MW-40	06/24/96	13.81	0.00	13.81	19.84	NA
(33.65)	07/22/96	14.32	0.00	14.32	19.33	NA
	08/26/96	14.77	0.00	14.77	18.88	NA
	09/23/96	14.83	0.00	14.83	18.82	NA
	10/28/96	14.63	0.00	14.63	19.02	NA
				SPH Recovered to Date:		0.0
				Shell/GATX total SPH Recovered to Date:		35.66

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Unocal			
B-1	04/24/95	17.42	0.49	17.91	17.30	NA
(34.79)	05/22/95	17.57	0.47	18.04	17.15	NA
	06/26/95	17.75	0.48	18.23	16.97	NA
	07/24/95	17.98	0.02	18.00	16.81	0.0
	08/28/95	18.32	0.02	18.34	16.47	NA
	09/25/95	18.37	0.14	18.51	16.40	NA
	10/23/95	18.30	0.01	18.31	16.49	NA
	11/27/95	17.94	0.03	17.97	16.85	0.01
	12/28/95	16.75	0.16	16.91	18.02	0.85
	01/22/96	16.73	0.12	16.85	18.04	0.01
	02/26/96	13.40	0.02	13.42	21.39	0.08
	04/22/96	16.20	0.15	16.35	18.57	0.01
	05/28/96	16.21	0.00	16.21	18.58	NA
	06/24/96	16.68	0.01	16.69	18.11	NA
	07/22/96	17.20	0.02	17.22	17.59	NA
	08/23/96	17.49	0.03	17.52	17.30	NA
	09/23/96	17.72	0.01	17.73	17.07	NA
	10/28/96	17.18	0.01	17.19	17.61	NA
				SPH Recovered to Date:		0.96
B-2	03/28/95	NA	0.00	16.84	18.51	NA
(35.35)	04/24/95	NA	0.00	17.02	18.33	NA
	05/22/95	NA	0.00	17.22	18.13	NA
	06/26/95	NA	0.00	17.48	17.87	NA
	08/28/95	19.58	0.26	19.84	15.73	NA
	09/25/95	NA	0.00	18.18	17.17	NA
	10/23/95	NA	0.00	18.15	17.20	NA
	12/28/95	NA	0.00	16.56	18.79	NA
	01/22/96	16.48	0.02	16.50	18.87	NA
	04/22/96	NA	0.00	16.28	19.07	NA
	05/28/96	NA	0.00	16.14	19.21	NA
	06/24/96	NA	0.00	16.50	18.85	NA
	07/22/96	NA	0.00	16.99	18.36	NA
	08/23/96	NA	0.00	17.48	17.87	NA
	09/23/96	NA	0.00	17.50	17.85	NA
	10/28/96	NA	0.00	17.60	17.75	NA
				SPH Recovered to Date:		0.0

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Unocal (continued)			
B-4	03/28/95	17.92	0.71	18.63	16.76	NA
(34.79)	04/24/95	18.01	1.16	19.17	16.61	NA
	05/22/95	18.11	1.13	19.24	16.51	NA
	06/26/95	18.27	1.01	19.28	16.37	NA
	07/24/95	18.53	0.11	18.64	16.24	0.15
	08/28/95	18.62	0.01	18.63	16.17	NA
	09/25/95	18.82	0.13	18.95	15.95	NA
	10/23/95	18.83	0.02	18.85	15.96	NA
	11/27/95	18.56	0.06	18.62	16.22	0.37
	01/22/96	17.60	0.04	17.64	17.18	0.24
	02/26/96	NA	0.00	13.68	21.11	NA
	04/22/96	16.35	0.07	16.44	18.41	0.02
	05/28/96	16.35	0.07	16.42	18.43	0.02
	08/23/96	18.35	0.00	18.35	16.44	NA
	09/23/96	18.44	0.01	18.45	16.35	NA
	10/28/96	17.56	1.03	18.59	17.08	NA
				SPH Recovered to Date:		**0.80**
B-5	01/22/96	0.00	0.00	16.18	19.41	NA
(34.79)	02/26/96	0.00	0.00	4.40	31.19	NA
	05/28/96	NA	0.00	15.59	20.00	NA
	06/24/96	DRY	DRY	DRY	DRY	DRY
	07/22/96	DRY	DRY	DRY	DRY	DRY
	08/23/96	DRY	DRY	DRY	DRY	DRY
	09/23/96	NA	0.00	17.02	18.57	NA
	10/28/96	NA	0.00	17.10	18.49	NA
				SPH Recovered to Date:		**0.0**
B-6	01/22/96	0.00	0.00	16.44	18.97	NA
(35.41)	02/26/96	0.00	0.00	5.60	29.81	NA
	04/22/96	NA	0.00	16.15	19.26	NA
	05/28/96	NA	0.00	16.11	19.30	NA
	06/24/96	NA	0.00	16.47	18.94	NA
	07/22/96	NA	0.00	16.91	18.50	NA
	08/23/96	NA	0.00	17.99	17.42	NA
	09/23/96	NA	0.00	17.45	17.96	NA
	10/28/96	NA	0.00	17.34	18.07	NA
				SPH Recovered to Date:		**0.0**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Unocal (continued)			
B-16	01/22/96	0.00	0.00	16.75	19.07	NA
(35.82)	02/26/96	NA	0.00	13.30	22.52	NA
	04/22/96	NA	0.00	16.04	19.78	NA
	05/28/96	NA	0.00	16.39	19.43	NA
	06/24/96	NA	0.00	16.71	19.11	NA
	07/22/96	NA	0.00	17.19	18.63	NA
	09/23/96	NA	0.00	17.76	18.06	NA
	10/28/96	NA	0.00	17.82	18.00	NA
				SPH Recovered to Date:		**0.0**
B-17	03/28/95	16.95	0.00	16.95	18.64	NA
(35.59)	04/24/95	NA	0.00	17.15	18.44	NA
	05/22/95	17.36	0.00	17.36	18.23	NA
	06/26/95	17.61	0.00	17.61	17.98	NA
	07/24/95	17.79	0.01	17.80	17.80	NA
	08/28/95	18.78	0.01	18.79	16.81	NA
	09/25/95	NA	0.00	18.23	17.36	NA
	10/23/95	NA	0.00	18.21	17.38	NA
	11/27/95	17.85	0.00	17.85	17.74	NA
	12/28/95	NA	0.00	16.85	18.74	NA
	01/22/96	NA	0.00	16.78	18.81	NA
	02/26/96	13.35	0.01	13.36	22.24	NA
	04/22/96	16.44	0.00	16.44	19.15	NA
	05/28/96	16.40	0.00	16.40	19.19	NA
	06/24/96	16.40	0.00	16.40	19.19	NA
	07/22/96	17.16	0.00	17.16	18.43	NA
	08/23/96	17.57	0.00	17.57	18.02	NA
	09/23/96	NA	0.00	17.68	17.91	NA
	10/28/96	NA	0.00	17.75	17.84	NA
				SPH Recovered to Date:		**0.0**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Unocal (continued)			
B-18	03/28/95	NA	0.00	19.28	16.51	NA
(35.79)	04/24/95	NA	0.00	19.38	16.41	NA
	05/22/95	NA	0.00	19.44	16.35	NA
	06/26/95	NA	0.00	19.56	16.23	NA
	07/24/95	NA	0.00	19.74	16.05	NA
	08/28/95	NA	0.00	19.43	16.36	NA
	09/25/95	NA	0.00	20.02	15.77	NA
	10/23/95	NA	0.00	20.08	15.71	NA
	12/28/95	NA	0.00	18.66	17.13	NA
	01/22/96	0.00	0.00	18.20	17.59	NA
	02/26/96	0.00	0.00	18.38	17.41	NA
	04/22/96	NA	0.00	18.50	17.29	NA
	05/28/96	NA	0.00	17.84	17.95	NA
	06/24/96	NA	0.00	18.35	17.44	NA
	07/22/96	NA	0.00	18.97	16.82	NA
	08/23/96	NA	0.00	17.50	18.29	NA
	09/23/96	NA	0.00	19.43	16.36	NA
	10/28/96	NA	0.00	19.47	16.32	NA
				SPH Recovered to Date:		0.0
B-22	03/28/95	NA	0.00	18.50	17.33	NA
(35.83)	04/24/95	NA	0.00	19.10	16.73	NA
	05/22/95	NA	0.00	19.09	16.74	NA
	06/26/95	NA	0.00	19.26	16.57	NA
	09/25/95	NA	0.00	20.50	15.33	NA
	10/23/95	NA	0.00	19.96	15.87	NA
	12/28/95	NA	0.00	18.59	17.24	0.02
	01/22/96	NA	0.00	18.88	16.95	NA
	02/26/96	NA	0.00	12.05	23.78	NA
	04/22/96	NA	0.00	17.75	18.08	NA
	05/28/96	NA	0.00	17.31	18.52	NA
	06/24/96	NA	0.00	18.12	17.71	NA
	07/22/96	NA	0.00	19.09	16.74	NA
	08/23/96	NA	0.00	19.03	16.80	NA
	09/23/96	NA	0.00	19.79	16.04	NA
	10/28/96	NA	0.00	19.75	16.08	NA
				SPH Recovered to Date:		0.02

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Unocal (continued)			
B-27	03/28/95	17.25	0.27	17.52	18.45	NA
(35.74)	04/24/95	17.70	0.31	18.01	17.99	NA
	05/22/95	17.85	0.32	18.17	17.84	NA
	06/26/95	17.91	1.12	19.03	17.66	NA
	07/24/95	18.11	1.14	19.25	17.46	NA
	08/28/95	18.75	0.50	19.25	16.92	NA
	09/25/95	18.50	1.10	19.60	17.08	NA
	10/23/95	18.59	1.10	19.69	16.99	NA
	11/27/95	18.50	0.30	18.80	17.20	0.8
	01/22/96	17.44	0.43	17.87	18.24	0.8
	02/26/96	13.38	0.31	13.69	22.31	0.3
	04/22/96	16.68	0.27	16.95	19.02	0.1
	08/23/96	18.12	0.56	18.68	17.54	0.3
	09/23/96	18.34	0.36	18.70	17.35	NA
	10/28/96	18.58	0.11	18.69	17.14	NA
				SPH Recovered to Date:		2.26
B-35	04/24/95	16.10	0.23	16.33	17.45	NA
(33.58)	05/22/95	16.24	0.19	16.43	17.31	NA
	06/26/95	16.45	0.23	16.68	17.10	NA
	07/24/95	16.65	0.21	16.86	16.90	NA
	08/28/95	17.35	0.17	17.52	16.20	NA
	09/25/95	17.02	0.30	17.32	16.52	NA
	10/23/95	16.94	0.21	17.15	16.61	NA
	11/27/95	16.50	0.06	16.56	17.07	0.08
	12/28/95	15.60	0.01	15.61	17.98	0.02
	01/22/96	15.52	0.05	15.57	18.05	NA
	02/26/96	13.50	0.05	13.55	20.07	NA
	04/22/96	17.78	0.06	17.84	15.79	NA
	05/28/96	15.08	0.00	15.08	18.50	NA
	06/24/96	NA	0.00	15.54	18.04	NA
	07/22/96	NA	0.00	16.06	17.52	NA
	08/23/96	NA	0.00	16.85	16.73	NA
	09/23/96	NA	0.00	16.60	16.98	NA
	10/28/96	16.85	0.06	16.91	16.72	NA
				SPH Recovered to Date:		0.10

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Unocal (continued)			
B-36	03/28/95	NA	0.00	14.65	16.32	NA
(30.97)	04/24/95	NA	0.00	14.95	16.02	NA
	05/22/95	NA	0.00	15.03	15.94	NA
	06/26/95	NA	0.00	15.24	15.73	NA
	07/24/95	NA	0.00	15.47	15.50	NA
	08/28/95	NA	0.00	15.35	15.62	NA
	09/25/95	NA	0.00	15.82	15.15	NA
	10/23/95	NA	0.00	15.60	15.37	NA
	12/28/95	NA	0.00	13.91	17.06	NA
	01/22/96	0.00	0.00	13.93	17.04	NA
	02/26/96	0.00	0.00	10.75	20.22	NA
	04/22/96	NA	0.00	14.10	16.87	NA
	05/28/96	NA	0.00	13.01	17.96	NA
	06/24/96	NA	0.00	13.84	17.13	NA
	07/22/96	NA	0.00	15.01	15.96	NA
	08/23/96	NA	0.00	15.81	15.16	NA
	09/23/96	NA	0.00	15.65	15.32	NA
	10/28/96	NA	0.00	15.55	15.42	NA
				SPH Recovered to Date:		**0.0**
B-37	03/28/95	NA	0.00	18.51	16.73	NA
(35.24)	04/24/95	NA	0.00	19.66	15.58	NA
	05/22/95	NA	0.00	19.62	15.62	NA
	06/26/95	NA	0.00	19.75	15.49	NA
	07/24/95	NA	0.00	20.08	15.16	NA
	08/28/95	NA	0.00	20.10	15.14	NA
	09/25/95	20.41	0.01	20.42	14.83	NA
	10/23/95	20.44	0.01	20.45	14.80	NA
	11/27/95	19.90	0.00	19.90	15.34	NA
	12/28/95	19.66	0.00	19.66	15.58	NA
	01/22/96	18.20	0.03	18.23	17.04	NA
	02/26/96	NA	0.00	14.15	21.09	NA
	04/22/96	NA	0.00	18.90	16.34	NA
	05/28/96	NA	0.00	17.94	17.30	NA
	06/24/96	NA	0.00	19.13	16.11	NA
	07/22/96	NA	0.00	20.13	15.11	NA
	08/23/96	NA	0.00	20.15	15.09	NA
	09/23/96	NA	0.00	20.76	14.48	NA
	10/28/96	NA	0.00	20.87	14.37	NA
				SPH Recovered to Date:		**0.0**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Unocal (continued)			
B-38	03/28/95	18.95	1.95	20.90	15.51	NA
(34.75)	04/24/95	19.17	1.51	20.68	15.35	NA
	05/22/95	19.13	1.45	20.58	15.40	NA
	06/26/95	19.30	1.16	20.46	15.28	NA
	07/24/95	19.75	0.17	19.92	14.97	0.20
	08/28/95	19.82	0.71	20.53	14.82	NA
	09/25/95	19.99	1.03	21.02	14.61	NA
	10/23/95	20.00	1.03	21.03	14.60	NA
	11/27/95	19.50	0.32	19.82	15.20	0.81
	01/22/96	18.89	0.14	19.03	15.84	0.45
	02/26/96	13.70	0.37	14.07	20.99	1.31
	04/22/96	18.63	0.25	18.88	16.08	NA
	07/22/96	19.59	1.25	20.84	14.97	NA
	08/23/96	18.70	0.03	18.73	16.05	NA
	09/23/96	20.18	0.78	20.96	14.45	NA
	10/28/96	20.18	0.70	20.88	14.47	NA
				SPH Recovered to Date:		2.77
B-39	03/28/95	18.14	0.04	18.18	15.77	NA
(33.92)	04/24/95	18.31	0.03	18.34	15.61	NA
	05/22/95	18.28	0.03	18.31	15.64	NA
	06/26/95	18.43	0.09	18.52	15.48	NA
	07/24/95	18.73	0.13	18.86	15.17	NA
	08/28/95	18.95	0.11	19.06	14.95	NA
	09/25/95	19.08	0.14	19.22	14.82	NA
	10/23/95	19.09	0.20	19.29	14.80	NA
	11/27/95	19.55	0.07	19.62	14.36	0.11
	12/28/95	18.05	0.18	18.23	15.84	0.04
	01/22/96	17.03	0.07	17.10	16.88	0.01
	02/26/96	13.54	0.46	14.00	20.31	0.03
	04/22/96	18.65	0.08	18.73	15.26	0.90
	05/28/96	16.64	0.12	16.76	17.26	0.02
	06/24/96	17.67	0.72	18.39	16.14	0.03
	07/22/96	18.68	0.03	18.71	15.24	0.01
	08/23/96	19.18	0.87	20.05	14.61	0.40
	09/23/96	19.42	0.09	19.51	14.49	NA
	10/28/96	19.25	0.04	19.29	14.66	NA
				SPH Recovered to Date:		1.55

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Unocal (continued)			
B-40	03/28/95	17.55	0.09	17.64	15.63	NA
(33.19)	04/24/95	17.84	0.12	17.96	15.33	NA
	05/22/95	17.75	0.11	17.86	15.42	NA
	06/26/95	17.95	0.11	18.06	15.22	NA
	08/28/95	18.40	0.01	18.41	14.79	NA
	09/25/95	NA	0.00	18.77	14.42	NA
	10/23/95	18.74	0.01	18.75	14.45	NA
	11/27/95	17.98	0.02	18.00	15.21	NA
	12/28/95	17.23	0.00	17.23	15.96	NA
	01/22/96	NA	0.00	16.40	16.79	NA
	02/26/96	NA	0.00	12.75	20.44	NA
	04/22/96	17.01	0.00	17.01	16.18	NA
	05/28/96	15.78	0.29	16.07	17.37	NA
	06/24/96	16.99	0.15	17.14	16.18	0.23
	07/22/96	18.32	0.12	18.44	14.85	0.01
	08/23/96	18.87	0.06	18.93	14.31	0.02
	09/23/96	19.06	0.06	19.12	14.12	NA
	10/28/96	NA	0.00	19.02	14.17	NA
				SPH Recovered to Date:		**0.26**
B-41	03/28/95	18.80	0.08	18.88	16.04	NA
(34.85)	04/24/95	18.93	0.06	18.99	15.91	NA
	05/22/95	18.95	0.07	19.02	15.89	NA
	06/26/95	19.11	0.06	19.17	15.73	NA
	08/28/95	18.55	0.70	19.25	16.20	NA
	09/25/95	19.73	0.20	19.93	15.09	NA
	10/23/95	19.70	0.60	20.30	15.06	NA
	11/27/95	18.50	0.15	18.65	16.33	0.23
	01/22/96	17.38	0.04	17.42	17.46	0.18
	02/26/96	13.40	0.41	13.81	21.39	NA
	04/22/96	12.75	12.98	0.23	45.65	NA
	09/23/96	19.38	0.02	19.40	15.47	0.06
	10/28/96	19.87	0.08	19.95	14.97	NA
				SPH Recovered to Date:		**0.47**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Unocal (continued)			
RES-New	03/28/95	23.14	0.76	23.90	15.33	NA
(38.58)	04/24/95	23.17	1.74	24.91	15.15	NA
	05/22/95	23.17	0.75	23.92	15.30	NA
	06/26/95	23.26	0.75	24.01	15.21	NA
	07/24/96	23.45	0.76	24.21	15.02	NA
	08/28/95	23.64	0.68	24.32	14.84	NA
	09/25/95	23.75	0.50	24.25	14.76	NA
	10/23/95	23.80	0.60	24.40	14.69	NA
	11/27/95	23.26	0.60	23.86	15.23	1.59
	12/28/95	22.59	0.02	22.61	15.99	1.21
	01/22/96	20.91	0.03	20.94	17.67	5.00
	02/26/96	23.34	0.76	24.10	15.13	41.25
	04/22/96	22.14	0.02	22.16	16.44	NA
	05/28/96	21.11	0.00	21.11	17.47	NA
	06/24/96	22.41	0.00	22.41	16.17	NA
	07/22/96	22.88	0.00	22.88	15.70	NA
	08/23/96	NA	0.00	22.21	16.37	NA
	09/23/96	23.74	0.02	23.76	14.84	NA
	10/28/96	NA	0.00	24.32	14.26	NA
				SPH Recovered to Date:		**49.05**
RES-Old	03/28/95	17.61	0.04	17.65	18.41	NA
(36.03)	04/24/95	17.78	0.02	17.80	18.25	NA
	05/22/95	17.99	0.02	18.01	18.04	NA
	06/26/95	18.26	0.02	18.28	17.77	NA
	08/28/95	17.30	0.25	17.55	18.69	NA
	09/25/95	18.60	0.61	19.21	17.34	NA
	10/23/95	18.90	0.14	19.04	17.11	NA
	11/27/95	19.25	0.01	19.26	16.78	0.01
	12/28/95	17.53	0.01	17.54	18.50	NA
	01/22/96	17.42	0.07	17.49	18.60	NA
	02/26/96	12.50	0.11	12.61	23.51	NA
	04/22/96	10.95	0.10	11.05	25.07	NA
	05/28/96	16.82	0.00	16.82	19.21	NA
	06/24/96	17.18	0.01	17.19	18.85	NA
	07/22/96	17.53	0.01	17.54	18.50	NA
	08/23/96	18.10	0.01	18.11	17.93	NA
	09/23/96	18.22	0.08	18.30	17.80	NA
	10/28/96	18.10	0.05	18.15	17.92	NA
				SPH Recovered to Date:		**0.01**

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Unocal (continued)			
U-2	03/28/95	NA	0.00	14.88	20.14	NA
(35.02)	04/24/95	NA	0.00	15.10	19.92	NA
	05/22/95	NA	0.00	15.25	19.77	NA
	06/26/95	NA	0.00	15.52	19.50	NA
	07/24/95	NA	0.00	15.75	19.27	NA
	08/28/95	NA	0.00	15.65	19.37	NA
	09/25/95	NA	0.00	15.20	19.82	NA
	10/23/95	NA	0.00	16.57	18.45	NA
	12/28/95	NA	0.00	15.06	19.96	NA
	01/22/96	NA	0.00	16.44	18.58	NA
	02/26/96	NA	0.00	14.35	20.67	NA
	04/22/96	NA	0.00	15.01	20.01	NA
	05/28/96	NA	0.00	13.98	21.04	NA
	06/24/96	NA	0.00	14.36	20.66	NA
	07/22/96	NA	0.00	14.96	20.06	NA
	08/23/96	NA	0.00	15.10	19.92	NA
	09/23/96	NA	0.00	14.93	20.09	NA
	10/28/96	NA	0.00	14.85	20.17	NA
				SPH Recovered to Date:		0.0
U-3	03/28/95	NA	0.00	12.72	22.53	NA
(35.25)	04/24/95	NA	0.00	12.93	22.32	NA
	05/22/95	NA	0.00	13.55	21.70	NA
	06/26/95	13.89	0.01	13.90	21.36	NA
	07/24/95	NA	0.00	14.02	21.23	NA
	08/28/95	NA	0.00	19.65	15.60	NA
	09/25/95	NA	0.00	16.35	18.90	NA
	10/23/95	14.20	0.00	14.21	21.04	NA
	11/27/95	14.20	0.00	14.20	21.05	NA
	12/28/95	12.71	0.00	12.71	22.54	NA
	01/22/96	16.56	0.02	16.58	18.69	NA
	02/26/96	14.51	0.00	14.15	21.10	NA
	04/22/96	NA	0.00	15.15	20.10	NA
	05/28/96	NA	0.00	12.27	22.98	NA
	06/24/96	NA	0.00	12.69	22.56	NA
	07/22/96	NA	0.00	13.02	22.23	NA
	08/23/96	NA	0.00	13.15	22.10	NA
	09/23/96	NA	0.00	15.02	20.23	NA
	10/28/96	NA	0.00	17.90	17.35	NA
				SPH Recovered to Date:		0.0

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Unocal (continued)			
U-4	03/28/95	17.42	3.98	21.40	16.44	NA
(34.46)	04/24/95	15.60	6.17	21.77	17.93	NA
	05/22/95	15.75	6.18	21.93	17.78	NA
	06/26/95	15.96	6.16	22.12	17.58	NA
	07/24/95	16.33	4.17	20.50	17.50	NA
	08/28/95	17.23	3.72	20.95	16.67	5.20
	09/25/95	18.60	0.25	18.85	15.82	NA
	10/23/95	17.35	3.90	21.25	16.53	NA
	11/27/95	16.40	2.40	18.80	17.70	1.22
	01/22/96	17.60	0.04	17.64	16.85	2.79
	02/26/96	12.85	0.30	13.15	21.57	0.98
	04/22/96	11.50	0.23	11.73	22.93	0.31
	08/23/96	16.31	0.16	16.47	18.13	0.25
	09/23/96	16.61	0.09	16.70	17.84	NA
	10/28/96	17.56	0.19	17.75	16.87	NA
				SPH Recovered to Date:		10.75
U-5A	03/28/95	4.73	1.47	6.20	28.82	NA
(33.77)	04/24/95	6.02	0.39	6.41	27.69	NA
	05/22/95	6.52	NM	NM	NM	NA
	06/26/95	6.97	NM	NM	NM	0.50
	07/24/95	9.86	0.37	10.23	23.85	NA
	08/28/95	9.50	0.45	9.95	24.20	0.01
	09/25/95	NA	0.00	15.61	18.16	NA
	10/23/95	15.30	0.20	15.50	18.44	NA
	11/27/95	6.34	0.08	6.42	27.42	0.36
	12/28/95	5.97	0.42	6.39	27.74	0.25
	01/22/96	6.43	0.07	6.50	27.33	0.07
	02/26/96	8.50	0.03	8.53	25.27	0.08
	04/22/96	9.35	0.05	9.40	24.41	0.05
	06/24/96	5.79	0.32	6.11	27.93	0.15
	07/22/96	6.47	0.07	6.54	27.29	0.05
	08/23/96	7.21	0.89	8.10	26.43	0.32
	09/23/96	8.58	1.31	9.89	24.99	NA
	10/28/96	20.04	0.03	20.07	13.73	NA
				SPH Recovered to Date:		1.84

Table 2 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered (gallons)
			Unocal (continued)			
U-5	03/28/95	NA	0.00	18.21	15.16	NA
(33.37)	04/24/95	NA	0.00	18.47	14.90	NA
	05/22/95	NA	0.00	18.33	15.04	NA
	06/26/95	NA	0.00	8.42	24.95	NA
	07/24/95	18.90	0.01	18.91	14.47	NA
	08/28/95	19.13	0.12	19.25	14.22	NA
	09/25/95	19.27	0.25	19.52	14.06	NA
	10/23/95	19.32	0.17	19.49	14.02	NA
	11/27/95	18.50	0.10	18.60	14.86	0.0
(34.20)	12/28/95	18.43	0.05	18.48	15.76	0.1
	01/22/96	15.57	0.08	15.65	18.62	0.0
	02/26/96	13.55	0.15	13.70	20.63	NA
	04/22/96	17.82	0.08	17.90	16.37	0.0
	05/28/96	16.52	0.01	16.53	17.68	NA
	06/24/96	18.10	0.01	18.11	16.10	NA
	07/22/96	19.39	0.03	19.42	14.81	NA
	09/23/96	20.04	0.04	20.08	14.15	NA
	10/28/96	18.15	0.07	18.22	16.04	NA
					SPH Recovered to Date:	**0.14**
					Unocal total SPH Recovered to Date:	**70.98**
					Complete Total SPH Recovered to Date:	**114.66**

Notes:
SPH = Separate-phase hydrocarbon
* = Groundwater elevation (GWE) is corrected for the presence of SPH using:
GWE = toc - (DTW + (SPH thickness x Specific gravity of SPH))
Specific gravity used is 0.85
NA = Not available
NM = Not measured
SPH recovered to 10-28-96 has been accumulative process on a weekly to monthly basis and added together to get the sum.

Table 3
Groundwater Analytical Results

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		UNOCAL			
B-2	10/28/96	18	2.9	ND	3.5
B-3	10/28/96	ND	ND	ND	ND
B-4	10/28/96	NS	NS	NS	NS
B-6	10/28/96	180	31	360	130
B-16	10/28/96	850	22	16	16
B-17	10/28/96	330	15	10	ND
B-18	10/28/96	ND	ND	ND	ND
B-22	10/28/96	NS	NS	NS	NS
B-25	10/28/96	ND	ND	ND	ND
B-27	10/28/96	NS/F	NS/F	NS/F	NS/F
B-35	10/28/96	NS	NS	NS	NS
B-36	10/28/96	ND	ND	ND	ND
B-37	10/28/96	ND	ND	ND	ND
B-40	10/28/96	0.93	1.2	1.3	1.2
Res-New	10/28/96	NS/F	NS/F	NS/F	NS/F
U-2	10/28/96	ND	ND	ND	ND
U-3	10/28/96	ND	ND	ND	ND
U-4	10/28/96	NS	NS	NS	NS
U-5	10/28/96	NS	NS	NS	NS
U-5A	10/28/96	NS	NS	NS	NS

Table 3 (continued)
Groundwater Analytical Results

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		SHELL/GATX			
MW-7	10/28/96	NS	NS	NS	NS
MW-8	10/28/96	1,300	2,000	190	900
MW-10	10/28/96	2.4	ND	ND	ND
MW-11	10/28/96	5,100	2,200	2,200	8,100
MW-20	10/28/96	ND	ND	ND	ND
MW-22	10/28/96	2,000	3,500	4,200	14,000
Duplicate	10/28/96	1,800	3,400	4,600	15,000
MW-23	10/28/96	31	7.3	140	110
MW-26	10/28/96	NS	NS	NS	NS
MW-28	10/28/96	1.2	0.66	1.8	3.2
MW-31	10/28/96	1.5	ND	ND	ND
MW-32	10/28/96	ND	ND	ND	ND
Duplicate	10/28/96	ND	ND	ND	ND
MW-33	10/28/96	ND	ND	ND	ND
MW-36	10/28/96	ND	ND	ND	ND
MW-37	10/28/96	27	ND	ND	ND
MW-39	10/28/96	0.96	ND	1.8	2.4

Table 3 (continued)
Groundwater Analytical Results

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
			CHEVRON		
B-7	10/28/96	ND	ND	ND	ND
B-9	10/28/96	ND	ND	ND	ND
B-10	10/28/96	120	4.5	4.0	11
B-11	10/28/96	290	12	4.3	9.5
B-14	10/28/96	140	8.2	29	12
Duplicate	10/28/96	120	8.3	24	11
B-28	10/28/96	2.3	ND	2.5	ND
B-30	10/28/96	19	4.1	0.95	9.1
CR-8	10/28/96	ND	ND	ND	2.4
CR-11	10/28/96	NS/F	NS/F	NS/F	NS/F

Notes:
ppb = Parts per billion
ND = Not detected
NS = Not sampled
NS/F = Not sampled floating product present
NA = Not analyzed, not applicable
BTEX by EPA Method 8020

Table 4
Groundwater Analytical Results

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
			UNOCAL		
B-2	10/28/96	18	2.9	ND	3.5
B-3	10/28/96	ND	ND	ND	ND
B-4	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS	NS	NS	NS
	10/28/96	NS	NS	NS	NS
B-6	01/22/96	240	17	300	120
	07/22/96	270	25	380	120
	10/28/96	180	31	360	130
B-16	01/22/96	590	9.4	11	11
	07/22/96	210	8.7	7.9	9.9
	10/28/96	850	22	16	16
B-17	01/01/95	200	17	4.5	26
	04/01/95	590	17	7.7	16
	07/01/95	670	22	11	20
	10/01/95	830	36	16	43
	01/22/96	550	9.8	11	12
	04/22/96	580	19	12	32
	07/22/96	520	22	12	20
	10/28/96	330	15	10	ND
B-18	01/01/95	ND	ND	ND	0.6
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND

Table 4 (continued)
Groundwater Analytical Results

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		UNOCAL (continued)			
B-22	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	15	1.6	2.3	5.3
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	14	0.93	0.52	0.56
	10/28/96	NS	NS	NS	NS
B-25	01/22/96	2.4	ND	3.6	1.0
	10/28/96	ND	ND	ND	ND
B-27	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F
B-35	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	11	7.2	1.2	8.3
	10/28/96	NS	NS	NS	NS
B-36	01/01/95	NS	NS	NS	NS
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	480	8.9	8.2	9.6
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND

Table 4 (continued)
Groundwater Analytical Results

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
			UNOCAL (continued)		
B-37	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	31	0.54	0.72	1.3
	07/22/96	4.5	ND	ND	0.52
	10/28/96	ND	ND	ND	ND
B-40	01/22/96	2.9	1.9	16	7.5
	10/28/96	0.93	1.2	1.3	1.2
Res-New	01/01/95	4	0.6	3.4	4.5
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F
U-2	01/01/95	3.8	ND	4.9	2.9
	04/01/95	0.66	ND	1.2	1.2
	07/01/95	2.6	ND	0.62	4
	10/01/95	6.8	ND	ND	ND
	01/22/96	1.3	ND	2.9	1.2
	04/22/96	ND	ND	ND	ND
	07/22/96	7.5	1.9	10	4.2
	10/28/96	ND	ND	ND	ND
U-3	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/06	220	7.9	49	26
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND

Table 4 (continued)
Groundwater Analytical Results

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		UNOCAL (continued)			
U-4	01/01/95	ND	ND	ND	0.6
	04/01/95	ND	ND	ND	ND
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
U-5	01/01/95	15	2	0.5	3
	04/01/95	1.9	1.4	ND	1.7
	07/01/95	2.7	1.2	ND	1.8
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
U-5A	01/01/95	20	6.5	3.7	7.2
	04/01/95	28	7.8	5	20
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS

Table 4 (continued)
Groundwater Analytical Results

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		SHELL/GATX			
MW-7	01/01/95	ND	ND	18	30
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/01/96	NS	NS	NS	NS
	07/01/96	NS	NS	NS	NS
	10/28/96	NS	NS	NS	NS
MW-8	01/01/95	ND	ND	ND	ND
	04/01/95	0.96	ND	ND	ND
	07/01/95	ND	ND	ND	1.1
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	970	64	6.3	20
	07/22/96	1,100	440	39	140
	10/28/96	1,300	2,000	190	900
MW-10	01/01/95	1.7	0.7	ND	1
	04/01/95	ND	ND	ND	1.3
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	1.3
	01/22/96	2.3	0.68	ND	1.1
	04/22/96	6.5	0.88	ND	0.62
	07/22/96	ND	ND	ND	ND
	10/28/96	2.4	ND	ND	ND

Table 4 (continued)
Groundwater Analytical Results

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		SHELL/GATX (continued)			
MW-11	01/01/95	8,900	4,500	2,500	11,000
	04/01/95	7,400	4,900	2,500	12,000
	07/01/95	5,400	2,400	2,600	8,000
	10/01/95	7,100	2,800	2,400	8,700
	01/22/96	7,400	4,500	2,100	10,000
	04/22/96	7,000	3,800	2,500	11,000
	07/22/96	4,900	2,000	2,400	8,100
	10/28/96	5,100	2,200	2,200	8,100
MW-20	10/28/96	ND	ND	ND	ND
MW-22	01/01/95	2,400	8,100	4,700	16,000
	04/01/95	2,200	7,100	4,500	15,000
	07/01/95	2,000	5,800	4,500	15,000
	10/01/95	2,300	6,300	5,200	19,000
	01/22/96	1,800	5,300	4,100	15,000
	04/22/96	1,900	4,600	4,000	12,000
	07/22/96	2,200	4,300	4,700	15,000
	10/28/96	2,000	3,500	4,200	14,000
Duplicate	10/28/96	1,800	3,400	4,600	15,000
MW-23	01/01/95	72	20	210	180
	04/01/95	150	38	240	140
	07/01/95	99	20	240	140
	10/01/95	120	18	230	120
	01/22/96	32	ND	180	156
	04/22/96	35	16	140	140
Duplicate	04/22/96	ND	ND	ND	ND
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	31	7.3	140	110

Table 4 (continued)
Groundwater Analytical Results

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		SHELL/GATX (continued)			
MW-26	01/01/95	1.7	ND	24	33
	04/01/95	8.7	7.3	13	19
	07/01/95	6.4	10	9.6	12
	10/01/95	ND	0.85	1.6	4.9
	01/22/96	ND	4.2	16	20
Duplicate	01/22/96	ND	ND	ND	ND
	01/19/96	ND	ND	ND	ND
	04/22/06	NS	ND	NS	NS
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
MW-28	01/01/95	0.9	0.6	8.5	20
	04/01/95	ND	ND	20	15
	07/01/95	7.6	2.7	2.6	7.9
	10/01/95	2.8	2.6	7.2	20
	01/19/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	4.2
	07/22/96	2.0	0.95	0.73	1.8
	10/28/96	1.2	0.66	1.8	3.2
MW-31	01/01/95	1.3	1.6	1.2	3.8
	04/01/95	9.3	4.7	0.99	3.1
	07/01/95	2.8	1.3	0.64	1.4
	10/01/95	ND	ND	ND	ND
	01/19/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	2.5	1.1	0.54	1.9
	10/28/96	1.5	ND	ND	ND

Table 4 (continued)
Groundwater Analytical Results

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		SHELL/GATX (continued)			
MW-32	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	0.56
	10/28/96	ND	ND	ND	ND
Duplicate	10/28/96	ND	ND	ND	ND
MW-33	01/01/95	ND	ND	ND	0.5
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/01/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
MW-36	07/01/95	NS	NS	NS	NS
	10/01/95	NS	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
MW-37	01/01/95	ND	ND	2.2	7.1
	04/01/95	ND	ND	ND	ND
	07/01/95	140	ND	ND	ND
	10/01/95	14	ND	ND	ND
	01/22/96	140	1.0	ND	1.8
	04/22/96	92	ND	ND	ND
	07/22/96	450	6.4	ND	4.8
	10/28/96	27	ND	ND	ND
MW-39	10/28/96	0.96	ND	1.8	2.4

Table 4 (continued)
Groundwater Analytical Results

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		CHEVRON			
B-7	01/01/95	ND	ND	ND	ND
	04/01/95	ND	0.73	ND	ND
	07/01/95	ND	0.57	ND	ND
	10/01/95	ND	ND	ND	ND
	01/01/96	ND	ND	1	NS
	04/01/96	ND	ND	ND	ND
	07/22/96	5.4	0.64	ND	ND
	10/28/96	ND	ND	ND	ND
B-9	01/01/95	ND	0.9	ND	1.5
	04/01/95	ND	0.88	ND	1.3
	07/01/95	ND	1	ND	0.52
	10/01/95	ND	1	ND	2.5
	01/22/96	0.63	0.66	ND	1.8
	04/22/96	1.0	1.3	ND	2.7
	07/22/96	1.8	0.86	ND	0.93
	10/28/96	ND	ND	ND	ND
B-10	01/01/95	8.6	2.9	0.7	5.2
	04/01/95	11	5.7	14	17
	07/01/95	8.3	3.6	4.3	11
	10/01/95	22	4.3	1.8	13
	01/22/96	8.6	2.1	ND	5.4
	04/22/96	33	5.6	1.3	15
	07/22/96	30	4.5	6.6	15
	10/28/96	120	4.5	4.0	11
B-11	01/01/95	12	2.8	52	9.9
	04/01/95	140	8.2	2.6	6.3
	07/01/95	140	9.3	2.3	9.5
	10/01/95	320	7.8	ND	8.1
	01/22/96	260	4	140	24
Duplicate	01/22/96	ND	ND	ND	ND
	04/01/96	340	9.8	38	14
	07/22/96	250	7.3	2.4	13
	10/28/96	290	12	4.3	9.5

Table 4 (continued)
Groundwater Analytical Results

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		CHEVRON (continued)			
B-13	01/22/96	400	7.7	18	14
B-14	01/01/95	190	15	78	46
	04/01/95	140	7.6	170	83
	07/01/95	190	21	91	55
	10/01/95	240	20	45	22
	01/22/96	230	9.5	51	27
	04/22/96	260	14	93	52
Duplicate	04/22/96	270	14	90	50
	07/22/96	230	15	100	67
Duplicate	07/22/96	220	18	110	74
	10/28/96	140	8.2	29	12
Duplicate	10/28/96	120	8.3	24	11
B-28	01/01/95	10	0.7	17	2
	04/01/95	19	0.86	48	7.8
	07/01/95	1.7	0.82	32	5.6
	10/01/95	3	ND	0.93	ND
	01/22/96	4.6	ND	19	6.6
	04/01/96	ND	ND	ND	ND
	07/22/96	14	0.74	64	13
	10/28/96	2.3	ND	2.5	ND
B-30	01/01/95	51	7.6	3.1	17
	04/01/95	28	3.1	1.6	9.9
	07/01/95	12	2	0.71	4.5
	10/01/95	43	4.6	0.94	11
	01/22/96	50	7.1	2.4	14
	04/22/96	25	7.4	3.2	15
	07/22/96	38	4.2	1.9	9.0
	10/28/96	19	4.1	0.95	9.1

Table 4 (continued)
Groundwater Analytical Results

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
CR-3	01/22/96	ND	ND	ND	ND
CR-8	01/01/95	ND	ND	3.9	5.8
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	0.54
	01/22/96	1.2	ND	0.59	1.8
	04/22/96	1.7	0.98	1.1	2.2
	07/22/96	ND	ND	0.58	1.6
	10/28/96	ND	ND	ND	2.4
CR-11	01/01/95	94	3.9	2.4	3.4
	04/01/95	110	3.6	5.4	17
	07/01/95	94	4.4	3	9.1
	10/01/95	130	8.5	4.2	8.8
	01/22/96	78	2.3	1.9	4.8
	04/22/96	91	5.2	4	3.8
	07/22/96	92	5.3	12	23
	10/28/96	NS/F	NS/F	NS/F	NS/F

Notes:
ppb = Parts per billion
ND = Not detected
NS = Not sampled
NS/F = Not sampled floating product present
NA = Not analyzed, not applicable
BTEX by EPA Method 8020

Table 5
Groundwater Analytical Results
Polynuclear Aromatic Hydrocarbons
10/28/96

Willbridge Terminal
Portland, Oregon

Parameters	B-7 (ppb)	B-9 (ppb)	B-10 (ppb)	B-11 (ppb)	B-14 (ppb)	B-14 (ppb) Duplicate	B-28 (ppb)	B-30 (ppb)	CR-8 (ppb)	CR-11 (ppb)
						Chevron				
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS/F
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS/F
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS/F
Benzo (a) anthracene	ND	0.196	ND	ND	ND	ND	ND	ND	0.398	NS/F
Benzo (b) fluoranthene	ND	0.553	ND	ND	ND	ND	ND	ND	0.905	NS/F
Benzo (k) flouranthene	ND	0.312	ND	ND	ND	ND	ND	ND	0.515	NS/F
Benzo (a) pyrene	ND	0.424	ND	ND	ND	ND	ND	ND	1.37	NS/F
Benzo (g,h,i) perylene	ND	0.505	ND	ND	ND	ND	ND	ND	1.73	NS/F
Chrysene	ND	0.569	ND	ND	ND	ND	ND	ND	0.655	NS/F
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS/F
Fluoranthene	ND	0.667	ND	ND	0.413	0.472	ND	ND	0.938	NS/F
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS/F
Indeno (1,2,3-cd) pyrene	ND	0.529	ND	ND	ND	ND	ND	ND	1.30	NS/F
Naphthalene	ND	ND	ND	ND	ND	7.35	10.9	ND	ND	NS/F
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS/F
Pyrene	ND	0.813	ND	ND	ND	ND	ND	ND	1.33	NS/F

Notes:
ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0000584

Table 5 (continued)
Groundwater Analytical Results
Polynuclear Aromatic Hydrocarbons
10/28/96

Willbridge Terminal
Portland, Oregon

Parameters	B-2 (ppb)	B-3 (ppb)	B-4 (ppb)	B-6 (ppb)	B-16 (ppb)	B-17 (ppb)	B-18 (ppb)	B-22 (ppb)	B-25 (ppb)	B-27 (ppb)	B-35 (ppb)	B-36 (ppb)	B-37 (ppb)	B-40 (ppb)
							Unocal							
Acenaphthene	ND	ND	NS	ND	ND	ND	ND	NS	ND	NS/F	NS	ND	ND	ND
Acenaphthylene	ND	ND	NS	ND	ND	ND	ND	NS	ND	NS/F	NS	ND	ND	ND
Anthracene	ND	ND	NS	ND	ND	ND	ND	NS	ND	NS/F	NS	ND	ND	ND
Benzo (a) anthracene	ND	ND	NS	ND	ND	ND	ND	NS	ND	NS/F	NS	ND	ND	ND
Benzo (b) fluoranthene	ND	ND	NS	ND	ND	ND	ND	NS	ND	NS/F	NS	ND	ND	ND
Benzo (k) flouranthene	ND	ND	NS	ND	ND	ND	ND	NS	ND	NS/F	NS	ND	ND	ND
Benzo (a) pyrene	ND	ND	NS	ND	ND	ND	ND	NS	ND	NS/F	NS	ND	ND	ND
Benzo (g,h,i) perylene	ND	ND	NS	ND	ND	ND	ND	NS	ND	NS/F	NS	ND	0.224	ND
Chrysene	ND	ND	NS	ND	ND	0.298	ND	NS	ND	NS/F	NS	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	NS	ND	ND	ND	ND	NS	ND	NS/F	NS	ND	ND	ND
Fluoranthene	ND	ND	NS	ND	2.21	ND	ND	NS	ND	NS/F	NS	ND	ND	ND
Fluorene	ND	ND	NS	ND	ND	ND	ND	NS	ND	NS/F	NS	ND	ND	ND
Indeno (1,2,3-cd) pyrene	ND	ND	NS	ND	ND	ND	ND	NS	ND	NS/F	NS	ND	ND	ND
Naphthalene	ND	11.8	NS	25.9	ND	6.57	ND	NS	ND	NS/F	NS	ND	ND	ND
Phenanthrene	ND	ND	NS	ND	ND	ND	ND	NS	ND	NS/F	NS	ND	ND	43.1
Pyrene	ND	ND	NS	ND	ND	ND	2.68	NS	ND	NS/F	NS	ND	ND	32.8

Notes:
ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0005585

Table 5 (continued)
Groundwater Analytical Results
Polynuclear Aromatic Hydrocarbons
10/28/96

Willbridge Terminal
Portland, Oregon

Parameters	U-2 (ppb)	U-3 (ppb)	U-4 (ppb)	U-5 (ppb)	U-5A (ppb)	MW-7 (ppb)	MW-11 (ppb)	MW-22 (ppb)	MW-23 (ppb)	MW-24 (ppb)	MW-26 (ppb)	MW-28 (ppb)	MW-31 (ppb)	MW-32 (ppb)	MW-36 (ppb)	MW-37 (ppb)
									Shell/GATX							
Acenaphthene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Anthracene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Benzo (b) fluoranthene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Benzo (k) flouranthene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Benzo (g,h,i) perylene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Chrysene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Fluorene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Naphthalene	ND	ND	NS/F	NS/F	NS/F	NS/F	230	360	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND
Pyrene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	NS/F	NS	NS/F	ND	ND	ND	ND	ND

Notes:
ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0000586

Table 6
Groundwater Analytical Results
Polynuclear Aromatic Hydrocarbons
07/01/96

Willbridge Terminal
Portland, Oregon

Parameters	B-7 (ppb)	B-9 (ppb)	B-10 (ppb)	B-11 (ppb)	B-14 (ppb)	B-14 (ppb) Duplicate	B-28 (ppb)	B-30 (ppb)	CR-8 (ppb)	CR-11 (ppb)
						Chevron				
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	0.22	0.13	ND	ND	ND	0.61	ND
Benzo (b) fluoranthene	ND	ND	ND	0.17	ND	ND	ND	ND	1.0	ND
Benzo (k) flouranthene	ND	ND	ND	ND	ND	ND	ND	ND	0.38	ND
Benzo (a) pyrene	ND	ND	ND	0.16	0.12	0.13	ND	ND	1.2	ND
Benzo (g,h,i) perylene	ND	ND	ND	0.24	0.25	ND	ND	ND	1.8	ND
Chrysene	ND	ND	ND	0.22	0.15	0.12	ND	ND	0.77	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	2.4	2.2	2.0	ND	ND	0.98	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	ND	ND	ND	0.20	ND	0.12	ND	ND	1.2	ND
Naphthalene	ND	ND	ND	ND	12	ND	41	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	3.0	1.9	1.6	ND	ND	1.4	ND

Notes:
ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR00005587

Table 6 (continued)
Groundwater Analytical Results
Polynuclear Aromatic Hydrocarbons
07/01/96

Willbridge Terminal
Portland, Oregon

Parameters	B-4 (ppb)	B-17 (ppb)	B-18 (ppb)	B-22 (ppb)	B-27 (ppb)	B-35 (ppb)	B-36 (ppb)	B-37 (ppb)
				Unocal				
Acenaphthene	NS/F	ND	ND	ND	NS/F	ND	ND	ND
Acenaphthylene	NS/F	ND	ND	ND	NS/F	ND	ND	ND
Anthracene	NS/F	ND	ND	ND	NS/F	ND	ND	ND
Benzo (a) anthracene	NS/F	ND	ND	ND	NS/F	18	7.5	ND
Benzo (b) fluoranthene	NS/F	ND	ND	ND	NS/F	2.1	ND	ND
Benzo (k) flouranthene	NS/F	ND	ND	ND	NS/F	3.8	ND	ND
Benzo (a) pyrene	NS/F	ND	ND	ND	NS/F	1.9	ND	ND
Benzo (g,h,i) perylene	NS/F	ND	ND	ND	NS/F	2.2	ND	ND
Chrysene	NS/F	ND	ND	ND	NS/F	14	5.5	ND
Dibenzo (a,h) anthracene	NS/F	ND	ND	ND	NS/F	ND	ND	ND
Fluoranthene	NS/F	ND	ND	ND	NS/F	ND	64	ND
Fluorene	NS/F	13	ND	ND	NS/F	44	ND	ND
Indeno (1,2,3-cd) pyrene	NS/F	ND	ND	ND	NS/F	ND	ND	ND
Naphthalene	NS/F	22	ND	ND	NS/F	25	ND	ND
Phenanthrene	NS/F	16	ND	ND	NS/F	120	ND	ND
Pyrene	NS/F	ND	ND	ND	NS/F	ND	76	ND

Notes:
ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0000588

Table 6 (continued)
Groundwater Analytical Results
Polynuclear Aromatic Hydrocarbons
07/01/96

Willbridge Terminal
Portland, Oregon

Parameters	U-2 (ppb)	U-3 (ppb)	U-4 (ppb)	U-5 (ppb)	U-5A (ppb)	MW-7 (ppb)	MW-11 (ppb)	MW-22 (ppb)	MW-22 (ppb) Duplicate	MW-23 (ppb)	MW-26 (ppb)	MW-28 (ppb)	MW-31 (ppb)	MW-32 (ppb)	MW-36 (ppb)	MW-37 (ppb)
									Shell/GATX							
Acenaphthene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND
Anthracene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	0.66	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND
Benzo (b) fluoranthene	ND	0.98	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND
Benzo (k) flouranthene	ND	0.52	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	0.74	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND
Benzo (g,h,i) perylene	ND	0.95	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND
Chrysene	ND	0.87	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND
Fluorene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	ND	0.70	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND
Naphthalene	8.3	ND	NS/F	NS/F	NS/F	NS/F	280	240	260	NS/F	NS/F	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND
Pyrene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	NS/F	NS/F	ND	ND	ND	ND	ND

Notes:
ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR00005589

Table 7
Groundwater Analytical Results
Polynuclear Aromatic Hydrocarbons
4/22/96

Willbridge Terminal
Portland, Oregon

Parameters	B-7 (ppb)	B-9 (ppb)	B-10 (ppb)	B-11 (ppb)	B-14 (ppb)	B-14 (ppb) Duplicate	B-28 (ppb)	B-30 (ppb)	CR-8 (ppb)	CR-11 (ppb)
						Chevron				
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	0.17	ND	ND	0.21	0.12	ND	ND	1.1	ND
Benzo (b) fluoranthene	ND	0.43	ND	ND	ND	ND	ND	ND	2.1	ND
Benzo (k) flouranthene	ND	0.18	ND	ND	ND	ND	ND	ND	1.0	ND
Benzo (a) pyrene	ND	0.28	ND	ND	ND	ND	ND	ND	3.0	ND
Benzo (g,h,i) perylene	ND	0.38	ND	0.10	ND	0.13	ND	ND	3.8	ND
Chrysene	ND	0.34	ND	ND	0.64	0.45	ND	ND	1.4	ND
Dibenzo (a,h) anthracene	ND	0.19	ND	ND	ND	ND	ND	ND	2.7	ND
Fluoranthene	ND	0.64	ND	2.4	2.4	1.9	ND	ND	1.7	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	ND	0.33	ND	ND	ND	ND	ND	ND	2.9	ND
Naphthalene	ND	ND	ND	ND	7.6	6.3	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	0.58	ND	4.1	3.3	2.5	ND	ND	2.5	ND

Notes:
ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0005590

Table 7 (continued)
Groundwater Analytical Results
Polynuclear Aromatic Hydrocarbons
4/22/96

Willbridge Terminal
Portland, Oregon

Parameters	B-2 (ppb)	B-3 (ppb)	B-4 (ppb)	B-6 (ppb)	B-16 (ppb)	B-17 (ppb)	B-18 (ppb)	B-22 (ppb)	B-25 (ppb)	B-27 (ppb)	B-35 (ppb)	B-36 (ppb)	B-37 (ppb)	B-40 (ppb)
								Unocal						
Acenaphthene	ND	ND	NS/F	ND	ND	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Acenaphthylene	ND	ND	NS/F	ND	ND	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Anthracene	ND	ND	NS/F	ND	ND	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Benzo (a) anthracene	ND	ND	NS/F	ND	ND	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Benzo (b) fluoranthene	ND	ND	NS/F	ND	ND	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Benzo (k) flouranthene	ND	ND	NS/F	ND	ND	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Benzo (a) pyrene	ND	ND	NS/F	ND	ND	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Benzo (g,h,i) perylene	ND	ND	NS/F	ND	ND	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Chrysene	ND	ND	NS/F	ND	ND	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	NS/F	ND	ND	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Fluoranthene	ND	ND	NS/F	ND	ND	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Fluorene	7.7	ND	NS/F	ND	5.9	5.8	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Indeno (1,2,3-cd) pyrene	ND	ND	NS/F	ND	ND	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Naphthalene	ND	120	NS/F	ND	ND	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Phenanthrene	ND	ND	NS/F	ND	6.2	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND
Pyrene	ND	ND	NS/F	ND	ND	ND	ND	NS	ND	NS/F	NS/F	ND	ND	ND

Notes:
ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0005591

Table 7 (continued)
Groundwater Analytical Results
Polynuclear Aromatic Hydrocarbons
4/22/96

Willbridge Terminal
Portland, Oregon

Parameters	U-2 (ppb)	U-3 (ppb)	U-4 (ppb)	U-5 (ppb)	U-5A (ppb)	MW-7 (ppb)	MW-11 (ppb)	MW-22 (ppb)	MW-23 (ppb)	MW-23 (ppb) Duplicate	MW-26 (ppb)	MW-28 (ppb)	MW-31 (ppb)	MW-36 (ppb)	MW-37 (ppb)
									Shell/GATX						
Acenaphthene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	ND
Acenaphthylene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	ND
Anthracene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	0.77
Benzo (b) fluoranthene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	0.85
Benzo (k) flouranthene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	0.44
Benzo (a) pyrene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	0.91
Benzo (g,h,i) perylene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	1.0
Chrysene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	2.6
Dibenzo (a,h) anthracene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	ND
Fluoranthene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	ND
Fluorene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	0.77
Naphthalene	ND	ND	NS/F	NS/F	NS/F	NS/F	540	370	17	ND	NS/F	ND	ND	ND	ND
Phenanthrene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	ND
Pyrene	ND	ND	NS/F	NS/F	NS/F	NS/F	ND	ND	ND	ND	NS/F	ND	ND	ND	ND

Notes:
ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0005592

Table 8
Grounwater Analytical Results
Polynuclear Aromatic Hydrocarbons
01-22/23-96

Willbridge Terminal
Portland, Oregon

Parameters	B-7 (ppb)	B-9 (ppb)	B-10 (ppb)	B-11 (ppb)	B-13 (ppb)	B-14 (ppb)	B-14 (ppb) (Duplicate)	B-28 (ppb)	B-30 (ppb)	CR-3 (ppb)	CR-8 (ppb)	CR-11 (ppb)
							Chevron					
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	0.4	ND	0.11	ND	ND	ND	0.54	ND
Benzo (b) fluoranthene	ND	ND	ND	ND	0.67	ND	ND	ND	ND	ND	1.4	ND
Benzo (k) flouranthene	ND	ND	ND	ND	0.34	ND	ND	ND	ND	ND	0.56	ND
Benzo (a) pyrene	ND	ND	ND	ND	0.49	ND	ND	ND	ND	ND	1.9	ND
Benzo (g,h,i) perylene	ND	ND	ND	ND	0.76	ND	ND	ND	ND	ND	2.3	ND
Chrysene	ND	ND	ND	ND	0.97	ND	0.36	ND	ND	ND	0.82	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	1.2	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	ND	ND	ND	ND	0.66	ND	ND	ND	ND	ND	2.1	ND
Naphthalene	ND	ND	ND	9.2	21	ND	7.6	7.0	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND

Notes:
ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0005593

Table 8 (continued)
Groundwater Analytical Results
Polynuclear Aromatic Hydrocarbons
01-22/23-96

Willbridge Terminal
Portland, Oregon

Parameters	B-4 (ppb)	B-17 (ppb)	B-18 (ppb)	B-22 (ppb)	B-27 (ppb)	B-29 (ppb)	B-35 (ppb)	B-36 (ppb)	B-37 (ppb)	U-2 (ppb)	U-3 (ppb)	U-4 (ppb)	U-5 (ppb)	U-5A (ppb)
							Unocal							
Acenaphthene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Acenaphthylene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Anthracene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Benzo (a) anthracene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Benzo (b) fluoranthene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Benzo (k) flouranthene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Benzo (a) pyrene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Benzo (g,h,i) perylene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Chrysene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Dibenzo (a,h) anthracene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Fluoranthene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Fluorene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Indeno (1,2,3-cd) pyrene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Naphthalene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Phenanthrene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F
Pyrene	NS/F	NS	NS	NS	NS/F	ND	NS/F	NS	NS/F	NS	NS/F	NS/F	NS/F	NS/F

Notes:
ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0005594

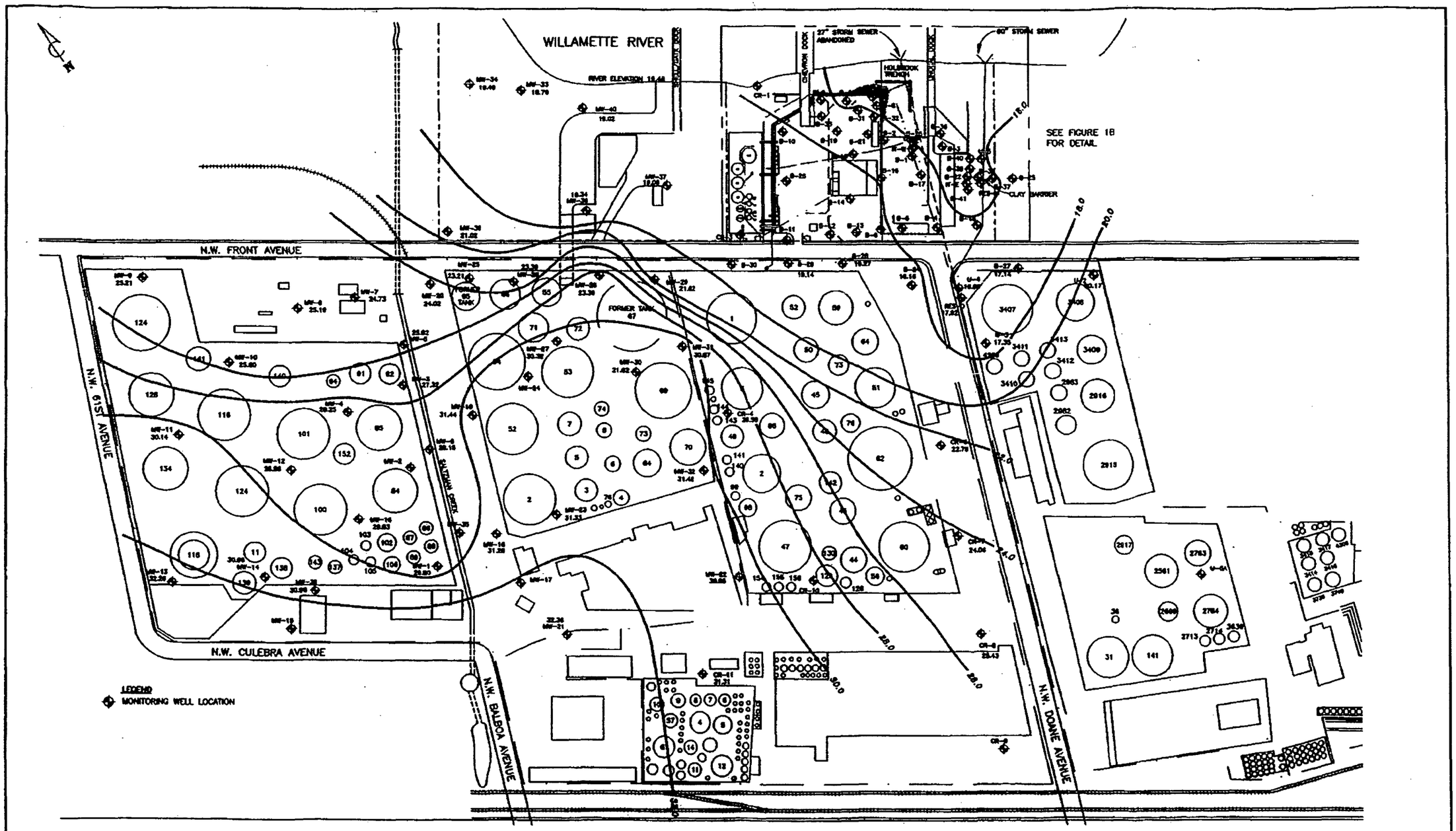
Table 8 (continued)
Grounwater Analytical Results
Polynuclear Aromatic Hydrocarbons
01-22/23-96

Willbridge Terminal
Portland, Oregon

Parameters	MW-7 (ppb)	MW-11 (ppb)	MW-22 (ppb)	MW-22 (ppb) (Duplicate)	MW-23 (ppb)	MW-26 (ppb)	MW-26 (ppb)	MW-28 (ppb)	MW-31 (ppb)	MW-36 (ppb)	MW-37 (ppb)
						Shell/GATX					
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	1.2
Benzo (b) fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	2.3
Benzo (k) flouranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	1.0
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	2.8
Benzo (g,h,i) perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	1.3
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	3.6
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Indeno (1,2,3-cd) pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	1.6
Naphthalene	ND	470	480	440	ND	22	ND	ND	ND	NS	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND

Notes:
ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0005595



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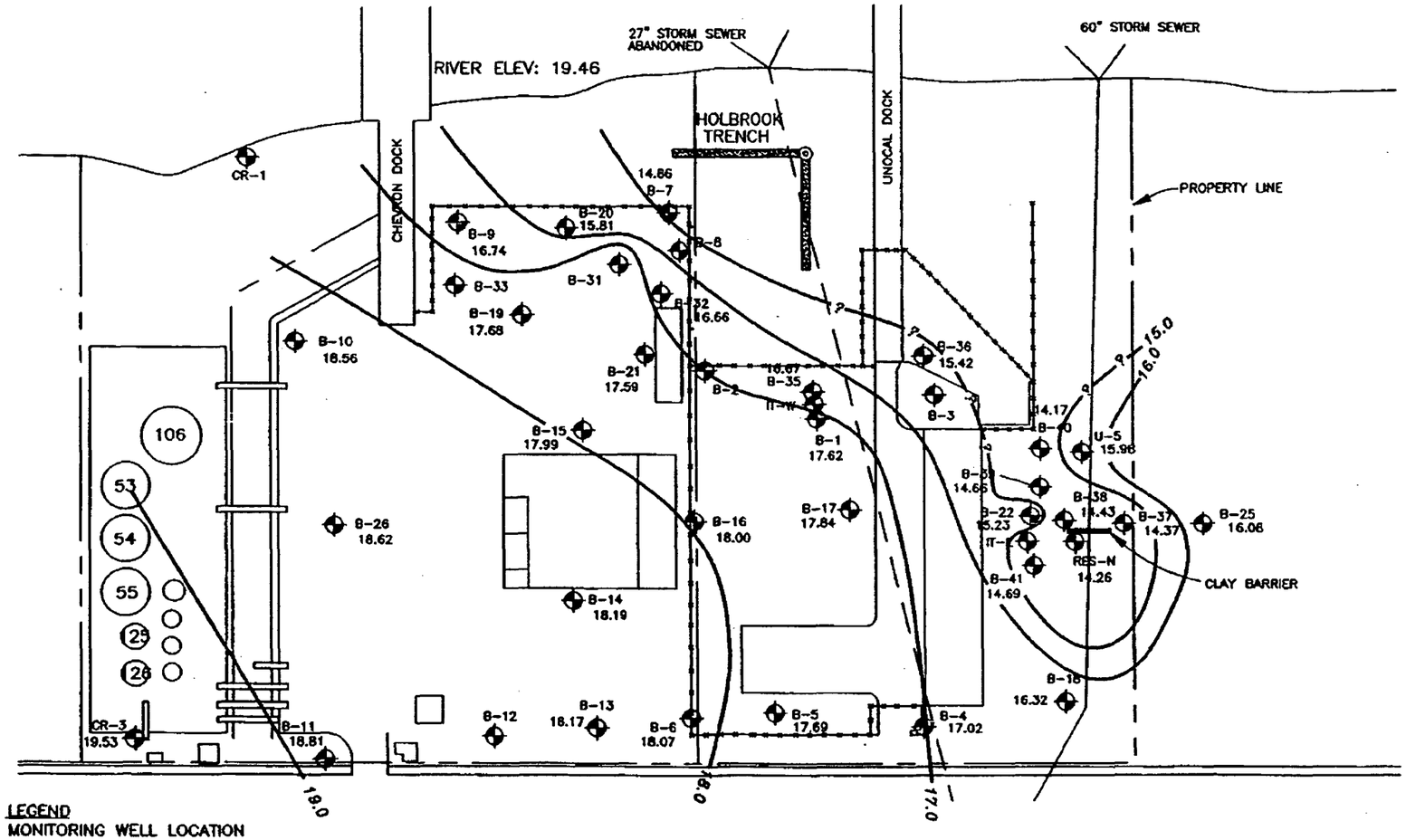


LEGEND

B-14 ⊕ MONITORING WELL LOCATION

18.62 GROUNDWATER ELEVATION IN FEET – MSL, 10-96

19.0 — GROUNDWATER ELEVATION CONTOUR IN FEET – MSL, 10-96

SCALE

0 50 100 FEET

Basemap from CH2M HIll map "Dockbase.dwg"
Reference: 1105/001/Dockarea.dwg

PACIFIC ENVIRONMENTAL GROUP, INC.

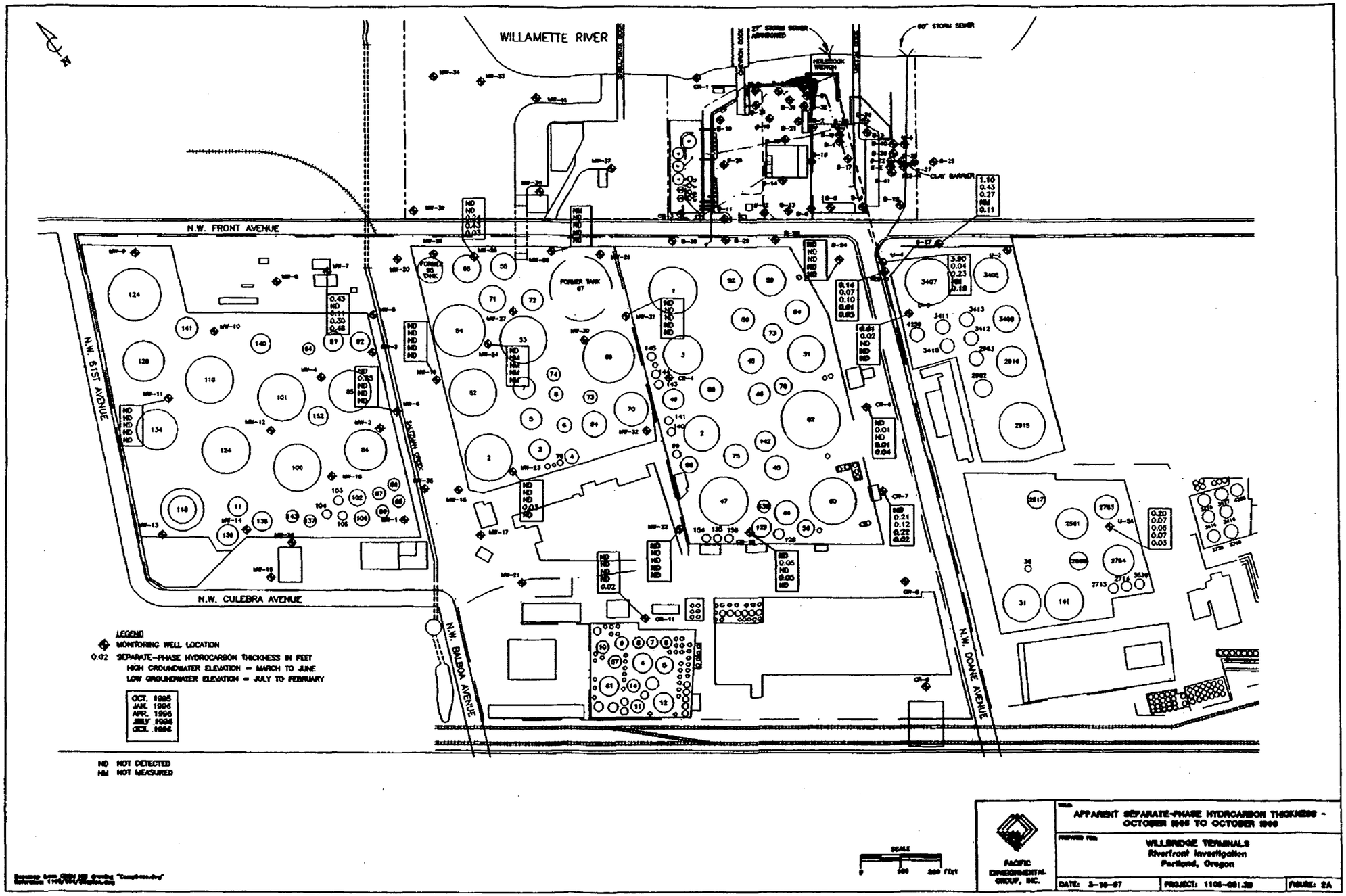
GROUNDWATER ELEVATION CONTOUR MAP - OCTOBER, 1996

PREPARED FOR:

WILLBRIDGE TERMINALS
Riverfront Investigation
Portland, Oregon

DATE: 3-10-97 | PROJECT: 1105-001.28 | FIGURE: 13

COPPOR00005597



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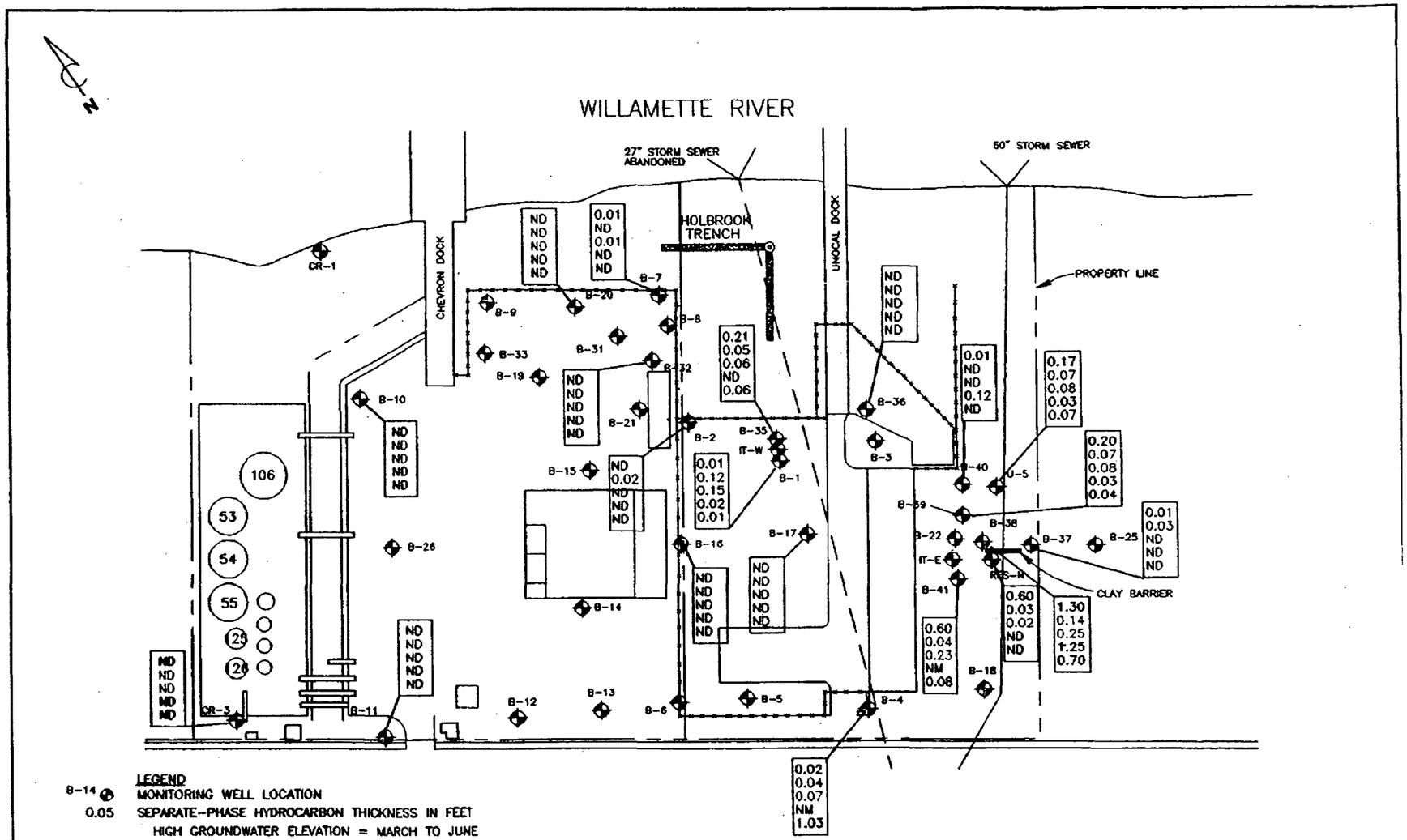

LEGEND

B-14 ⊕ MONITORING WELL LOCATION

0.05 SEPARATE-PHASE HYDROCARBON THICKNESS IN FEET

HIGH GROUNDWATER ELEVATION = MARCH TO JUNE

LOW GROUNDWATER ELEVATION = JULY TO FEBRUARY

OCT. 1995
JAN. 1996
APR. 1996
JULY 1996
OCT. 1996

ND NOT DETECTED

NM NOT MEASURED

SCALE 0 50 100 FEET

Basemap from CH2M Hill map "Dockbase.dwg"
Reference: 1105/001/Dockbase.dwg

PACIFIC ENVIRONMENTAL GROUP, INC.

APPARENT SEPARATE-PHASE HYDROCARBON THICKNESS - OCTOBER 1995 TO OCTOBER 1996

PREPARED FOR:

WILLBRIDGE TERMINALS
Riverfront Investigation
Portland, Oregon

DATE: 3-10-97 | PROJECT: 1105-001.28 | FIGURE: 28

COPPOR0000599

ATTACHMENT A

CERTIFIED ANALYTICAL REPORTS

CHAIN-OF-CUSTODY DOCUMENTATION

PACIFIC
ENVIRONMENTAL
GROUP, INC.

December 10, 1997
Project 1115-099.2A

Ms. Jill Kiernan, P.E.
Oregon Department of Environmental Quality
Waste Management and Cleanup
2020 SW Fourth Avenue, Suite 400
Portland, Oregon 97204

Re: Third Quarter (June - August 1997) Report
RI/FS Interim Action
Willbridge Facility
Portland, Oregon
Consent Order WMCSR-NWR-94-06

Dear Ms. Kiernan:

Pacific Environmental Group, Inc. (PACIFIC), is pleased to present the third quarter 1997 progress report for the remedial investigation/feasibility study (RI/FS) work being performed at the Chevron, Tosco (formerly Unocal), and GATX (formerly Shell) terminals which compose the Willbridge Facility in Portland, Oregon (Figure 1). This letter presents a summary of the following:

- Actions taken under the Consent Order from June to August 1997.
- Third Quarter 1997 sampling, test results, and other data generated between June and August 1997.

This progress report fulfills the requirement of Section 7F of Oregon Department of Environmental Quality (DEQ) Consent Order WMCSR-NWR-94-06.

ACTIVITIES PERFORMED THIRD QUARTER 1997

The following work was performed during June through August 1997:

- Performed quarterly groundwater sampling at the Chevron, GATX, and Tosco terminals.
- Performed monthly separate-phase hydrocarbon (SPH) removal from wells located on the Tosco, Chevron, and GATX terminals.

4020 148th Avenue N.E., Suite B, Redmond, Washington 98052 (206) 869-5099 FAX (206) 869-5639
7320 SW Hunziker Street, Suite 320, Portland, Oregon 97223 (503) 639-6305 FAX (503) 639-7482

THIRD QUARTER 1997 MONITORING ANALYSIS

Interim action monitoring activities performed during the third quarter included water level and SPH thickness measurements and groundwater sampling from selected wells, as outlined in the Field Coordination Plan dated April 1995.

Hydrogeological Analysis

Water level measurements were performed in July 1997. Measurements were corrected for SPH where encountered. A groundwater table contour map using the July 1997 data is shown on Figures 2A and 2B. The July 1997 groundwater elevation data is presented in Table 1. Water elevation and SPH recovery data for July 1997 and historic water elevation measurements are presented in Table 5.

Water levels beneath the site are influenced by annual precipitation cycles and by river stage fluctuations. The effect of river stage fluctuations is most pronounced on water levels in wells along the river front. During the third quarter (June through August 1997), water table elevations in the vicinity of the river decreased from second quarter levels by approximately one foot, while water table elevations in upgradient facility wells decreased by approximately 1.5 feet. These changes are likely in response to continued decline in river stage combined with cessation of upgradient recharge.

The direction of groundwater flow, inferred from the elevation contours, is generally toward the river, with a localized groundwater mound in the GATX south tank farm, and apparent elongated groundwater depressions (troughs) in the vicinity of Doane Avenue and the Saltzman Creek flume. These troughs may be caused by groundwater drainage through the backfill associated with the Doane Avenue storm sewer conduit and the Saltzman Creek flume. The groundwater mound in the GATX tank farm may be caused by the difference in hydraulic conductivity of the stratigraphic units beneath the GATX south tank farm (silt/clay) and the remainder of the site (sandy fill) or may represent a hydrogeological divide between the Saltzman Creek drainage and the historic Holbrook Slough drainage.

Hydrological Analysis

The Willamette River stage (measured at the Morrison Bridge river gauge and converted to City of Portland datum) ranged from a quarterly high of 21.36 feet on June 5 to a low of 7.02 feet August 12. The river stage averaged approximately 8.65 feet between July 28 and August 1, 1997, the dates of the third quarter groundwater monitoring. Precipitation and river stage data are shown on Figure 3.

Groundwater Analytical Results

Groundwater samples collected from selected facility monitoring wells between July 30 and August 1, 1997 were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds by EPA Method 8020, polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270-SIM, and RCRA Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) by EPA Method 6010A/7000 Series. The groundwater sampling protocol is presented in Attachment A.

The July 1997 BTEX results are presented in Table 2 and historic BTEX results are presented in Table 6. The July 1997 PAH results are presented in Table 3 and PAH results for the previous five quarters are presented in Tables 7, 8, 9, 10 and 11. The July 1997 metals results are presented in Tables 4A and 4B. Certified analytical results are presented in Attachment A. Samples were not collected from wells containing SPH (as designated by NS/F in the tables).

BTEX Compounds

The July 1997 BTEX testing results appear to be consistent with the April 1997 results. Concentrations of BTEX in Well B-17 have increased the last two quarters after previously decreasing for two quarters. Concentrations of BTEX decreased in Wells MW-11, MW-22, MW-37, and U-2 after increased concentrations the previous two quarters. Concentrations of BTEX decreased in Well B-30 after increased concentrations the previous three quarters. Concentrations in Wells B-10, B-14, B-28, B-30, CR-8, and MW-23 have decreased from the last quarter results. Concentrations in Wells B-11, B-17, B-35, CR-11, MW-8, MW-15, and U-3 have increased from the last quarter results.

The BTEX levels have remained both unchanged and non-detect since last quarter in Wells B-7, B-18, B-36, B-37, MW-10, MW-13, MW-21, MW-28, MW-31, MW-32, MW-33, MW-36, MW-40, and U-5. Previously unsampled Well CR-9 reported non detectable concentrations of BTEX constituents.

PAH Compounds

The July 1997 PAH analytical results report detected PAH concentrations similar to April 1997 results. Reported concentrations of PAH compounds were generally below 1 part per billion (ppb), with the exception of naphthalene, and fluorene. Well B-35 reported concentrations of fluoranthene and pyrene above 1 ppb. Detected concentrations of naphthalene, and phenanthrene generally decreased from April 1997. Concentrations of acenaphthene, fluorene and flouranthene appeared to increase from April 1997 results. Concentrations of naphthalene decreased by up to 181 ppb in Wells B-11, B-14, B-30, MW-8, MW-11, MW-22, and U-2. Wells B-28, B-36, B-37, CR-9, U-2, U-3, MW-8, MW-10, MW-13, MW-15, MW-21, MW-32, MW-33, MW-36, and MW-40 were reported as non detect for all PAH compounds at method detection limits.

Concentrations of carcinogenic PAHs (CPAHs) generally decreased at the facility; CPAHs were detected in Wells B-14, B-35, CR-8, and MW-23. Of these, only Well B-35 reported CPAH concentrations above 1 ppb. All other wells analyzed for PAHs were non detect for CPAHs.

Metals

Samples for RCRA Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) were collected and analyzed for total (unfiltered) metal concentrations. A selection (approximately 10 percent of the total) were additionally analyzed for dissolved (filtered) metal concentrations. Dissolved metal samples were field-filtered using a 0.45-micron filter capsule.

Total metals analytical results report concentrations of arsenic, barium, chromium, and lead in the majority of sampled wells. Of the 32 wells sampled for total metals, cadmium was detected in five wells, selenium in eight, and mercury in five. The majority of wells reporting concentrations of total cadmium were located at the Chevron terminal. No silver was detected in wells sampled July 1997. Concentrations of analyzed total metals remained below 1 part per million (ppm) in all sampled wells, with the exception of barium in B-10, B-18, and MW-33.

Concentrations of mercury in Well CR-11 increased from non detectable levels in April 1997 to detectable levels in July 1997. Concentrations of selenium in Wells MW 10, MW-11, MW-21, and MW-22 dropped from detectable levels in April 1997 to non detect July 1997. Generally arsenic and barium concentrations increased from April 1997 to July 1997.

Dissolved metals analytical results for chromium, lead, and selenium are similar to the April 1997 sampling results; reported dissolved concentrations are reduced or non detect when compared to the respective total metal results. Cadmium was detected in July 1997 total metal samples; however, results for dissolved metal samples were non detect for cadmium, suggesting that cadmium is not present in dissolved form. Results for arsenic and barium analyses are similar to the April 1997 results; no significant reduction in reported concentrations is seen between dissolved and total metals analyses for these metals. Mercury analyses were non detect for all dissolved samples. The July 1997 data may indicate that arsenic and barium are present in a dissolved state, while cadmium, chromium, lead, mercury, and selenium concentrations are the result of suspended solids in the sample.

Separate-Phase Hydrocarbon Analysis

Separate-phase hydrocarbon thicknesses were measured at selected wells on a monthly basis (Tables 1 and 5). Apparent SPH thickness data for July and October 1996, as well as, January, April and July 1997 are shown on Figures 3A and 3B.

SPH near the riverfront area is historically concentrated in the current and former alignments of the Doane Avenue stormwater outfall and possibly the Holbrook Slough. Wells B-1, B-4, B-17, and B-35 are located in the dock area nearest the old Doane Avenue storm drain alignment. Wells B-38, B-39, B-40, and U-5 are adjacent to the new Doane Avenue storm drain in the riverfront area. Well B-7 is located nearest the historic Holbrook Slough outfall. Well RES-N is constructed in the backfill of the storm drain in the riverfront area. Well B-20 is located upgradient of the Holbrook Slough recovery trench.

The July 1997 product measurements generally indicate SPH thicknesses similar to previous quarterly measurements in the riverfront area wells (Table 2). North of Front Avenue, SPH was measured in Tosco Wells B-1, B-4, B-22, B-38, B-39, B-40, B-41, RES-N, and IT-E, as well as Chevron Wells B-7 and B-20. The SPH thickness in Well B-1 increased by 0.53 foot from the April 1997 thickness of 0.12 foot. Well B-22 increased from non detectable SPH thickness in April 1997 to a thickness of 2.26 feet in July 1997. Well B-39 contained an SPH thickness of 0.10 foot as measured in April 1997; this thickness increased to 0.97 foot in July 1997. Well B-41 increased from a SPH thickness of 0.03 foot in April 1997 to 0.70 foot in July 1997.

Within the tank farm areas, SPH was measured in Tosco Wells U-4 and U-5A. Separate-phase hydrocarbon thicknesses were also measured in CR-6, CR-7, CR-10, and along the perimeter of the Chevron tank farm. Separate-phase hydrocarbon was measured in Wells MW-6, MW-7, MW-24, and MW-28 south of Front Avenue within the GATX terminal. Well MW-6 increased from non detectable SPH thicknesses in April 1997 to a SPH thickness of 0.13-foot in July 1997. The SPH thickness in Well MW-7 decreased by three quarters of a foot to 1.05 feet in July 1997.

SEPARATE-PHASE HYDROCARBON RECOVERY

The SPH recovery program began in May 1995. Approximately 115 gallons of SPH were recovered by automated SPH product recovery equipment from late May 1995 to August 1996. Automated SPH recovery was discontinued at the facility in December 1996 and monthly manual recovery of SPH at the facility was initiated in early February 1997. Approximately 218.85 gallons of SPH have been removed to date by manual recovery methods. Approximately 43.85 gallons were manually recovered from June to August 1997.

Separate-phase hydrocarbon recovery by pumping was performed June 23, July 24, and August 27, 1997. Approximately 22.60 gallons of SPH were removed from Wells MW-6, MW-7, and MW-24 at the GATX terminal. Approximately 9.5 gallons of SPH were removed from Wells B-38, B-39, B-40, B-41, U-4, U-5A, RES-N and IT-E at the Tosco terminal. Approximately 11.75 gallons of SPH were removed from Wells B-7, CR-7, and CR-10 at the Chevron terminal. The SPH recovery data is presented in Table 1.

Seep and Sheen Monitoring

Containment booms currently encompass the shoreline between the Chevron and Tosco docks, and from the south edge of the Tosco dock to the southern property line (beyond the new Doane Avenue storm sewer outfall). Additionally, secondary containment booms are located inside of the first boom around the new Doane Avenue outfall pipe. Seeps and sheens are monitored by terminal personnel; significant sheens are reported to PACIFIC for further evaluation.

No sheening events were reported during third quarter 1997.

PROBLEMS ENCOUNTERED DURING THIRD QUARTER 1997

No problems were encountered during June 1997 through August 1997.

ACTIVITIES SCHEDULED FOR FOURTH QUARTER 1997 (SEPTEMBER - NOVEMBER 1997)

The following actions are scheduled for fourth quarter 1997:

- Monthly SPH removal from identified "hot-spot" wells.
- Gauging of water level elevations and SPH in all facility wells during the fourth quarter sampling event, scheduled for October 1997.

PACIFIC appreciates the opportunity to be of service. If you have any questions regarding this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

Lance Geselbracht for K.F.
Kevin M. Freeman
Project Hydrogeologist

Lance Geselbracht
Lance Geselbracht, P.E.
Senior Engineer

11150992A\3Q97.DOC

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Sincerely,

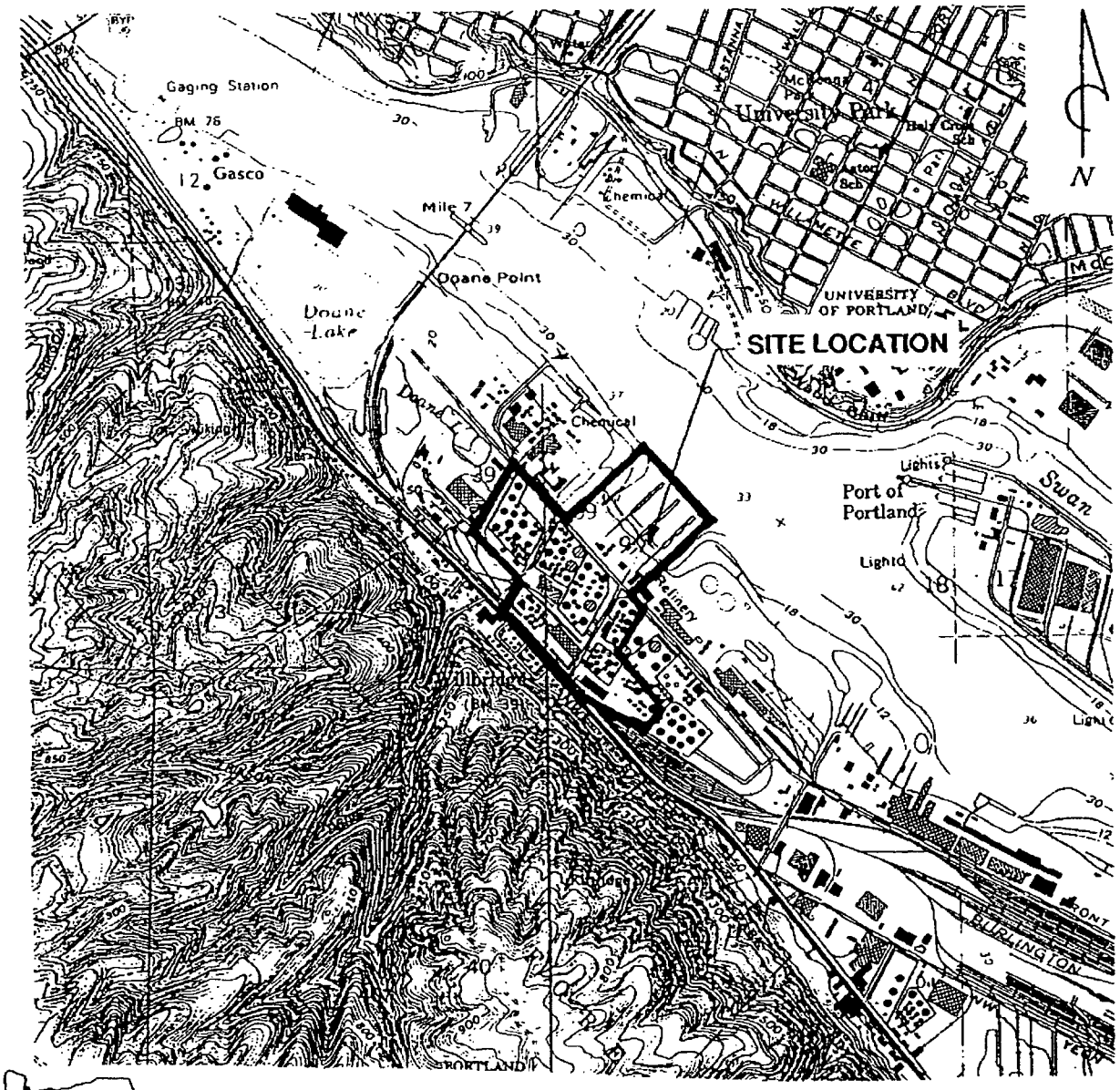
Pacific Environmental Group, Inc.

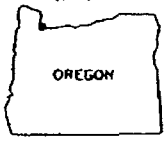
Kevin M. Freeman
Project Hydrogeologist

Lance Geselbracht, P.E.
Senior Engineer

Attachments: Figure 1 - Site Location Map
Figure 2A - Groundwater Elevation Contour Map (July 1997)
Figure 2B - Groundwater Elevation Contour Map (July 1997)
Figure 3A - Apparent Separate-Phase Hydrocarbon Thickness (July 1996 to July 1997)
Figure 3B - Apparent Separate-Phase Hydrocarbon Thickness (July 1996 to July 1997
Figure 4 - Precipitation and River Stage Hydrograph, Third Quarter 1997
Table 1 - Groundwater Elevation Data and SPH Recovery Data
Table 2 - Groundwater Analytical Results (Third Quarter BTEX)
Table 3 - Groundwater Analytical Results (Third Quarter PAHs)
Table 4A - Groundwater Analytical Results (Third Quarter Total Metals)
Table 4B - Groundwater Analytical Results (Third Quarter Dissolved Metals)
Table 5 - Groundwater Elevation and SPH Recovery Data (March 1995 to July 1997)
Table 6 - Groundwater Analytical Results (January 1995 to July 1997 BTEX)
Table 7 - Groundwater Analytical Results (April 1996 to July 1997 PAHs)
Attachment A - Sampling Protocol, Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Irv Jenkins, Shell Oil Products Company
Ms. Anne Marie Dockstader, Chevron Products Company
Mr. Martin Cramer, Tosco Northwest Company
Mr. Eric Conard, GATX Terminals Corporation





QUADRANGLE LOCATION

REFERENCES:

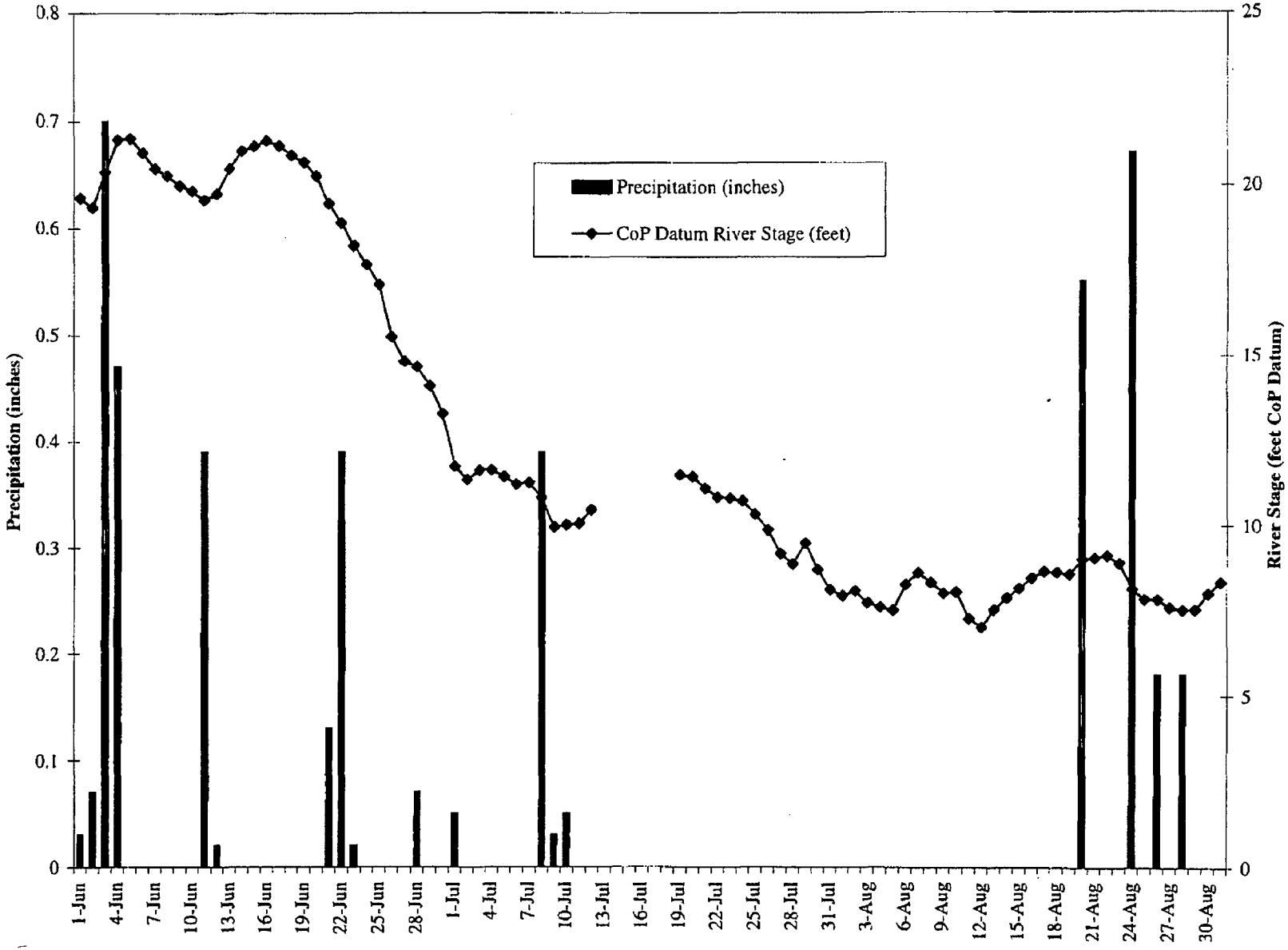
USGS 7.5 MIN TOPOGRAPHIC MAP
TITLED: PORTLAND, OREG-WASH
DATED: 1961 PHOTOREVISED: 1970-1977
TITLED: LINNTON, OREGON
DATED: 1990

SCALE IN FEET

2000 0 2000

PACIFIC ENVIRONMENTAL GROUP, INC.	WILLBRIDGE FACILITY Portland, Oregon	FIGURE: 1
	SITE LOCATION MAP	PROJECT: 1115-099.2A

Figure 4
Precipitation and River Stage
June - August 1997
Willbridge Facility



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December 10, 1997

COPPOR00005610

Table 1

Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron				
B-7	33.96	07/28/97	18.60	0.10	18.70	15.35	1.00
B-8	35.90	07/28/97	NP	0.00	17.30	18.60	0.00
B-9	33.95	07/28/97	NP	0.00	16.60	17.35	0.00
B-10	34.74	07/28/97	NP	0.00	15.43	19.31	0.00
B-11	34.95	07/28/97	NP	0.00	15.33	19.62	0.00
B-13	34.76	07/28/97	NP	0.00	15.85	18.91	0.00
B-14	36.59	07/28/97	NP	0.00	17.63	18.96	0.00
B-15	35.55	07/28/97	NP	0.00	16.77	18.78	0.00
B-19	34.71	07/28/97	NP	0.00	16.18	18.53	0.00
B-20	33.40	07/28/97	16.89	0.02	16.91	16.51	1.00
B-21	34.79	07/28/97	NP	0.00	16.45	18.34	0.00
B-24	34.70	07/28/97	NP	0.00	16.00	18.70	0.00
B-26	35.30	07/24/97	NP	0.00	15.80	19.50	0.00
B-28	35.25	07/24/97	NP	0.00	15.25	20.00	0.00
B-29	37.70	07/28/97	NP	0.00	15.40	22.30	0.00
B-30	35.35	07/28/97	NP	0.00	15.07	20.28	0.00
B-31	33.86	07/24/97	NP	0.00	15.89	17.97	0.00
B-32	34.23	07/28/97	NP	0.00	16.66	17.57	0.00
B-33	35.90	07/28/97	NP	0.00	16.24	19.66	0.00
CR-3	34.32	07/28/97	NP	0.00	14.51	19.81	0.00
CR-4	37.14	07/28/97	NP	0.00	6.31	30.83	0.00
CR-6	35.61	07/28/97	12.74	0.01	12.75	22.87	1.00
CR-7	35.57	07/24/97	11.52	0.10	11.62	24.03	2.75
CR-8	33.14	07/28/97	NP	0.00	7.30	25.84	0.00
CR-9	35.72	07/24/97	NP	0.00	5.71	30.01	0.00
CR-10	35.57	07/24/97	5.94	0.38	6.32	29.57	6.00
CR-11	34.43	07/24/97	NP	0.00	3.03	31.40	0.00
					Chevron Total SPH Recovered this Quarter:		**11.75**

Table 1 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX				
MW-1	35.43	07/30/97	NP	0.00	6.69	28.74	0.00
MW-2	35.77	07/30/97	NP	0.00	7.27	28.50	0.00
MW-3	36.02	07/30/97	NP	0.00	8.54	27.48	0.00
MW-4	36.39	07/30/97	NP	0.00	8.07	28.32	0.00
MW-5	33.52	07/30/97	NP	0.00	7.05	26.47	0.00
MW-6	33.34	07/30/97	5.10	0.13	5.23	28.22	0.25
MW-7	34.12	07/24/97	8.91	1.05	9.96	25.05	22.00
MW-8	33.95	07/30/97	NP	0.00	8.29	25.66	0.00
MW-9	36.53	07/24/97	NP	0.00	10.28	26.25	0.00
MW-10	35.82	07/30/97	NP	0.00	9.98	25.84	0.00
MW-11	36.47	07/30/97	NP	0.00	7.05	29.42	0.00
MW-12	35.95	07/30/97	NP	0.00	7.27	28.68	0.00
MW-13	37.89	07/30/97	NP	0.00	6.27	31.62	0.00
MW-14	36.28	07/30/97	NP	0.00	5.64	30.64	0.00
MW-15	37.50	07/30/97	NP	0.00	7.92	29.58	0.00
MW-16	34.93	07/30/97	NP	0.00	5.65	29.28	0.00
MW-17	36.05	07/30/97	NP	0.00	5.28	30.77	0.00
MW-18	33.76	07/30/97	NP	0.00	2.66	31.10	0.00
MW-19	33.39	07/30/97	NP	0.00	3.79	29.60	0.00
MW-20	34.76	07/30/97	NP	0.00	10.45	24.31	0.00
MW-21	34.33	07/30/97	NP	0.00	2.05	32.28	0.00
MW-22	35.65	07/30/97	NP	0.00	4.73	30.92	0.00
MW-23	36.06	07/30/97	NP	0.00	5.15	30.91	0.00
MW-24	35.15	07/30/97	8.30	0.16	8.46	26.83	0.25
MW-25	34.73	07/24/97	NP	0.00	10.92	23.81	0.00
MW-26	34.78	07/30/97	11.42	0.01	11.43	23.36	0.10
MW-27	35.67	07/30/97	NP	0.00	5.69	29.98	0.00
MW-28	34.39	07/30/97	NP	0.00	6.30	28.09	0.00
MW-29	35.77	07/30/97	NP	0.00	13.58	22.19	0.00
MW-30	36.39	07/30/97	NP	0.00	6.00	30.39	0.00
MW-31	37.55	07/30/97	NP	0.00	7.32	30.23	0.00
MW-32	37.01	07/30/97	NP	0.00	5.49	31.52	0.00
MW-33	39.34	07/30/97	NP	0.00	20.03	19.31	0.00
MW-34	39.67	07/30/97	NP	0.00	19.76	19.91	0.00
MW-36	34.88	07/30/97	NP	0.00	14.51	20.37	0.00
MW-37	34.86	07/30/97	NP	0.00	15.15	19.71	0.00
MW-40	33.65	07/30/97	NP	0.00	14.24	19.41	0.00
				GATX Total SPH Recovered this Quarter:			**22.60**

Table 1 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco				
B-1	34.79	07/28/97	17.15	0.65	17.80	17.54	NA
B-2	35.35	07/28/97	NP	0.00	16.94	18.41	0.00
B-3	36.79	07/28/97	NP	0.00	18.83	17.96	0.00
B-4	34.79	07/28/97	18.50	0.02	18.52	16.29	0.10
B-5	34.83	07/28/97	NP	0.00	16.54	18.29	0.00
B-6	35.41	07/28/97	NP	0.00	16.87	18.54	0.00
B-16	35.82	07/28/97	NP	0.00	17.15	18.67	0.00
B-17	35.59	07/28/97	NP	0.00	17.15	18.44	0.00
B-18	35.79	07/28/97	NP	0.00	19.14	16.65	0.00
B-22	35.83	07/28/97	18.89	2.26	21.15	16.60	1.00
B-27	35.74	07/25/97	NP	0.00	17.86	17.88	0.00
B-35	33.58	07/28/97	NP	0.00	16.05	17.53	0.00
B-36	30.97	07/28/97	NP	0.00	15.01	15.96	0.00
B-37	35.24	07/28/97	NP	0.00	20.30	14.94	0.00
B-38	34.75	07/25/97	19.78	0.21	19.99	14.94	0.75
B-39	33.92	07/25/97	18.72	0.97	19.69	15.05	2.75
B-40	33.19	07/25/97	18.86	0.04	18.90	14.32	1.50
B-41	34.85	07/25/97	18.13	0.70	18.83	16.61	0.10
IT-E	36.44	07/28/97	20.05	0.60	20.65	16.30	2.00
IT-W	35.99	07/28/97	NP	0.00	17.81	18.18	0.00
RES-N	38.58	07/28/97	23.46	0.02	23.48	15.12	0.10
RES-O	36.03	07/28/97	NP	0.00	17.65	18.38	0.00
U-2	35.02	07/28/97	NP	0.00	15.27	19.75	0.00
U-3	35.25	07/28/97	NP	0.00	13.83	21.42	0.00
U-4	34.46	07/25/97	15.85	0.01	15.86	18.61	0.10
U-5	34.20	07/28/97	NP	0.00	19.38	14.82	0.00
U-5A	33.77	07/25/97	6.89	0.06	6.95	26.87	1.10
					Tosco Total SPH Recovered this Quarter:		**9.50**
					Complete Total SPH Recovered this Quarter:		**43.85**

Notes:

SPH = Separate-phase hydrocarbon
NP = No product
NA = Not available
NM = Not measured
* = Groundwater elevation (GWE) is corrected for the presence of SPH using:
GWE = toc - (DTW + (SPH thickness x Specific gravity of SPH)) Specific gravity used is 0.85
** = SPH recovered represents total recovered for presented interval.

Table 2
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron			
B-9	07/31/97	ND	ND	ND	2.22
B-10	07/31/97	52.0	ND	ND	ND
B-11	07/31/97	339	150	141	448
B-14	07/31/97	407	37.2	118	67.0
Duplicate	07/31/97	332	32.0	83.5	51.0
B-28	07/31/97	2.19	ND	12.5	2.39
B-30	07/31/97	30.0	4.00	1.22	7.38
CR-8	07/31/97	ND	ND	ND	ND
CR-9	07/31/97	ND	ND	ND	ND
CR-11	07/31/97	35.2	ND	ND	ND

COPPOR00005614

Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX			
MW-8	07/30/97	155	6.24	93.8	135
MW-10	07/30/97	ND	ND	ND	ND
MW-11	07/30/97	6,390	2,630	2,970	10,800
MW-13	07/30/97	ND	ND	ND	ND
MW-15	07/30/97	9.78	ND	ND	ND
MW-21	07/30/97	ND	ND	ND	ND
Duplicate	07/30/97	ND	ND	ND	ND
MW-22	07/30/97	1,940	1,950	4,320	13,400
MW-23	07/30/97	22.3	ND	48.7	57.0
MW-28	07/30/97	ND	ND	ND	ND
MW-31	07/30/97	ND	ND	ND	ND
MW-32	07/30/97	ND	ND	ND	ND
MW-33	07/31/97	ND	ND	ND	ND
MW-36	07/31/97	ND	ND	ND	ND
MW-37	07/31/97	1,350	ND	29.2	42.6
MW-40	07/31/97	ND	ND	ND	ND

COPPOR00005615

Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco			
B-17	08/01/97	768	ND	ND	ND
B-18	08/01/97	ND	ND	ND	ND
B-35	08/01/97	8.25	5.19	ND	ND
B-36	08/01/97	ND	ND	ND	ND
B-37	08/01/97	ND	ND	ND	ND
U-2	08/01/97	6.66	ND	3.18	ND
U-3	08/01/97	14.9	14.8	ND	5.42
Duplicate	08/01/97	14.8	15.0	ND	5.80
U-5	08/01/97	ND	ND	ND	ND

Notes:

ppb = Parts per billion
ND = Not detected
NS = Not sampled
NS/F = Not sampled floating product present
NA = Not analyzed, not applicable
BTEX by EPA Method 8020

Table 3
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron																	
B-9	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.7	ND	ND	ND	ND
B-10	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.2	ND	ND	ND	ND
B-11	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.93	ND	ND	ND	0.196
B-14	07/31/97	ND	ND	ND	0.133	ND	ND	ND	ND	0.127	ND	0.660	2.00	ND	5.96	ND	0.802
Duplicate	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.622	1.82	ND	ND	ND	0.666
B-28	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-30	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.183	ND	ND	ND	ND	0.278
CR-8	07/31/97	ND	ND	ND	0.268	0.640	0.472	0.794	0.216	0.348	ND	0.500	ND	0.510	ND	ND	0.798
CR-9	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CR-11	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.30	ND	ND	ND	ND

COPPOR00005617

Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
								GATX									
MW-8	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-11	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	294	ND	ND
MW-13	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-21	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-22	07/30/97	14.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.67	ND	220	ND	ND
MW-23	07/30/97	10.4	ND	ND	0.106	ND	ND	ND	ND	0.203	ND	ND	0.908	ND	ND	ND	ND
MW-28	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	ND	ND	ND	ND
MW-31	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.509	ND	ND	ND	ND
MW-32	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-33	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-36	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-37	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.12	ND	ND	ND	ND
MW-40	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR0000618

Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco																	
B-17	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.6	ND	ND	ND	ND
B-18	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	ND	ND	ND	0.119
B-35	08/01/97	ND	ND	ND	1.58	ND	ND	ND	ND	ND	ND	9.62	20.6	ND	ND	ND	5.04
B-36	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-37	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
U-2	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
U-3	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
U-5	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.112	4.29	ND	ND	ND	0.149

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0000S619

Table 4A
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identi-fication	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Chevron				
B-9	07/31/97	20.4	184	ND	21.4	31.0	ND	ND	ND
B-10	07/31/97	45.9	1,010	ND	202	85.8	ND	2.40	ND
B-11	07/31/97	23.1	334	ND	43.2	32.7	ND	ND	ND
B-14	07/31/97	25.8	101	ND	7.00	11.4	ND	ND	ND
Duplicate	07/31/97	26.2	117	ND	8.90	14.1	ND	ND	ND
B-28	07/31/97	3.90	216	3.90	20.2	35.9	ND	1.10	ND
B-30	07/31/97	22.6	446	3.40	57.5	52.6	ND	1.20	ND
CR-8	07/31/97	23.1	166	3.00	11.3	29.5	ND	ND	ND
CR-9	07/31/97	22.2	178	ND	10.7	10.6	ND	ND	ND
CR-11	07/31/97	68.1	438	44.0	55.7	149	0.616	1.40	ND

COPPOR0000620

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					GATX				
MW-8	07/30/97	7.80	11.1	ND	ND	ND	ND	ND	ND
MW-10	07/30/97	5.80	74.5	ND	17.3	9.70	ND	ND	ND
MW-11	07/30/97	44.3	80.7	ND	4.00	38.1	0.250	ND	ND
MW-13	07/30/97	6.20	144	ND	10.9	16.7	ND	ND	ND
MW-15	07/30/97	1.10	84.7	ND	2.30	4.50	ND	ND	ND
MW-21	07/30/97	2.70	190	ND	1.20	2.30	ND	ND	ND
Duplicate	07/30/97	2.60	215	ND	1.20	4.40	ND	ND	ND
MW-22	07/30/97	87.1	167	ND	2.60	36.1	ND	ND	ND
MW-23	07/30/97	9.70	24.4	ND	2.20	49.2	ND	ND	ND
MW-28	07/30/97	1.40	26.6	ND	1.20	42.0	ND	ND	ND
MW-31	07/30/97	12.3	18.2	ND	1.20	12.6	ND	ND	ND
MW-32	07/30/97	ND	13.6	ND	1.60	8.90	ND	ND	ND
MW-33	07/31/97	47.2	1,320	ND	2.60	5.40	ND	ND	ND
MW-36	07/31/97	15.6	59.0	ND	2.80	7.80	ND	ND	ND
MW-37	07/31/97	18.3	45.3	ND	1.40	3.20	ND	ND	ND
MW-40	07/31/97	29.3	42.4	ND	66.5	72.5	0.760	ND	ND

COPPOR0005621

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Tosco				
B-17	08/01/97	52.7	255	ND	17.7	141	ND	1.30	ND
B-18	08/01/97	25.6	1,400	ND	148	46.5	0.830	3.20	ND
B-35	08/01/97	36.0	82.5	ND	4.00	9.60	ND	ND	ND
B-36	08/01/97	7.50	57.4	ND	10.5	2.10	ND	ND	ND
B-37	08/01/97	66.9	198	ND	17.6	7.50	ND	1.00	ND
U-2	08/01/97	10.2	40.7	ND	1.70	32.9	ND	ND	ND
U-3	08/01/97	36.5	331	1.80	98.6	127	0.290	1.70	ND
Duplicate	08/01/97	31.2	980	1.80	99.4	58.1	0.210	2.30	ND
U-5	08/01/97	8.90	78.3	ND	9.90	49.9	ND	ND	ND

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
Total Metals by EPA Method 6000/7000

COPPOR0005622

Table 4B
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Chevron				
B-14	07/31/97	26.5	65.2	ND	ND	1.10	ND	ND	ND
Duplicate	07/31/97	27.6	65.6	ND	ND	ND	ND	ND	ND
B-30	07/31/97	15.3	61.6	ND	ND	ND	ND	ND	ND
CR-9	07/31/97	1.00	33.9	ND	ND	ND	ND	ND	ND

COPPOR0005623

Table 4B (continued)
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identi-fication	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					GATX				
MW-13	07/30/97	ND	32.2	ND	ND	ND	ND	ND	ND
MW-21	07/30/97	3.00	220	ND	ND	ND	ND	ND	ND
Duplicate	07/30/97	2.60	198	ND	ND	ND	ND	ND	ND
MW-23	07/30/97	10.0	18.7	ND	1.00	1.20	ND	ND	ND
MW-37	07/31/97	21.0	45.3	ND	ND	ND	ND	ND	ND

COPPOR0005624

Table 4B (continued)
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identi-fication	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Tosco				
B-17	08/01/97	44.1	96.2	ND	1.00	3.40	ND	ND	ND
B-37	08/01/97	31.7	60.4	ND	ND	5.90	ND	ND	ND
U-3	08/01/97	23.9	89.5	ND	1.00	1.10	ND	ND	ND
Duplicate	08/01/97	25.8	90.8	ND	1.00	1.10	0.330	ND	ND

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
Dissolved Metals by EPA Method 6000/7000

COPPOR0005625

Table 5
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron				
B-7	33.96	03/24/95	18.07	0.00	18.07	15.89	NA
		04/24/95	18.61	0.00	18.61	15.35	NA
		05/22/95	18.56	0.00	18.56	15.40	NA
		06/19/95	18.77	0.00	18.77	15.19	NA
		07/24/95	19.74	0.00	19.74	14.22	NA
		08/28/95	20.03	0.00	20.03	13.93	NA
		09/25/95	19.79	0.01	19.80	14.17	NA
		10/23/95	19.56	0.01	19.57	14.40	NA
		11/27/95	18.61	0.00	18.61	15.35	NA
		12/29/95	17.74	0.00	17.74	16.22	NA
		01/22/96	15.82	0.00	15.82	18.14	NA
		02/26/96	14.09	0.04	14.13	19.86	NA
		03/25/96	17.38	0.01	17.39	16.58	NA
		04/22/96	17.07	0.01	17.08	16.89	NA
		05/28/96	16.46	0.00	16.46	17.50	NA
		06/24/96	17.96	0.00	17.96	16.00	NA
		07/22/96	18.79	0.00	18.79	15.17	NA
		08/26/96	19.18	0.00	19.18	14.78	NA
		09/23/96	19.22	0.00	19.22	14.74	NA
		10/28/96	19.10	0.00	19.10	14.86	NA
		11/25/96	17.95	0.00	17.95	16.01	NA
		01/29/97	NP	0.00	17.24	16.72	0.00
		04/21/97	NP	0.00	17.45	16.51	0.00
		07/28/97	18.60	0.10	18.70	15.35	1.00
						SPH Recovered to Date:	**1.00**
B-8	35.90	01/29/97	NP	0.00	15.99	19.91	0.00
		04/21/97	NP	0.00	16.67	19.23	0.00
		07/28/97	NP	0.00	17.30	18.60	0.00
						SPH Recovered to Date:	**0.00**
B-9	33.95	03/24/95	NA	0.00	16.01	17.94	NA
		04/24/95	NA	0.00	16.42	17.53	NA
		05/22/95	NA	0.00	16.54	17.41	NA
		06/19/95	NA	0.00	16.59	17.36	NA
		07/24/95	NA	0.00	17.45	16.50	NA
		08/28/95	NA	0.00	17.85	16.10	NA
		09/25/95	NA	0.00	17.85	16.10	NA
		10/23/95	NA	0.00	17.45	16.50	NA
		11/27/95	NA	0.00	16.51	17.44	NA
		12/29/95	NA	0.00	15.86	18.09	NA
		01/22/96	NA	0.00	15.31	18.64	NA
		01/29/96	NP	0.00	15.31	18.64	0.00
		02/26/96	NA	0.00	13.20	20.75	NA
		03/25/96	NA	0.00	15.49	18.46	NA
		04/22/96	NA	0.00	15.20	18.75	NA
		05/28/96	NA	0.00	15.47	18.48	NA
		06/24/96	NA	0.00	16.09	17.86	NA
		07/22/96	NA	0.00	16.61	17.34	NA

COPPOR00005626

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-9	33.95	08/26/96	NA	0.00	17.26	16.69	NA
		09/23/96	NA	0.00	17.14	16.81	NA
		10/28/96	NA	0.00	17.21	16.74	NA
		11/25/96	NA	0.00	16.35	17.60	NA
		01/29/97	NP	0.00	15.31	18.64	0.00
		04/21/97	NP	0.00	15.82	18.13	0.00
		07/28/97	NP	0.00	16.60	17.35	0.00
						SPH Recovered to Date:	**0.00**
B-10	34.74	03/24/95	15.08	0.00	15.08	19.66	NA
		04/24/95	15.41	0.00	15.41	19.33	NA
		05/22/95	15.68	0.00	15.68	19.06	NA
		06/19/95	15.96	0.00	15.96	18.78	NA
		07/24/95	16.26	0.00	16.26	18.48	NA
		08/28/95	16.26	0.32	16.58	18.43	NA
		09/25/95	16.84	0.00	16.84	17.90	NA
		10/23/95	16.70	0.00	16.70	18.04	NA
		11/27/95	15.99	0.00	15.99	18.75	NA
		12/29/95	15.01	0.00	15.01	19.73	NA
		01/22/96	14.67	0.00	14.67	20.07	NA
		02/26/96	12.18	0.00	12.18	22.56	NA
		03/25/96	13.82	0.00	13.82	20.92	NA
		04/22/96	14.66	0.00	14.66	20.08	NA
		05/28/96	14.59	0.00	14.59	20.15	NA
		06/24/96	15.03	0.00	15.03	19.71	NA
		07/22/96	15.64	0.00	15.64	19.10	NA
		08/26/96	16.12	0.00	16.12	18.62	NA
		09/23/96	16.21	0.00	16.21	18.53	NA
		10/28/96	16.18	0.00	16.18	18.56	NA
		11/25/96	15.35	0.00	15.35	19.39	NA
		01/29/97	NP	0.00	13.80	20.94	0.00
		04/21/97	NP	0.00	14.85	19.89	0.00
		07/28/97	NP	0.00	15.43	19.31	0.00
						SPH Recovered to Date:	**0.00**
B-11	34.95	03/24/95	NA	0.00	15.22	19.73	NA
		07/24/95	NA	0.00	16.08	18.87	NA
		10/23/95	NA	0.00	16.64	18.31	NA
		01/22/96	NA	0.00	15.73	19.22	NA
		04/22/96	NA	0.00	14.44	20.51	NA
		05/28/96	NA	0.00	14.46	20.49	NA
		07/22/96	NA	0.00	15.40	19.55	NA
		08/26/96	NA	0.00	15.91	19.04	NA
		09/23/96	NA	0.00	16.08	18.87	NA
		10/28/96	NA	0.00	16.14	18.81	NA
		11/25/96	NA	0.00	15.53	19.42	NA
		01/29/97	NP	0.00	15.65	19.30	0.00
		04/21/97	NP	0.00	14.67	20.28	0.00
		07/28/97	NP	0.00	15.33	19.62	0.00

COPPOR00005627

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
						SPH Recovered to Date:	**0.00**
B-12	35.11	08/26/96	NA	0.00	16.37	18.74	NA
		09/23/96	NA	0.00	16.53	18.58	NA
		11/25/96	NA	0.00	16.07	19.04	NA
		01/29/97	NP	0.00	14.18	20.93	0.00
		04/21/97	NP	0.00	15.20	19.91	0.00
						SPH Recovered to Date:	**0.00**
B-13	34.76	08/26/96	NA	0.00	16.36	18.40	NA
		09/23/96	NA	0.00	16.51	18.25	NA
		10/28/96	NA	0.00	16.59	18.17	NA
		11/25/96	NA	0.00	16.14	18.62	NA
		01/29/97	NP	0.00	14.35	20.41	0.00
		04/21/97	NP	0.00	15.23	19.53	0.00
		07/28/97	NP	0.00	15.85	18.91	0.00
						SPH Recovered to Date:	**0.00**
B-14	36.59	04/24/95	NA	0.00	17.59	19.00	NA
		07/24/95	NA	0.00	18.35	18.24	NA
		10/23/95	NA	0.00	18.84	17.75	NA
		01/22/96	NA	0.00	17.21	19.38	NA
		04/22/96	NA	0.00	15.80	20.79	NA
		05/28/96	NA	0.00	16.82	19.77	NA
		07/22/96	NA	0.00	17.70	18.89	NA
		08/26/96	NA	0.00	18.15	18.44	NA
		09/23/96	NA	0.00	18.31	18.28	NA
		10/28/96	NA	0.00	18.40	18.19	NA
		11/25/96	NA	0.00	17.94	18.65	NA
		01/29/97	NP	0.00	16.05	20.54	0.00
		04/21/97	NP	0.00	17.03	19.56	0.00
		07/28/97	NP	0.00	17.63	18.96	0.00
						SPH Recovered to Date:	**0.00**
B-15	35.55	08/26/96	NA	0.00	17.32	18.23	NA
		09/23/96	NA	0.00	17.47	18.08	NA
		10/28/96	NA	0.00	17.56	17.99	NA
		11/25/96	NA	0.00	17.08	18.47	NA
		01/29/97	NP	0.00	15.26	20.29	0.00
		04/21/97	NP	0.00	16.20	19.35	0.00
		07/28/97	NP	0.00	16.77	18.78	0.00
						SPH Recovered to Date:	**0.00**
B-19	34.71	03/24/95	NA	0.00	16.01	18.70	NA
		04/24/95	NA	0.00	16.21	18.50	NA
		05/22/95	NA	0.00	16.45	18.26	NA
		06/19/95	NA	0.00	16.70	18.01	NA
		07/24/95	NA	0.00	17.09	17.62	NA
		08/28/95	NA	0.00	17.37	17.34	NA
		09/25/95	NA	0.00	17.56	17.15	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-19	34.71	10/23/95	NA	0.00	17.45	17.26	NA
		11/27/95	NA	0.00	16.86	17.85	NA
		12/29/95	NA	0.00	15.75	18.96	NA
		01/22/96	NA	0.00	15.54	19.17	NA
		02/26/96	NA	0.00	12.95	21.76	NA
		03/25/96	NA	0.00	14.80	19.91	NA
		04/22/96	NA	0.00	15.39	19.32	NA
		05/28/96	NA	0.00	15.31	19.40	NA
		06/24/96	NA	0.00	15.79	18.92	NA
		07/22/96	NA	0.00	16.35	18.36	NA
		08/26/96	NA	0.00	16.84	17.87	NA
		09/23/96	NA	0.00	16.97	17.74	NA
		10/28/96	NA	0.00	17.03	17.68	NA
		11/25/96	NA	0.00	16.43	18.28	NA
		01/29/97	NP	0.00	14.81	19.90	0.00
		04/21/97	NP	0.00	15.67	19.04	0.00
		07/28/97	NP	0.00	16.18	18.53	0.00
						SPH Recovered to Date:	**0.00**
B-20	33.40	03/24/95	16.55	0.00	16.55	16.85	NA
		04/24/95	16.93	0.00	16.93	16.47	NA
		05/22/95	16.96	0.00	16.96	16.44	NA
		06/19/95	17.20	0.00	17.20	16.20	NA
		07/24/95	17.95	0.19	18.14	15.42	NA
		08/28/95	18.30	0.37	18.67	15.04	NA
		09/25/95	18.26	0.01	18.27	15.14	NA
		10/23/95	18.04	0.00	18.04	15.36	NA
		11/27/95	17.11	0.01	17.12	16.29	NA
		12/29/95	16.17	0.01	16.18	17.23	NA
		01/22/96	15.20	0.00	15.20	18.20	NA
		02/26/96	13.55	0.01	13.56	19.85	NA
		03/25/96	15.99	0.00	15.99	17.41	NA
		04/22/96	15.88	0.00	15.88	17.52	NA
		05/28/96	15.59	0.00	15.59	17.81	NA
		06/24/96	16.29	0.00	16.29	17.11	NA
		07/22/96	17.13	0.00	17.13	16.27	NA
		08/26/96	17.62	0.00	17.62	15.78	NA
		09/23/96	17.59	1.05	18.64	15.65	NA
		10/28/96	17.50	0.43	17.93	15.84	NA
		11/25/96	16.57	0.05	16.62	16.82	NA
		01/29/97	NP	0.00	15.93	17.47	0.00
		04/21/97	NP	0.00	16.19	17.21	0.00
		07/28/97	16.89	0.02	16.91	16.51	1.00
						SPH Recovered to Date:	**1.00**
B-21	34.79	03/24/95	NA	0.00	16.23	18.56	NA
		04/24/95	NA	0.00	16.42	18.37	NA
		05/22/95	NA	0.00	16.63	18.16	NA
		06/19/95	NA	0.00	16.83	17.96	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-21	34.79	07/24/95	NA	0.00	17.18	17.61	NA
		08/28/95	NA	0.00	17.43	17.36	NA
		09/25/95	NA	0.00	17.58	17.21	NA
		10/23/95	NA	0.00	17.53	17.26	NA
		11/27/95	NA	0.00	17.09	17.70	NA
		12/29/95	NA	0.00	16.07	18.72	NA
		01/22/96	NA	0.00	15.91	18.88	NA
		02/26/96	NA	0.00	13.30	21.49	NA
		03/25/96	NA	0.00	15.08	19.71	NA
		04/22/96	NA	0.00	15.77	19.02	NA
		05/28/96	NA	0.00	15.61	19.18	NA
		06/24/96	NA	0.00	16.01	18.78	NA
		07/22/96	NA	0.00	16.53	18.26	NA
		08/26/96	NA	0.00	16.95	17.84	NA
		09/23/96	NA	0.00	17.11	17.68	NA
		10/28/96	NA	0.00	17.20	17.59	NA
		11/25/96	NA	0.00	16.71	18.08	NA
		01/29/97	NP	0.00	15.23	19.56	0.00
		04/21/97	NP	0.00	15.99	18.80	0.00
		07/28/97	NP	0.00	16.45	18.34	0.00
						SPH Recovered to Date:	**0.00**
B-24	34.70	03/24/95	15.87	0.01	15.88	18.83	NA
		04/24/95	15.96	0.03	15.99	18.74	NA
		05/22/95	16.17	0.01	16.18	18.53	NA
		06/19/95	16.39	0.02	16.41	18.31	NA
		07/24/95	16.56	0.04	16.60	18.13	0.01
		08/28/95	16.81	0.00	16.81	17.89	NA
		09/25/95	17.02	0.00	17.02	17.68	0.03
		10/23/95	17.05	0.00	17.05	17.65	NA
		11/27/95	16.75	0.00	16.75	17.95	NA
		12/29/95	15.90	0.00	15.90	18.80	NA
		01/22/96	15.71	0.00	15.71	18.99	NA
		02/26/96	13.98	0.00	13.98	20.72	NA
		03/25/96	14.62	0.00	14.62	20.08	NA
		04/22/96	15.28	0.00	15.28	19.42	NA
		05/28/96	15.25	0.00	15.25	19.45	NA
		06/24/96	15.57	0.00	15.57	19.13	NA
		07/22/96	15.95	0.00	15.95	18.75	NA
		08/26/96	16.35	0.00	16.35	18.35	NA
		09/23/96	16.51	0.01	16.52	18.19	NA
		10/28/96	16.54	0.00	16.54	18.16	NA
		01/29/97	NM	0.00	NM	0.00	0.00
		04/21/97	NP	0.00	15.29	19.41	0.00
		07/28/97	NP	0.00	16.00	18.70	0.00
						SPH Recovered to Date:	**0.04**
B-26	37.04	03/12/95	NP	0.00	16.56	20.48	0.00
	35.30	04/24/95	NA	0.00	15.81	19.49	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-26	35.30	07/24/95	NA	0.00	16.69	18.61	NA
		10/23/95	NA	0.00	17.16	18.14	NA
		01/22/96	NA	0.00	15.23	20.07	NA
		04/22/96	NA	0.00	14.85	20.45	NA
		05/28/96	NA	0.00	14.95	20.35	NA
		07/22/96	NA	0.00	16.03	19.27	NA
		08/26/96	16.52	0.00	16.52	18.78	NA
		09/23/96	16.63	0.00	16.63	18.67	NA
		10/28/96	16.68	0.00	16.68	18.62	NA
		11/25/96	15.94	0.00	15.94	19.36	NA
		01/29/97	NP	0.00	14.36	20.94	NA
		04/21/97	15.28	0.01	15.29	20.02	0.40
		07/24/97	NP	0.00	15.80	19.50	0.00
						SPH Recovered to Date:	**0.40**
B-28	35.25	04/24/95	NA	0.00	15.02	20.23	NA
		07/24/95	NA	0.00	16.14	19.11	NA
		10/23/95	NA	0.00	16.40	18.85	NA
		01/22/96	NA	0.00	15.25	20.00	NA
		04/22/96	NA	0.00	14.62	20.63	NA
		05/28/96	NA	0.00	14.68	20.57	NA
		07/22/96	NA	0.00	15.51	19.74	NA
		10/28/96	NA	0.00	15.98	19.27	NA
		01/29/97	NP	0.00	14.36	20.89	NA
		04/21/97	14.99	0.01	15.00	20.26	0.30
		07/24/97	NP	0.00	15.25	20.00	0.00
						SPH Recovered to Date:	**0.30**
B-29	37.70	01/29/97	NL	0.00	NL	0.00	0.00
		04/21/97	NP	0.00	14.61	23.09	0.00
		07/28/97	NP	0.00	15.40	22.30	0.00
						SPH Recovered to Date:	**0.00**
B-30	35.35	04/24/95	NA	0.00	15.60	19.75	NA
		06/19/95	NP	0.00	15.60	19.75	0.00
		07/24/95	NA	0.00	15.96	19.39	NA
		10/23/95	NA	0.00	16.51	18.84	NA
		01/22/96	NA	0.00	14.51	20.84	NA
		04/22/96	NA	0.00	14.12	21.23	NA
		05/28/96	NA	0.00	14.68	20.67	NA
		07/22/96	NA	0.00	15.22	20.13	NA
		10/28/96	NA	0.00	15.94	19.41	NA
		01/29/97	NP	0.00	13.48	21.87	0.00
		04/21/97	NP	0.00	14.50	20.85	0.00
		07/28/97	NP	0.00	15.07	20.28	0.00
						SPH Recovered to Date:	**0.00**
B-31	33.86	03/24/95	NA	0.00	14.49	19.37	NA
		04/24/95	NA	0.00	15.30	18.56	NA
		05/22/95	NA	0.00	15.98	17.88	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-31	33.86	06/19/95	NA	0.00	16.74	17.12	NA
		07/24/95	NA	0.00	16.89	16.97	NA
		08/28/95	NA	0.00	17.15	16.71	NA
		09/25/95	NA	0.00	16.97	16.89	NA
		10/23/95	16.52	0.08	16.44	17.49	NA
		11/27/95	16.63	3.21	13.42	23.17	NA
		12/29/95	14.36	0.00	14.36	19.50	NA
		01/22/96	NA	0.00	15.73	18.13	NA
		02/26/96	NA	0.00	12.56	21.30	NA
		03/25/96	NA	0.00	16.06	17.80	NA
		04/22/96	NA	0.00	12.56	21.30	NA
		05/28/96	NA	0.00	14.61	19.25	NA
		06/24/96	NA	0.00	14.04	19.82	NA
		07/22/96	NA	0.00	15.84	18.02	NA
		08/26/96	NA	0.00	16.71	17.15	NA
		09/23/96	16.52	0.05	16.47	17.43	NA
		10/28/96	16.63	0.73	15.90	18.58	NA
		11/25/96	NA	0.00	14.47	19.39	NA
		01/29/97	NP	0.00	14.75	19.11	0.00
		04/21/97	14.35	0.02	14.37	19.51	0.20
		07/24/97	NP	0.00	15.89	17.97	0.00
						SPH Recovered to Date:	**0.20**
B-32	34.23	03/24/95	16.03	0.00	16.03	18.20	NA
		04/24/95	16.31	0.26	16.57	17.88	NA
		05/22/95	16.76	0.00	16.76	17.47	NA
		06/19/95	17.10	0.00	17.10	17.13	NA
		07/24/95	17.59	0.00	17.59	16.64	NA
		08/28/95	17.94	0.00	17.94	16.29	NA
		09/25/95	18.11	0.00	18.11	16.12	NA
		10/23/95	17.98	0.00	17.98	16.25	NA
		11/27/95	17.25	0.00	17.25	16.98	NA
		12/29/95	16.09	0.00	16.09	18.14	NA
		01/22/96	NA	0.00	15.73	18.50	NA
		02/26/96	NA	0.00	12.72	21.51	NA
		03/25/96	NA	0.00	15.45	18.78	NA
		04/22/96	NA	0.00	15.75	18.48	NA
		05/28/96	NA	0.00	15.37	18.86	NA
		06/24/96	NA	0.00	16.01	18.22	NA
		07/22/96	NA	0.00	16.86	17.37	NA
		08/26/96	NA	0.00	17.37	16.86	NA
		09/23/96	NA	0.00	17.61	16.62	NA
		10/28/96	NA	0.00	17.57	16.66	NA
		11/25/96	NA	0.00	16.61	17.62	NA
		01/29/97	NP	0.00	15.46	18.77	NA
		04/21/97	NP	0.00	15.89	18.34	NA
		07/28/97	NP	0.00	16.66	17.57	0.00
						SPH Recovered to Date:	**0.00**

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-33	35.90	01/29/97	NP	0.00	14.86	21.04	0.00
		04/21/97	NP	0.00	15.70	20.20	0.00
		07/28/97	NP	0.00	16.24	19.66	0.00
						SPH Recovered to Date:	**0.00**
CR-1	22.08	01/29/96	NP	0.00	1.63	20.45	0.00
		01/29/97	NP	0.00	1.63	20.45	0.00
		04/21/97	NP	0.00	2.32	19.76	0.00
						SPH Recovered to Date:	**0.00**
CR-3	34.32	04/24/95	NA	0.00	14.09	20.23	NA
		07/24/95	NA	0.00	15.25	19.07	NA
		10/23/95	NA	0.00	15.81	18.51	NA
		01/22/96	NA	0.00	10.42	23.90	NA
		01/29/96	NP	0.00	12.52	21.80	0.00
		04/22/96	NA	0.00	12.68	21.64	NA
		05/28/96	NA	0.00	13.61	20.71	NA
		07/22/96	NA	0.00	14.62	19.70	NA
		08/26/96	NA	0.00	15.13	19.19	NA
		09/23/96	NA	0.00	15.28	19.04	NA
		10/28/96	NA	0.00	14.79	19.53	NA
		11/25/96	NA	0.00	12.45	21.87	NA
		01/29/97	NP	0.00	12.52	21.80	0.00
		04/21/97	13.39	0.01	13.40	20.93	0.00
		07/28/97	NP	0.00	14.51	19.81	0.00
						SPH Recovered to Date:	**0.00**
CR-4	34.93	04/24/95	NA	0.00	5.13	29.80	NA
		07/24/95	NA	0.00	6.90	28.03	NA
		01/22/96	NA	0.00	4.70	30.23	NA
		05/28/96	NA	0.00	4.99	29.94	NA
		07/22/96	NA	0.00	6.48	28.45	NA
		10/28/96	NA	0.00	6.35	28.58	NA
	37.14	01/29/97	NP	0.00	4.99	32.15	0.00
		04/21/97	NP	0.00	5.09	29.84	0.00
		05/03/97	NP	0.00	6.78	30.36	0.00
		07/28/97	NP	0.00	6.31	30.83	0.00
						SPH Recovered to Date:	**0.00**
CR-6	35.61	03/24/95	12.07	0.01	12.08	23.54	NA
		04/24/95	12.03	0.01	12.04	23.58	NA
		05/22/95	12.51	0.01	12.52	23.10	NA
		06/19/95	10.16	0.00	10.16	25.45	NA
		07/24/95	14.86	0.01	14.87	20.75	0.02
		08/28/95	14.51	0.01	14.52	21.10	0.02
		09/25/95	15.46	0.01	15.47	20.15	0.05
		10/23/95	15.50	0.00	15.50	20.11	NA
		12/29/95	8.81	0.00	8.81	26.80	NA
		01/22/96	12.02	0.01	12.03	23.59	0.04
		02/26/96	10.71	0.00	10.71	24.90	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-6	35.61	03/25/96	11.28	0.00	11.28	24.33	NA
		05/28/96	11.49	0.00	11.49	24.12	NA
		06/24/96	11.35	0.00	11.35	24.26	NA
		07/22/96	12.57	0.01	12.58	23.04	0.01
		08/26/96	13.03	0.02	13.05	22.58	0.02
		09/23/96	13.05	0.03	13.08	22.56	NA
		10/28/96	12.85	0.04	12.89	22.75	NA
		11/25/96	12.55	0.02	12.57	23.06	NA
		01/29/97	NP	0.00	11.15	24.46	0.00
		04/21/97	NP	0.00	11.86	23.75	0.00
		07/28/97	12.74	0.01	12.75	22.87	1.00
						SPH Recovered to Date:	**1.17**
CR-7	35.57	03/24/95	10.01	0.48	10.49	25.49	NA
		04/24/95	10.19	0.57	10.76	25.29	NA
		05/22/95	10.76	0.75	11.51	24.70	NA
		06/19/95	11.25	0.15	11.40	24.30	NA
		07/24/95	11.80	0.01	11.81	23.77	0.13
		08/28/95	12.20	0.00	12.20	23.37	0.03
		09/25/95	12.48	0.00	12.48	23.09	0.03
		10/23/95	11.98	0.00	11.98	23.59	NA
		11/27/95	10.73	0.00	10.73	24.84	NA
		12/29/95	10.23	0.05	10.28	25.33	NA
		01/22/96	9.91	0.21	10.12	25.63	0.12
		02/26/96	8.50	0.50	9.00	27.00	0.15
		03/25/96	9.81	0.02	9.83	25.76	0.01
		04/22/96	10.21	0.12	10.33	25.34	NA
		05/28/96	9.82	0.31	10.13	25.70	0.38
		06/24/96	10.78	0.20	10.98	24.76	0.69
		07/22/96	11.35	0.22	11.57	24.19	0.45
		08/26/96	11.84	0.12	11.96	23.71	0.13
		09/23/96	11.94	0.03	11.97	23.63	NA
		10/28/96	11.51	0.02	11.53	24.06	NA
		11/25/96	10.80	0.00	10.80	24.77	NA
		01/29/97	NP	0.00	11.11	24.46	0.00
		04/21/97	10.60	0.11	10.71	24.95	9.60
		07/24/97	11.52	0.10	11.62	24.03	2.75
						SPH Recovered to Date:	**14.47**
CR-8	33.14	04/24/95	NA	0.00	6.41	26.73	NA
		07/24/95	NA	0.00	8.22	24.92	NA
		10/23/95	NA	0.00	8.08	25.06	NA
		01/22/96	NA	0.00	6.21	26.93	NA
		04/22/96	NA	0.00	6.47	26.67	NA
		05/28/96	NA	0.00	6.31	26.83	NA
		07/22/96	NA	0.00	7.08	26.06	NA
		10/28/96	NA	0.00	7.71	25.43	NA
		01/29/97	NP	0.00	5.94	27.20	0.00
		04/21/97	NP	0.00	6.41	26.73	0.00

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-8	33.14	07/28/97	NP	0.00	7.30	25.84	0.00
						SPH Recovered to Date:	**0.00**
CR-9	35.72	01/29/97	NP	0.00	4.56	31.16	0.00
		04/21/97	3.38	0.01	3.39	32.34	0.20
		07/24/97	NP	0.00	5.71	30.01	0.00
						SPH Recovered to Date:	**0.20**
CR-10	35.57	03/24/95	5.34	0.03	5.37	30.23	NA
		04/24/95	4.27	0.08	4.35	31.29	NA
		05/22/95	5.31	0.09	5.40	30.25	NA
		06/19/95	6.30	0.08	6.38	29.26	NA
		07/24/95	9.22	0.00	9.22	26.35	NA
		08/28/95	10.15	0.00	10.15	25.42	0.40
		09/25/95	10.82	0.00	10.82	24.75	NA
		10/23/95	9.44	0.00	9.44	26.13	NA
		12/29/95	7.54	0.00	7.54	28.03	NA
		01/22/96	6.96	0.05	7.01	28.60	NA
		02/26/96	6.76	0.17	6.93	28.78	0.13
		03/25/96	7.62	0.00	7.62	27.95	5.16
		04/22/96	7.69	0.00	7.69	27.88	NA
		07/22/96	1.28	0.05	1.23	34.38	NA
		11/25/96	2.35	0.00	2.35	33.22	NA
		01/29/97	NP	0.00	3.76	31.81	0.00
		04/21/97	4.26	0.16	4.42	31.29	6.40
		07/24/97	5.94	0.38	6.32	29.57	6.00
						SPH Recovered to Date:	**18.09**
CR-11	34.43	03/24/95	1.19	0.00	1.19	33.24	NA
		04/24/95	1.34	0.00	1.34	33.09	NA
		05/22/95	2.49	0.00	2.49	31.94	NA
		06/19/95	2.94	0.00	2.94	31.49	NA
		07/24/95	3.68	0.00	3.68	30.75	NA
		08/28/95	4.18	0.00	4.18	30.25	NA
		09/25/95	4.83	0.00	4.83	29.60	NA
		10/23/95	4.59	0.00	4.59	29.84	NA
		11/27/95	3.61	0.00	3.61	30.82	NA
		12/29/95	1.83	0.00	1.83	32.60	NA
		01/22/96	1.78	0.00	1.78	32.65	NA
		02/26/96	1.13	0.00	1.13	33.30	NA
		03/25/96	1.27	0.00	1.27	33.16	NA
		04/22/96	1.40	0.00	1.40	33.03	NA
		05/28/96	1.45	0.00	1.45	32.98	NA
		06/24/96	2.39	0.00	2.39	32.04	NA
		07/22/96	3.35	0.00	3.35	31.08	NA
		08/26/96	4.10	0.00	4.10	30.33	NA
		09/23/96	4.35	0.00	4.35	30.08	NA
		10/28/96	3.12	0.02	3.14	31.31	NA
		11/25/96	2.35	0.00	2.35	32.08	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-11	34.43	01/29/97	NP	0.00	1.55	32.88	0.00
		04/21/97	NP	0.00	1.34	33.09	0.00
		07/24/97	NP	0.00	3.03	31.40	0.00
						SPH Recovered to Date:	**0.00**
						Chevron total SPH Recovered to Date:	**36.87**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX				
MW-1	35.43	04/24/95	NA	0.00	3.55	31.88	NA
		07/24/95	NA	0.00	6.26	29.17	NA
		10/23/95	NA	0.00	5.85	29.58	NA
		01/22/96	NA	0.00	2.92	32.51	NA
		04/22/96	NA	0.00	4.01	31.42	NA
		07/22/96	NA	0.00	6.92	28.51	NA
		10/28/96	NA	0.00	5.35	30.08	NA
		01/30/97	NP	0.00	3.92	31.51	0.00
		04/21/97	NP	0.00	3.63	31.80	0.00
		07/30/97	NP	0.00	6.69	28.74	0.00
						SPH Recovered to Date:	**0.00**
MW-2	35.77	01/30/97	NP	0.00	4.88	30.89	0.00
		04/21/97	NP	0.00	5.41	30.36	0.00
		07/30/97	NP	0.00	7.27	28.50	0.00
						SPH Recovered to Date:	**0.00**
MW-3	36.02	03/06/95	NA	0.00	6.79	29.23	NA
		03/27/95	NA	0.00	6.65	29.37	NA
		04/24/95	NA	0.00	6.98	29.04	NA
		07/24/95	NA	0.00	8.63	27.39	NA
		10/23/95	NA	0.00	9.62	26.40	NA
		01/22/96	8.96	0.00	8.96	27.06	NA
		04/22/96	NA	0.00	6.34	29.68	NA
		07/22/96	NA	0.00	8.47	27.55	NA
		10/28/96	NA	0.00	8.70	27.32	NA
		01/30/97	NP	0.00	6.40	29.62	0.00
		04/21/97	NP	0.00	6.93	29.09	0.00
		07/30/97	NP	0.00	8.54	27.48	0.00
						SPH Recovered to Date:	**0.00**
MW-4	36.39	04/24/95	NA	0.00	6.35	30.04	NA
		07/24/95	NA	0.00	8.17	28.22	NA
		10/23/95	NA	0.00	9.16	27.23	NA
		01/22/96	NA	0.00	5.20	31.19	NA
		04/22/96	NA	0.00	5.59	30.80	NA
		07/22/96	NA	0.00	7.97	28.42	NA
		10/28/96	NA	0.00	8.14	28.25	NA
		11/25/96	NA	0.00	6.10	30.29	NA
		01/30/97	NP	0.00	5.40	30.99	0.00
		04/21/97	NP	0.00	6.29	30.10	0.00
		07/30/97	NP	0.00	8.07	28.32	0.00
						SPH Recovered to Date:	**0.00**
MW-5	33.52	03/27/95	NP	0.00	3.55	29.97	0.00
		04/24/95	NA	0.00	5.29	28.23	NA
		07/24/95	NA	0.00	7.12	26.40	NA
		10/23/95	NA	0.00	8.56	24.96	NA
		01/22/96	NA	0.00	4.32	29.20	NA
		04/22/96	NA	0.00	4.73	28.79	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-5	33.52	07/22/96	NA	0.00	6.98	26.54	NA
		10/28/96	NA	0.00	7.60	25.92	NA
		12/23/96	NA	0.00	2.35	31.17	NA
		01/30/97	NP	0.00	5.01	28.51	0.00
		04/21/97	NP	0.00	5.07	28.45	0.00
		07/30/97	NP	0.00	7.05	26.47	0.00
						SPH Recovered to Date:	**0.00**
MW-6	33.34	03/06/95	3.34	0.20	3.54	29.97	NA
		03/27/95	3.05	0.68	3.73	30.19	NA
		04/24/95	3.29	0.89	4.18	29.92	NA
		05/22/95	3.80	0.03	3.83	29.54	1.50
		06/19/95	4.64	0.00	4.64	28.70	1.34
		07/24/95	5.15	0.00	5.15	28.19	NA
		08/28/95	5.90	0.00	5.90	27.44	NA
		09/25/95	6.50	0.00	6.50	26.84	NA
		10/23/95	6.22	0.00	6.22	27.12	NA
		11/27/95	4.37	0.00	4.37	28.97	NA
		12/29/95	3.76	0.19	3.95	29.55	NA
		01/22/96	2.50	0.35	2.85	30.79	NA
		02/26/96	2.07	0.01	2.08	31.27	NA
		03/25/96	3.34	0.00	3.34	30.00	0.18
		04/22/96	3.18	0.00	3.18	30.16	NA
		05/28/96	3.23	0.00	3.23	30.11	0.06
		06/24/96	4.35	0.00	4.35	28.99	NA
		07/22/96	5.08	0.00	5.08	28.26	NA
		08/26/96	5.89	0.00	5.89	27.45	NA
		09/23/96	5.54	0.00	5.54	27.80	NA
		10/28/96	5.19	0.00	5.19	28.15	NA
		11/25/96	3.28	0.00	3.28	30.06	NA
		12/23/96	2.98	0.43	3.41	30.30	NA
		01/30/97	NP	0.00	2.77	30.57	0.00
		04/21/97	NP	0.00	3.25	30.09	0.00
		07/30/97	5.10	0.13	5.23	28.22	0.25
						SPH Recovered to Date:	**3.33**
MW-7	34.12	03/06/95	7.96	0.04	8.00	26.15	NA
		03/27/95	7.88	0.06	7.94	26.23	NA
		04/24/95	8.18	0.00	8.18	25.94	NA
		05/22/95	8.51	0.34	8.85	25.56	NA
		06/19/95	8.93	0.39	9.32	25.13	NA
		07/24/95	9.35	0.15	9.50	24.75	0.06
		08/28/95	9.79	0.21	10.00	24.30	NA
		09/25/95	10.13	0.38	10.51	23.93	NA
		10/23/95	7.04	0.43	7.47	27.02	NA
		11/27/95	9.00	0.00	9.00	25.12	NA
		12/29/95	8.13	0.03	8.16	25.99	0.37
		01/22/96	7.44	0.00	7.44	26.68	0.08
		02/26/96	6.20	0.00	6.20	27.92	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-7	34.12	03/25/96	7.50	0.20	7.70	26.59	NA
		04/22/96	7.84	0.11	7.95	26.26	0.12
		05/28/96	7.70	0.10	7.80	26.41	0.12
		06/24/96	8.36	0.12	8.48	25.74	0.37
		07/22/96	8.98	0.30	9.28	25.09	NA
		08/26/96	9.52	0.30	9.82	24.56	NA
		09/23/96	9.55	0.38	9.93	24.51	NA
		10/28/96	9.30	0.48	9.78	24.75	NA
		11/25/96	8.23	0.68	8.91	25.79	NA
		12/23/96	7.52	1.98	9.50	26.30	NA
		01/30/97	7.13	3.11	10.24	26.52	70.00
		04/21/97	7.91	1.81	9.72	25.94	57.00
		07/24/97	8.91	1.05	9.96	25.05	22.00
						SPH Recovered to Date:	**150.12**
MW-8	33.95	04/24/95	NA	0.00	7.27	26.68	NA
		07/24/95	NA	0.00	8.53	25.42	NA
		10/23/95	NA	0.00	9.45	24.50	NA
		01/22/96	NA	0.00	6.45	27.50	NA
		04/22/96	NA	0.00	6.99	26.96	NA
		07/22/96	NA	0.00	8.30	25.65	NA
		10/28/96	NA	0.00	8.76	25.19	NA
		01/30/97	NP	0.00	6.38	27.57	0.00
		04/21/97	NP	0.00	7.07	26.88	0.00
		07/30/97	NP	0.00	8.29	25.66	0.00
						SPH Recovered to Date:	**0.00**
MW-9	36.53	04/24/95	NA	0.00	9.67	26.86	NA
		07/24/95	NA	0.00	10.85	25.68	NA
		10/23/95	NA	0.00	11.86	24.67	NA
		01/22/96	NA	0.00	9.57	26.96	NA
		04/22/96	NA	0.00	9.47	27.06	NA
		07/22/96	NA	0.00	10.34	26.19	NA
		10/28/96	NA	0.00	11.32	25.21	NA
		01/30/97	NP	0.00	894.00	0.00	0.00
		04/21/97	9.51	0.01	9.52	27.02	0.10
		07/24/97	NP	0.00	10.28	26.25	0.00
						SPH Recovered to Date:	**0.10**
MW-10	35.82	04/24/95	NA	0.00	8.54	27.28	NA
		07/24/95	NA	0.00	10.25	25.57	NA
		10/23/95	NA	0.00	11.20	24.62	NA
		01/22/96	NA	0.00	7.31	28.51	NA
		04/22/96	NA	0.00	8.09	27.73	NA
		07/22/96	NA	0.00	9.87	25.95	NA
		10/28/96	NA	0.00	10.22	25.60	NA
		01/30/97	NP	0.00	7.40	28.42	0.00
		04/21/97	NP	0.00	8.40	27.42	0.00
		07/30/97	NP	0.00	9.98	25.84	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
						SPH Recovered to Date:	**0.00**
MW-11	36.47	03/06/95	NA	0.00	5.09	31.38	NA
		03/27/95	5.25	0.00	5.25	31.22	NA
		04/24/95	5.36	0.00	5.36	31.11	NA
		05/22/95	6.11	0.00	6.11	30.36	NA
		06/19/95	6.52	0.00	6.52	29.95	NA
		07/24/95	7.10	0.00	7.10	29.37	NA
		08/28/95	8.00	0.00	8.00	28.47	NA
		09/25/95	8.12	0.00	8.12	28.35	NA
		10/23/95	7.39	0.00	7.39	29.08	NA
		11/27/95	5.25	0.00	5.25	31.22	NA
		12/29/95	5.65	0.00	5.65	30.82	NA
		01/22/96	4.50	0.00	4.50	31.97	NA
		01/30/96	NP	0.00	5.20	31.27	0.00
		02/26/96	3.69	0.00	3.69	32.78	NA
		03/25/96	5.50	0.00	5.50	30.97	NA
		04/22/96	5.15	0.00	5.15	31.32	NA
		05/28/96	5.29	0.00	5.29	31.18	NA
		06/24/96	6.27	0.00	6.27	30.20	NA
		07/22/96	7.04	0.00	7.04	29.43	NA
		08/26/96	7.86	0.00	7.86	28.61	NA
		09/23/96	7.20	0.00	7.20	29.27	NA
		10/28/96	6.33	0.00	6.33	30.14	NA
		11/25/96	4.94	0.00	4.94	31.53	NA
		12/23/96	4.68	3.00	7.68	31.34	NA
		01/30/97	NP	0.00	5.20	31.27	0.00
		04/21/97	NP	0.00	5.41	31.06	0.00
		07/30/97	NP	0.00	7.05	29.42	0.00
						SPH Recovered to Date:	**0.00**
MW-12	35.95	04/24/95	NA	0.00	5.22	30.73	NA
		07/24/95	NA	0.00	7.30	28.65	NA
		10/23/95	NA	0.00	8.33	27.62	NA
		01/22/96	NA	0.00	3.83	32.12	NA
		04/22/96	NA	0.00	4.34	31.61	NA
		07/22/96	NA	0.00	7.15	28.80	NA
		10/28/96	NA	0.00	7.37	28.58	NA
		01/30/97	NP	0.00	4.26	31.69	0.00
		04/21/97	NP	0.00	5.05	30.90	0.00
		07/30/97	NP	0.00	7.27	28.68	0.00
						SPH Recovered to Date:	**0.00**
MW-13	37.89	04/24/95	NA	0.00	4.41	33.48	NA
		07/24/95	NA	0.00	6.29	31.60	NA
		10/23/95	NA	0.00	6.67	31.22	NA
		01/22/96	NA	0.00	3.65	34.24	NA
		04/22/96	NA	0.00	4.18	33.71	NA
		07/22/96	NA	0.00	6.28	31.61	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-13	37.89	10/28/96	NA	0.00	5.61	32.28	NA
		01/30/97	NP	0.00	4.22	33.67	0.00
		04/21/97	NP	0.00	4.28	33.61	0.00
		07/30/97	NP	0.00	6.27	31.62	0.00
						SPH Recovered to Date:	**0.00**
MW-14	36.28	04/24/95	NA	0.00	3.33	32.95	NA
		07/24/95	NA	0.00	5.62	30.66	NA
		10/23/95	NA	0.00	5.96	30.32	NA
		01/22/96	NA	0.00	2.71	33.57	NA
		04/22/96	NA	0.00	3.25	33.03	NA
		07/22/96	NA	0.00	5.68	30.60	NA
		10/28/96	NA	0.00	5.30	30.98	NA
		01/30/97	NP	0.00	3.28	33.00	0.00
		04/21/97	NP	0.00	3.29	32.99	0.00
		07/30/97	NP	0.00	5.64	30.64	0.00
						SPH Recovered to Date:	**0.00**
MW-15	37.50	01/30/97	NP	0.00	3.28	34.22	0.00
		04/21/97	NP	0.00	4.85	32.65	0.00
		07/30/97	NP	0.00	7.92	29.58	0.00
						SPH Recovered to Date:	**0.00**
MW-16	34.93	07/24/95	NA	0.00	5.78	29.15	NA
		10/23/95	NA	0.00	6.73	28.20	NA
		01/22/96	NA	0.00	2.44	32.49	NA
		04/22/96	NA	0.00	3.46	31.47	NA
		07/22/96	NA	0.00	5.63	29.30	NA
		10/28/96	NA	0.00	5.90	29.03	NA
		01/30/97	NP	0.00	3.15	31.78	0.00
		04/21/97	NP	0.00	3.44	31.49	0.00
		07/30/97	NP	0.00	5.65	29.28	0.00
						SPH Recovered to Date:	**0.00**
MW-17	36.05	01/30/97	NP	0.00	4.27	31.78	0.00
		04/21/97	NP	0.00	4.39	31.66	0.00
		07/30/97	NP	0.00	5.28	30.77	0.00
						SPH Recovered to Date:	**0.00**
MW-18	33.76	04/24/95	NA	0.00	1.66	32.10	NA
		07/24/95	NA	0.00	3.02	30.74	NA
		10/23/95	NA	0.00	3.43	30.33	NA
		01/22/96	NA	0.00	1.08	32.68	NA
		04/22/96	NA	0.00	0.89	32.87	NA
		07/22/96	NA	0.00	2.83	30.93	NA
		10/28/96	NA	0.00	2.48	31.28	NA
		01/30/97	NP	0.00	1.24	32.52	0.00
		04/21/97	NP	0.00	1.23	32.53	0.00
		07/30/97	NP	0.00	2.66	31.10	0.00
						SPH Recovered to Date:	**0.00**

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-19	33.39	03/06/95	2.77	0.49	3.26	30.55	NA
		03/27/95	2.57	0.51	3.08	30.74	NA
		04/24/95	2.79	0.54	3.33	30.52	NA
		05/22/95	3.19	0.51	3.70	30.12	NA
		06/19/95	3.87	0.61	4.48	29.43	NA
		07/24/95	4.41	0.01	4.42	28.98	0.31
		08/28/95	5.64	0.00	5.64	27.75	0.03
		09/25/95	6.80	0.00	6.80	26.59	NA
		10/23/95	5.48	0.00	5.48	27.91	NA
		11/27/95	3.79	0.00	3.79	29.60	NA
		12/29/95	3.23	0.00	3.23	30.16	NA
		01/22/96	2.18	0.00	2.18	31.21	NA
		02/26/96	1.57	0.00	1.57	31.82	NA
		03/25/96	2.56	0.00	2.56	30.83	NA
		04/22/96	1.77	0.00	1.77	31.62	NA
		05/28/96	2.11	0.00	2.11	31.28	NA
		06/24/96	2.93	0.00	2.93	30.46	NA
		07/22/96	3.61	0.00	3.61	29.78	NA
		08/26/96	4.31	0.00	4.31	29.08	NA
		09/23/96	3.65	0.00	3.65	29.74	NA
		10/28/96	1.95	0.00	1.95	31.44	NA
		11/25/96	1.63	0.00	1.63	31.76	NA
		12/23/96	1.86	0.00	1.86	31.53	NA
		01/30/97	NP	0.00	1.86	31.53	0.00
		04/21/97	NP	0.00	2.23	31.16	0.00
		07/30/97	NP	0.00	3.79	29.60	0.00
						SPH Recovered to Date:	**0.34**
MW-20	34.76	04/24/95	NA	0.00	9.55	25.21	NA
		07/24/95	NA	0.00	10.73	24.03	NA
		10/23/95	NA	0.00	11.35	23.41	NA
		01/22/96	NA	0.00	8.50	26.26	NA
		04/22/96	NA	0.00	9.53	25.23	NA
		07/22/96	NA	0.00	10.41	24.35	NA
		09/23/96	11.08	0.00	11.08	23.68	NA
		10/28/96	NA	0.00	10.74	24.02	NA
		11/25/96	NA	0.00	9.19	25.57	NA
		12/23/96	NA	0.00	9.05	25.71	NA
		01/30/97	NP	0.00	8.03	26.73	0.00
		04/21/97	NP	0.00	9.35	25.41	0.00
		07/30/97	NP	0.00	10.45	24.31	0.00
						SPH Recovered to Date:	**0.00**
MW-21	34.33	04/24/95	NA	0.00	1.48	32.85	NA
		07/24/95	NA	0.00	2.21	32.12	NA
		10/23/95	NA	0.00	2.04	32.29	NA
		01/22/96	NA	0.00	1.08	33.25	NA
		04/22/96	NA	0.00	0.78	33.55	NA
		07/22/96	NA	0.00	2.24	32.09	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-21	34.33	10/28/96	NA	0.00	1.97	32.36	NA
		01/30/97	NP	0.00	1.15	33.18	0.00
		04/21/97	NP	0.00	1.13	33.20	0.00
		07/30/97	NP	0.00	2.05	32.28	0.00
						SPH Recovered to Date:	**0.00**
MW-22	35.65	03/06/95	NA	0.00	3.32	32.33	NA
		03/27/95	3.23	0.00	3.23	32.42	NA
		04/24/95	3.25	0.00	3.25	32.40	NA
		05/22/95	3.93	0.00	3.93	31.72	NA
		06/19/95	4.34	0.00	4.34	31.31	NA
		07/24/95	4.83	0.00	4.83	30.82	NA
		08/28/95	5.35	0.00	5.35	30.30	NA
		09/25/95	5.94	0.00	5.94	29.71	NA
		10/23/95	5.24	0.00	5.24	30.41	NA
		11/27/95	4.04	0.00	4.04	31.61	NA
		12/28/95	3.26	0.00	3.26	32.39	NA
		01/22/96	2.77	0.00	2.77	32.88	NA
		02/26/96	2.42	0.00	2.42	33.23	NA
		03/25/96	3.47	0.00	3.47	32.18	NA
		04/22/96	3.32	0.00	3.32	32.33	NA
		05/28/96	3.06	0.00	3.06	32.59	NA
		06/24/96	3.93	0.00	3.93	31.72	NA
		07/22/96	4.55	0.00	4.55	31.10	NA
		08/26/96	6.85	0.00	6.85	28.80	NA
		09/23/96	5.66	0.00	5.66	29.99	NA
		10/28/96	4.80	0.00	4.80	30.85	NA
		11/25/96	3.96	0.00	3.96	31.69	NA
		12/23/96	3.20	0.00	3.20	32.45	NA
		01/30/97	NP	0.00	3.72	31.93	0.00
		04/21/97	NP	0.00	3.27	32.38	0.00
		07/30/97	NP	0.00	4.73	30.92	0.00
						SPH Recovered to Date:	**0.00**
MW-23	36.06	03/27/95	9.42	0.00	9.42	26.64	NA
		04/24/95	3.97	0.00	3.97	32.09	NA
		05/22/95	4.50	0.00	4.50	31.56	NA
		06/26/95	4.75	0.00	4.75	31.31	NA
		07/24/95	5.07	0.00	5.07	30.99	NA
		08/28/95	5.44	0.11	5.55	30.60	NA
		10/23/95	5.15	0.00	5.15	30.91	NA
		11/27/95	3.56	0.00	3.56	32.50	NA
		12/28/95	4.27	0.00	4.27	31.79	NA
		01/22/96	NA	0.00	3.49	32.57	NA
		02/26/96	3.59	0.00	3.59	32.47	NA
		03/25/96	4.24	0.00	4.24	31.82	NA
		04/22/96	3.23	0.00	3.23	32.83	NA
		05/28/96	3.97	0.00	3.97	32.09	NA
		06/24/96	4.46	0.00	4.46	31.60	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-23	36.06	07/22/96	5.02	0.03	5.05	31.04	NA
		08/28/96	5.80	0.00	5.80	30.26	NA
		09/23/96	5.30	0.06	5.36	30.75	NA
		09/25/96	5.78	0.22	6.00	30.25	NA
		10/28/96	4.73	0.00	4.73	31.33	NA
		11/25/96	3.75	0.00	3.75	32.31	NA
		12/23/96	3.68	0.00	3.68	32.38	NA
		01/30/97	NP	0.00	3.46	32.60	0.00
		04/21/97	NP	0.00	3.89	32.17	0.00
		07/30/97	NP	0.00	5.15	30.91	0.00
						SPH Recovered to Date:	**0.00**
MW-24	35.15	03/06/95	4.15	0.83	4.98	30.88	NA
		04/24/95	5.31	0.94	4.37	31.58	NA
		05/22/95	4.96	0.01	4.95	30.21	NA
		06/26/95	6.50	1.90	8.40	28.36	NA
		07/24/95	7.25	0.24	7.49	27.86	NA
		08/28/95	8.42	1.58	10.00	26.49	NA
		12/01/95	NM	0.00	NM	0.00	28.10
		03/27/96	4.28	0.90	5.18	30.74	NA
		12/01/96	NM	0.00	NM	0.00	1.20
		01/30/97	NP	0.00	5.10	30.05	0.00
		04/21/97	NP	0.00	4.89	30.26	0.00
		07/30/97	8.30	0.16	8.46	26.83	0.25
						SPH Recovered to Date:	**29.55**
MW-25	34.73	04/22/96	10.00	0.24	10.24	24.69	NA
		09/23/96	11.69	0.00	11.69	23.04	NA
		10/28/96	NA	0.00	11.22	23.51	NA
		11/25/96	NA	0.00	9.95	24.78	NA
		12/23/96	NA	0.00	9.72	25.01	NA
		01/30/97	NP	0.00	9.37	25.36	0.00
		04/21/97	9.90	0.01	9.91	24.83	0.10
		07/24/97	NP	0.00	10.92	23.81	0.00
						SPH Recovered to Date:	**0.10**
MW-26	34.78	07/22/96	11.39	0.43	11.82	23.33	NA
		09/11/96	10.00	0.24	10.24	24.74	NA
		09/23/96	11.85	0.25	12.10	22.89	NA
		10/28/96	11.38	0.03	11.41	23.40	NA
		11/25/96	10.36	0.00	10.36	24.42	NA
		12/23/96	10.39	0.00	10.39	24.39	NA
		01/30/97	NP	0.00	10.35	24.43	0.00
		04/21/97	-	0.00	10.32	24.46	0.10
		07/30/97	11.42	0.01	11.43	23.36	0.10
						SPH Recovered to Date:	**0.20**
MW-27	35.67	02/26/96	3.94	0.00	3.94	31.73	NA
		03/25/96	4.73	0.00	4.73	30.94	NA
		04/22/96	3.71	0.00	3.71	31.96	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-27	35.67	05/28/96	4.54	0.00	4.54	31.13	NA
		06/24/96	5.34	0.00	5.34	30.33	NA
		07/22/96	5.73	0.00	5.73	29.94	NA
		08/26/96	5.96	0.00	5.96	29.71	NA
		09/23/96	6.81	0.00	6.81	28.86	NA
		10/28/96	5.35	0.00	5.35	30.32	NA
		11/25/96	3.34	0.00	3.34	32.33	NA
		12/23/96	4.04	0.00	4.04	31.63	NA
		01/30/97	NP	0.00	4.37	31.30	0.00
		04/21/97	NP	0.00	4.44	31.23	0.00
		07/30/97	NP	0.00	5.69	29.98	0.00
						SPH Recovered to Date:	**0.00**
MW-28	34.39	03/06/95	NA	0.00	4.41	29.98	NA
		03/27/95	4.74	0.01	4.75	29.65	NA
		04/24/95	5.26	0.00	5.26	29.13	NA
		05/22/95	6.00	0.02	6.02	28.39	NA
		06/26/95	6.50	0.09	6.59	27.88	NA
		07/24/95	6.94	0.00	6.94	27.45	NA
		08/28/95	8.04	0.01	8.05	26.35	0.75
		10/23/95	7.60	0.00	7.60	26.79	NA
		11/27/95	4.04	0.00	4.04	30.35	0.03
		12/28/95	4.25	0.00	4.25	30.14	NA
		01/22/96	2.29	0.00	2.29	32.10	NA
		02/26/96	3.78	0.00	3.78	30.61	NA
		03/25/96	5.10	0.00	5.10	29.29	NA
		04/22/96	4.22	0.00	4.22	30.17	NA
		05/28/96	4.66	0.00	4.66	29.73	NA
		06/24/96	6.01	0.00	6.01	28.38	NA
		07/22/96	6.77	0.00	6.77	27.62	NA
		08/28/96	7.56	0.00	7.56	26.83	NA
		09/23/96	6.28	0.00	6.28	28.11	NA
		09/25/96	11.75	0.00	11.75	22.64	1.03
		10/28/96	5.03	0.00	5.03	29.36	NA
		11/25/96	2.50	0.00	2.50	31.89	NA
		12/23/96	4.38	0.01	4.39	30.01	NA
		01/30/97	NP	0.00	3.71	30.68	0.00
		04/21/97	4.72	0.03	4.75	29.67	0.50
		07/30/97	NP	0.00	6.30	28.09	0.00
						SPH Recovered to Date:	**2.31**
MW-29	35.77	04/24/95	NA	0.00	13.34	22.43	NA
		07/24/95	NA	0.00	14.20	21.57	NA
		10/23/95	NA	0.00	14.86	20.91	NA
		01/22/96	NA	0.00	12.70	23.07	NA
		04/22/96	NA	0.00	12.75	23.02	NA
		07/22/96	NA	0.00	13.64	22.13	NA
		10/28/96	NA	0.00	14.15	21.62	NA
		01/30/97	NP	0.00	13.41	22.36	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-29	35.77	04/21/97	NP	0.00	12.89	22.88	0.00
		07/30/97	NP	0.00	13.58	22.19	0.00
						SPH Recovered to Date:	**0.00**
MW-30	36.39	01/30/97	NP	0.00	4.43	31.96	0.00
		04/21/97	NP	0.00	4.65	31.74	0.00
		07/30/97	NP	0.00	6.00	30.39	0.00
						SPH Recovered to Date:	**0.00**
MW-31	37.55	03/06/95	NA	0.00	5.64	31.91	NA
		03/27/95	5.75	0.01	5.76	31.80	NA
		04/24/95	6.09	0.00	6.09	31.46	NA
		05/22/95	6.70	0.00	6.70	30.85	NA
		06/26/95	7.26	0.00	7.26	30.29	NA
		07/24/95	7.74	0.00	7.74	29.81	NA
		08/28/95	8.41	0.00	8.41	29.14	NA
		10/23/95	8.56	0.00	8.56	28.99	NA
		11/27/95	6.33	0.00	6.33	31.22	NA
		12/28/95	5.90	0.00	5.90	31.65	NA
		01/22/96	4.62	0.00	4.62	32.93	NA
		02/26/96	4.92	0.00	4.92	32.63	NA
		03/25/96	6.02	0.00	6.02	31.53	NA
		04/22/96	5.57	0.00	5.57	31.98	NA
		05/28/96	5.73	0.00	5.73	31.82	NA
		06/24/96	6.72	0.00	6.72	30.83	NA
		07/22/96	7.38	0.00	7.38	30.17	NA
		08/28/96	8.02	0.00	8.02	29.53	NA
		09/23/96	7.48	0.00	7.48	30.07	NA
		09/25/96	8.96	0.00	8.96	28.59	NA
		10/28/96	6.68	0.00	6.68	30.87	NA
		11/25/96	4.92	0.00	4.92	32.63	NA
		12/23/96	5.08	0.00	5.08	32.47	NA
		01/30/97	NP	0.00	5.45	32.10	0.00
		04/21/97	NP	0.00	5.73	31.82	0.00
		07/30/97	NP	0.00	7.32	30.23	0.00
						SPH Recovered to Date:	**0.00**
MW-32	37.01	04/24/95	NA	0.00	4.27	32.74	NA
		07/24/95	NA	0.00	5.75	31.26	NA
		10/23/95	NA	0.00	6.40	30.61	NA
		04/22/96	NA	0.00	3.89	33.12	NA
		07/22/96	NA	0.00	5.45	31.56	NA
		10/28/96	NA	0.00	5.59	31.42	NA
		01/30/97	NP	0.00	4.37	32.64	0.00
		04/21/97	NP	0.00	4.02	32.99	0.00
		07/30/97	NP	0.00	5.49	31.52	0.00
						SPH Recovered to Date:	**0.00**
MW-33	39.34	04/24/95	NA	0.00	19.93	19.41	NA
		07/24/95	NA	0.00	20.68	18.66	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-33	39.34	10/23/95	NA	0.00	21.05	18.29	NA
		01/22/96	NA	0.00	19.07	20.27	NA
		04/22/96	NA	0.00	19.48	19.86	NA
		07/22/96	NA	0.00	20.26	19.08	NA
		10/28/96	NA	0.00	20.58	18.76	NA
		01/30/97	NP	0.00	18.92	20.42	0.00
		04/21/97	NP	0.00	19.61	19.73	0.00
		07/30/97	NP	0.00	20.03	19.31	0.00
						SPH Recovered to Date:	**0.00**
MW-34	39.67	04/24/95	NA	0.00	19.40	20.27	NA
		07/24/95	NA	0.00	19.99	19.68	NA
		10/23/95	NA	0.00	20.26	19.41	NA
		01/22/96	NA	0.00	18.71	20.96	NA
		04/22/96	NA	0.00	19.43	20.24	NA
		07/22/96	NA	0.00	19.74	19.93	NA
		10/28/96	NA	0.00	20.18	19.49	NA
	33.39	01/30/97	NP	0.00	18.78	14.61	0.00
		04/21/97	NP	0.00	19.41	20.26	0.00
		07/30/97	NP	0.00	19.76	13.63	0.00
						SPH Recovered to Date:	**0.00**
MW-35	33.39	01/30/97	NP	0.00	2.08	31.31	0.00
		04/21/97	NP	0.00	2.58	30.81	0.00
						SPH Recovered to Date:	**0.00**
MW-36	34.88	04/24/95	NA	0.00	19.40	15.48	NA
		07/24/95	NA	0.00	19.99	14.89	NA
		10/23/95	NA	0.00	20.26	14.62	NA
		01/22/96	NA	0.00	13.74	21.14	NA
		04/22/96	NA	0.00	13.72	21.16	NA
		07/22/96	NA	0.00	14.90	19.98	NA
		10/28/96	NA	0.00	15.54	19.34	NA
		01/30/97	NP	0.00	13.02	21.86	0.00
		04/21/97	NP	0.00	13.98	20.90	0.00
		07/30/97	NP	0.00	14.51	20.37	0.00
						SPH Recovered to Date:	**0.00**
MW-37	34.86	04/24/95	NA	0.00	14.96	19.90	NA
		07/24/95	NA	0.00	15.88	18.98	NA
		10/23/95	NA	0.00	16.37	18.49	NA
		01/22/96	NA	0.00	14.22	20.64	NA
		04/22/96	NA	0.00	13.72	21.14	NA
		07/22/96	NA	0.00	15.28	19.58	NA
		10/28/96	NA	0.00	15.80	19.06	NA
		01/30/97	NP	0.00	13.44	21.42	NA
		04/21/97	NP	0.00	14.48	20.38	NA
		07/30/97	NP	0.00	15.15	19.71	0.00
						SPH Recovered to Date:	**0.00**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-38	34.86	01/30/97	NP	0.00	3.98	30.88	0.00
		04/21/97	NP	0.00	4.84	30.02	0.00
						SPH Recovered to Date:	**0.00**
MW-39	35.02	06/24/96	13.01	0.00	13.01	22.01	NA
		07/22/96	13.45	0.00	13.45	21.57	NA
		08/26/96	13.90	0.00	13.90	21.12	NA
		09/23/96	14.08	0.00	14.08	20.94	NA
		10/28/96	14.00	0.00	14.00	21.02	NA
		11/25/96	13.54	0.00	13.54	21.48	NA
		12/23/96	12.77	0.00	12.77	22.25	NA
		01/30/97	NM	0.00	NM	0.00	0.00
		04/21/97	NM	0.00	NM	0.00	0.00
						SPH Recovered to Date:	**0.00**
MW-40	33.65	06/24/96	13.81	0.00	13.81	19.84	NA
		07/22/96	14.32	0.00	14.32	19.33	NA
		08/26/96	14.77	0.00	14.77	18.88	NA
		09/23/96	14.83	0.00	14.83	18.82	NA
		10/28/96	14.63	0.00	14.63	19.02	NA
		11/25/96	13.78	0.00	13.78	19.87	NA
		12/23/96	13.37	0.00	13.37	20.28	NA
		01/30/97	NP	0.00	12.74	20.91	0.00
		04/21/97	NP	0.00	13.65	20.00	0.00
		07/30/97	NP	0.00	14.24	19.41	0.00
						SPH Recovered to Date:	**0.00**
						GATX total SPH Recovered to Date:	**186.05**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco				
B-1	34.79	04/24/95	17.42	0.49	17.91	17.30	NA
		05/22/95	17.57	0.47	18.04	17.15	NA
		06/26/95	17.75	0.48	18.23	16.97	NA
		07/24/95	17.98	0.02	18.00	16.81	0.00
		08/28/95	18.32	0.02	18.34	16.47	NA
		09/25/95	18.37	0.14	18.51	16.40	NA
		10/23/95	18.30	0.01	18.31	16.49	NA
		11/27/95	17.94	0.03	17.97	16.85	0.01
		12/28/95	16.75	0.16	16.91	18.02	0.85
		01/22/96	16.73	0.12	16.85	18.04	0.01
		02/26/96	13.40	0.02	13.42	21.39	0.08
		04/22/96	16.20	0.15	16.35	18.57	0.01
		05/28/96	16.21	0.00	16.21	18.58	NA
		06/24/96	16.68	0.01	16.69	18.11	NA
		07/22/96	17.20	0.02	17.22	17.59	NA
		08/23/96	17.49	0.03	17.52	17.30	NA
		09/23/96	17.72	0.01	17.73	17.07	NA
		10/28/96	17.18	0.01	17.19	17.61	NA
		01/31/97	15.94	0.16	16.10	18.83	NA
		04/21/97	16.87	0.12	16.99	17.90	NA
		07/28/97	17.15	0.65	17.80	17.54	NA
						SPH Recovered to Date:	**0.96**
B-2	35.35	03/28/95	NA	0.00	16.84	18.51	NA
		04/24/95	NA	0.00	17.02	18.33	NA
		05/22/95	NA	0.00	17.22	18.13	NA
		06/26/95	NA	0.00	17.48	17.87	NA
		08/28/95	19.58	0.26	19.84	15.73	NA
		09/25/95	NA	0.00	18.18	17.17	NA
		10/23/95	NA	0.00	18.15	17.20	NA
		12/28/95	NA	0.00	16.56	18.79	NA
		01/22/96	16.48	0.02	16.50	18.87	NA
		04/22/96	NA	0.00	16.28	19.07	NA
		05/28/96	NA	0.00	16.14	19.21	NA
		06/24/96	NA	0.00	16.50	18.85	NA
		07/22/96	NA	0.00	16.99	18.36	NA
		08/23/96	NA	0.00	17.48	17.87	NA
		09/23/96	NA	0.00	17.50	17.85	NA
		10/28/96	NA	0.00	17.60	17.75	NA
		01/31/97	NP	0.00	15.69	19.66	0.00
		04/21/97	NP	0.00	16.52	18.83	0.00
		07/28/97	NP	0.00	16.94	18.41	0.00
						SPH Recovered to Date:	**0.00**
B-3	36.79	01/31/97	NP	0.00	17.26	19.53	0.00
		04/21/97	NP	0.00	18.48	18.31	0.00
		07/28/97	NP	0.00	18.83	17.96	0.00
						SPH Recovered to Date:	**0.00**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco				
B-4	34.79	03/28/95	17.92	0.71	18.63	16.76	NA
		04/24/95	18.01	1.16	19.17	16.61	NA
		05/22/95	18.11	1.13	19.24	16.51	NA
		06/26/95	18.27	1.01	19.28	16.37	NA
		07/24/95	18.53	0.11	18.64	16.24	0.15
		08/28/95	18.62	0.01	18.63	16.17	NA
		09/25/95	18.82	0.13	18.95	15.95	NA
		10/23/95	18.83	0.02	18.85	15.96	NA
		11/27/95	18.56	0.06	18.62	16.22	0.37
		01/22/96	17.60	0.04	17.64	17.18	0.24
		02/26/96	NA	0.00	13.68	21.11	NA
		04/22/96	16.35	0.09	16.44	18.43	0.02
		05/28/96	16.35	0.07	16.42	18.43	0.02
		08/23/96	18.35	0.00	18.35	16.44	NA
		09/23/96	18.44	0.01	18.45	16.35	NA
		10/28/96	17.56	1.03	18.59	17.08	NA
		01/31/97	17.00	0.48	17.48	17.72	3.25
		04/21/97	NP	0.00	17.71	17.08	0.10
		07/28/97	18.50	0.02	18.52	16.29	0.10
						SPH Recovered to Date:	**4.25**
B-5	34.79	01/22/96	NA	0.00	16.18	18.61	NA
		02/26/96	NA	0.00	14.40	20.39	NA
		05/28/96	NA	0.00	15.59	19.20	NA
		06/24/96	DRY	0.00	DRY	0.00	DRY
		07/22/96	DRY	0.00	DRY	0.00	DRY
		08/23/96	DRY	0.00	DRY	0.00	DRY
		09/23/96	NA	0.00	17.02	17.77	NA
		10/28/96	NA	0.00	17.10	17.69	NA
	34.83	01/31/97	NP	0.00	15.30	19.53	0.00
		04/21/97	NP	0.00	16.08	18.75	0.00
		07/28/97	NP	0.00	16.54	18.29	0.00
						SPH Recovered to Date:	**0.00**
B-6	35.41	01/22/96	NP	0.00	16.44	18.97	NA
		02/26/96	NP	0.00	15.60	19.81	NA
		04/22/96	NA	0.00	16.15	19.26	NA
		05/28/96	NA	0.00	16.11	19.30	NA
		06/24/96	NA	0.00	16.47	18.94	NA
		07/22/96	NA	0.00	16.91	18.50	NA
		08/23/96	NA	0.00	17.99	17.42	NA
		09/23/96	NA	0.00	17.45	17.96	NA
		10/28/96	NA	0.00	17.34	18.07	NA
		01/31/97	NP	0.00	15.47	19.94	0.00
		04/21/97	NP	0.00	16.31	19.10	0.00
		07/28/97	NP	0.00	16.87	18.54	0.00
						SPH Recovered to Date:	**0.00**
B-16	35.82	03/24/95	NA	0.00	16.99	18.83	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-16	35.82	04/24/95	NA	0.00	17.12	18.70	NA
		05/22/95	NA	0.00	17.37	18.45	NA
		06/19/95	NA	0.00	17.59	18.23	NA
		07/24/95	NA	0.00	17.89	17.93	NA
		08/28/95	NA	0.00	18.10	17.72	NA
		09/25/95	NA	0.00	18.35	17.47	NA
		10/23/95	NA	0.00	18.30	17.52	NA
		11/27/95	NA	0.00	17.90	17.92	NA
		01/22/96	0.00	16.75	16.75	33.31	NA
		02/26/96	NA	0.00	13.30	22.52	NA
		04/22/96	NA	0.00	16.04	19.78	NA
		05/28/96	NA	0.00	16.39	19.43	NA
		06/24/96	NA	0.00	16.71	19.11	NA
		07/22/96	NA	0.00	17.19	18.63	NA
		09/23/96	NA	0.00	17.76	18.06	NA
		10/28/96	NA	0.00	17.82	18.00	NA
		01/31/97	NP	0.00	15.75	20.07	0.00
		04/21/97	NP	0.00	16.65	19.17	0.00
		07/28/97	NP	0.00	17.15	18.67	0.00
						SPH Recovered to Date:	**0.00**
B-17	35.59	03/28/95	16.95	0.00	16.95	18.64	NA
		04/24/95	NA	0.00	17.15	18.44	NA
		05/22/95	17.36	0.00	17.36	18.23	NA
		06/26/95	17.61	0.00	17.61	17.98	NA
		07/24/95	17.79	0.01	17.80	17.80	NA
		08/28/95	18.78	0.01	18.79	16.81	NA
		09/25/95	NA	0.00	18.23	17.36	NA
		10/23/95	NA	0.00	18.21	17.38	NA
		11/27/95	17.85	0.00	17.85	17.74	NA
		12/28/95	NA	0.00	16.85	18.74	NA
		01/22/96	NA	0.00	16.78	18.81	NA
		02/26/96	13.35	0.01	13.36	22.24	NA
		04/22/96	16.44	0.00	16.44	19.15	NA
		05/28/96	16.40	0.00	16.40	19.19	NA
		06/24/96	16.40	0.00	16.40	19.19	NA
		07/22/96	17.16	0.00	17.16	18.43	NA
		08/23/96	17.57	0.00	17.57	18.02	NA
		09/23/96	NA	0.00	17.68	17.91	NA
		10/28/96	NA	0.00	17.75	17.84	NA
		01/31/97	NP	0.00	15.86	19.73	0.00
		04/21/97	NP	0.00	16.66	18.93	0.00
		07/28/97	NP	0.00	17.15	18.44	0.00
						SPH Recovered to Date:	**0.00**
B-18	35.79	03/28/95	NA	0.00	19.28	16.51	NA
		04/24/95	NA	0.00	19.38	16.41	NA
		05/22/95	NA	0.00	19.44	16.35	NA
		06/26/95	NA	0.00	19.56	16.23	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-18	35.79	07/24/95	NA	0.00	19.74	16.05	NA
		08/28/95	NA	0.00	19.43	16.36	NA
		09/25/95	NA	0.00	20.02	15.77	NA
		10/23/95	NA	0.00	20.08	15.71	NA
		12/28/95	NA	0.00	18.66	17.13	NA
		01/22/96	0.00	18.20	18.20	33.06	NA
		02/26/96	0.00	18.38	18.38	33.03	NA
		04/22/96	NA	0.00	18.50	17.29	NA
		05/28/96	NA	0.00	17.84	17.95	NA
		06/24/96	NA	0.00	18.35	17.44	NA
		07/22/96	NA	0.00	18.97	16.82	NA
		08/23/96	NA	0.00	17.50	18.29	NA
		09/23/96	NA	0.00	19.43	16.36	NA
		10/28/96	NA	0.00	19.47	16.32	NA
		01/31/97	NP	0.00	18.09	17.70	0.00
		04/21/97	NP	0.00	18.94	16.85	0.00
		07/28/97	NP	0.00	19.14	16.65	0.00
						SPH Recovered to Date:	**0.00**
B-22	35.83	03/28/95	NA	0.00	18.50	17.33	NA
		04/24/95	NA	0.00	19.10	16.73	NA
		05/22/95	NA	0.00	19.09	16.74	NA
		06/26/95	NA	0.00	19.26	16.57	NA
		09/25/95	NA	0.00	20.50	15.33	NA
		10/23/95	NA	0.00	19.96	15.87	NA
		12/28/95	NA	0.00	18.59	17.24	0.02
		01/22/96	NA	0.00	18.88	16.95	NA
		02/26/96	NA	0.00	12.05	23.78	NA
		04/22/96	NA	0.00	17.75	18.08	NA
		05/28/96	NA	0.00	17.31	18.52	NA
		06/24/96	NA	0.00	18.12	17.71	NA
		07/22/96	NA	0.00	19.09	16.74	NA
		08/23/96	NA	0.00	19.03	16.80	NA
		09/23/96	NA	0.00	19.79	16.04	NA
		10/28/96	NA	0.00	19.75	16.08	NA
		01/31/97	17.92	0.01	17.93	17.91	0.10
		04/21/97	NP	0.00	18.67	17.16	0.00
		07/28/97	18.89	2.26	21.15	16.60	1.00
						SPH Recovered to Date:	**1.12**
B-25	37.60	04/21/97	NP	0.00	15.29	22.31	0.00
						SPH Recovered to Date:	**0.00**
B-27	35.74	03/28/95	17.25	0.27	17.52	18.45	NA
		04/24/95	17.70	0.31	18.01	17.99	NA
		05/22/95	17.85	0.32	18.17	17.84	NA
		06/26/95	17.91	1.12	19.03	17.66	NA
		07/24/95	18.11	1.14	19.25	17.46	NA
		08/28/95	18.75	0.50	19.25	16.92	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-27	35.74	09/25/95	18.50	1.10	19.60	17.08	NA
		10/23/95	18.59	1.10	19.69	16.99	NA
		11/27/95	18.50	0.30	18.80	17.19	0.80
		01/22/96	17.44	0.43	17.87	18.24	0.78
		02/26/96	13.38	0.31	13.69	22.31	0.25
		04/22/96	16.68	0.27	16.95	19.02	0.12
		08/23/96	18.12	0.56	18.68	17.54	0.31
		09/23/96	18.34	0.36	18.70	17.35	NA
		10/28/96	18.58	0.11	18.69	17.14	NA
		01/31/97	16.43	2.20	18.63	18.98	4.00
		04/21/97	17.37	0.13	17.50	18.35	0.60
		07/25/97	NP	0.00	17.86	17.88	0.00
						SPH Recovered to Date:	**6.86**
B-35	33.58	04/24/95	16.10	0.23	16.33	17.45	NA
		05/22/95	16.24	0.19	16.43	17.31	NA
		06/26/95	16.45	0.23	16.68	17.10	NA
		07/24/95	16.65	0.21	16.86	16.90	NA
		08/28/95	17.35	0.17	17.52	16.20	NA
		09/25/95	17.02	0.30	17.32	16.51	NA
		10/23/95	16.94	0.21	17.15	16.61	NA
		11/27/95	16.50	0.06	16.56	17.07	0.08
		12/28/95	15.60	0.01	15.61	17.98	0.02
		01/22/96	15.52	0.05	15.57	18.05	NA
		02/26/96	13.50	0.05	13.55	20.07	NA
		04/22/96	17.78	0.06	17.84	15.79	NA
		05/28/96	15.08	0.00	15.08	18.50	NA
		06/24/96	NA	0.00	15.54	18.04	NA
		07/22/96	NA	0.00	16.06	17.52	NA
		08/23/96	NA	0.00	16.85	16.73	NA
		09/23/96	NA	0.00	16.60	16.98	NA
		10/28/96	16.85	0.06	16.91	16.72	NA
		01/31/97	NP	0.00	14.84	18.74	0.00
		04/21/97	NP	0.00	15.74	17.84	0.00
		07/28/97	NP	0.00	16.05	17.53	0.00
						SPH Recovered to Date:	**0.10**
B-36	30.97	03/28/95	NA	0.00	14.65	16.32	NA
		04/24/95	NA	0.00	14.95	16.02	NA
		05/22/95	NA	0.00	15.03	15.94	NA
		06/26/95	NA	0.00	15.24	15.73	NA
		07/24/95	NA	0.00	15.47	15.50	NA
		08/28/95	NA	0.00	15.35	15.62	NA
		09/25/95	NA	0.00	15.82	15.15	NA
		10/23/95	NA	0.00	15.60	15.37	NA
		12/28/95	NA	0.00	13.91	17.06	NA
		01/22/96	0.00	13.93	13.93	28.88	NA
		02/26/96	0.00	10.75	10.75	29.36	NA
		04/22/96	NA	0.00	14.10	16.87	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-36	30.97	05/28/96	NA	0.00	13.01	17.96	NA
		06/24/96	NA	0.00	13.84	17.13	NA
		07/22/96	NA	0.00	15.01	15.96	NA
		08/23/96	NA	0.00	15.81	15.16	NA
		09/23/96	NA	0.00	15.65	15.32	NA
		10/28/96	NA	0.00	15.55	15.42	NA
		01/31/97	NP	0.00	13.44	17.53	0.00
		04/21/97	NP	0.00	19.98	10.99	0.00
		07/28/97	NP	0.00	15.01	15.96	0.00
						SPH Recovered to Date:	**0.00**
B-37	35.24	03/28/95	NA	0.00	18.51	16.73	NA
		04/24/95	NA	0.00	19.66	15.58	NA
		05/22/95	NA	0.00	19.62	15.62	NA
		06/26/95	NA	0.00	19.75	15.49	NA
		07/24/95	NA	0.00	20.08	15.16	NA
		08/28/95	NA	0.00	20.10	15.14	NA
		09/25/95	20.41	0.01	20.42	14.83	NA
		10/23/95	20.44	0.01	20.45	14.80	NA
		11/27/95	19.90	0.00	19.90	15.34	NA
		12/28/95	19.66	0.00	19.66	15.58	NA
		01/22/96	18.20	0.03	18.23	17.04	NA
		02/26/96	NA	0.00	14.15	21.09	NA
		04/22/96	NA	0.00	18.90	16.34	NA
		05/28/96	NA	0.00	17.94	17.30	NA
		06/24/96	NA	0.00	19.13	16.11	NA
		07/22/96	NA	0.00	20.13	15.11	NA
		08/23/96	NA	0.00	20.15	15.09	NA
		09/23/96	NA	0.00	20.76	14.48	NA
		10/28/96	NA	0.00	20.87	14.37	NA
		01/31/97	NP	0.00	19.29	15.95	2.00
		04/21/97	14.39	0.09	14.48	20.84	NA
		07/28/97	NP	0.00	20.30	14.94	0.00
						SPH Recovered to Date:	**2.00**
B-38	34.75	03/28/95	18.95	1.95	20.90	15.51	NA
		04/24/95	19.17	1.51	20.68	15.35	NA
		05/22/95	19.13	1.45	20.58	15.40	NA
		06/26/95	19.30	1.16	20.46	15.28	NA
		07/24/95	19.75	0.17	19.92	14.97	0.20
		08/28/95	19.82	0.71	20.53	14.82	NA
		09/25/95	19.99	1.03	21.02	14.61	NA
		10/23/95	20.00	1.03	21.03	14.60	NA
		11/27/95	19.50	0.32	19.82	15.20	0.81
		01/22/96	18.89	0.14	19.03	15.84	0.45
		02/26/96	13.70	0.37	14.07	20.99	1.31
		04/22/96	18.63	0.25	18.88	16.08	NA
		07/22/96	19.59	1.25	20.84	14.97	NA
		08/23/96	18.70	0.03	18.73	16.05	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco				
B-38	34.75	09/23/96	20.18	0.78	20.96	14.45	NA
		10/28/96	20.18	0.70	20.88	14.47	NA
		01/31/97	18.80	0.45	19.25	15.88	2.00
		04/21/97	19.39	0.64	20.03	15.26	0.60
		07/25/97	19.78	0.21	19.99	14.94	0.75
						SPH Recovered to Date:	**6.12**
B-39	33.92	03/28/95	18.14	0.04	18.18	15.77	NA
		04/24/95	18.31	0.03	18.34	15.61	NA
		05/22/95	18.28	0.03	18.31	15.64	NA
		06/26/95	18.43	0.09	18.52	15.48	NA
		07/24/95	18.73	0.13	18.86	15.17	NA
		08/28/95	18.95	0.11	19.06	14.95	NA
		09/25/95	19.08	0.14	19.22	14.82	NA
		10/23/95	19.09	0.20	19.29	14.80	NA
		11/27/95	19.55	0.07	19.62	14.36	0.11
		12/28/95	18.05	0.18	18.23	15.84	0.04
		01/22/96	17.03	0.07	17.10	16.88	0.01
		02/26/96	13.54	0.46	14.00	20.31	0.03
		04/22/96	18.65	0.08	18.73	15.26	0.90
		05/28/96	16.64	0.12	16.76	17.26	0.02
		06/24/96	17.67	0.72	18.39	16.14	0.03
		07/22/96	18.68	0.03	18.71	15.24	0.01
		08/23/96	19.18	0.87	20.05	14.61	0.40
		09/23/96	19.42	0.09	19.51	14.49	NA
		10/28/96	19.25	0.04	19.29	14.66	NA
		01/31/97	18.27	0.91	19.18	15.51	2.00
		04/21/97	18.43	0.10	18.53	15.48	0.40
		07/25/97	18.72	0.97	19.69	15.05	2.75
						SPH Recovered to Date:	**6.70**
B-40	33.19	03/28/95	17.55	0.09	17.64	15.63	NA
		04/24/95	17.84	0.12	17.96	15.33	NA
		05/22/95	17.75	0.11	17.86	15.42	NA
		06/26/95	17.95	0.11	18.06	15.22	NA
		08/28/95	18.40	0.01	18.41	14.79	NA
		09/25/95	NA	0.00	18.77	14.42	NA
		10/23/95	18.74	0.01	18.75	14.45	NA
		11/27/95	17.98	0.02	18.00	15.21	NA
		12/28/95	17.23	0.00	17.23	15.96	NA
		01/22/96	NA	0.00	16.40	16.79	NA
		02/26/96	NA	0.00	12.75	20.44	NA
		04/22/96	17.01	0.00	17.01	16.18	NA
		05/28/96	15.78	0.29	16.07	17.37	NA
		06/24/96	16.99	0.15	17.14	16.18	0.23
		07/22/96	18.32	0.12	18.44	14.85	0.01
		08/23/96	18.87	0.06	18.93	14.31	0.02
		09/23/96	19.06	0.06	19.12	14.12	NA
		10/28/96	NA	0.00	19.02	14.17	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-40	33.19	01/31/97	16.76	0.54	17.30	16.35	NA
		04/21/97	17.79	0.02	17.81	15.40	0.40
		07/25/97	18.86	0.04	18.90	14.32	1.50
						SPH Recovered to Date:	**2.16**
B-41	34.85	03/28/95	18.80	0.08	18.88	16.04	NA
		04/24/95	18.93	0.06	18.99	15.91	NA
		05/22/95	18.95	0.07	19.02	15.89	NA
		06/26/95	19.11	0.06	19.17	15.73	NA
		08/28/95	18.55	0.70	19.25	16.19	NA
		09/25/95	19.73	0.20	19.93	15.09	NA
		10/23/95	19.70	0.60	20.30	15.06	NA
		11/27/95	18.50	0.15	18.65	16.33	0.23
		01/22/96	17.38	0.04	17.42	17.46	0.18
		02/26/96	13.40	0.41	13.81	21.39	NA
		04/22/96	12.75	0.23	12.98	22.07	NA
		09/23/96	19.38	0.02	19.40	15.47	0.06
		10/28/96	19.87	0.08	19.95	14.97	NA
		01/31/97	NP	0.00	18.31	16.54	0.00
		04/21/97	18.51	0.03	18.54	16.34	0.20
		07/25/97	18.13	0.70	18.83	16.61	0.10
						SPH Recovered to Date:	**0.77**
IT-E	36.44	01/31/97	18.85	0.62	19.47	17.50	0.50
		04/21/97	19.69	0.63	20.32	16.66	0.30
		07/28/97	20.05	0.60	20.65	16.30	2.00
						SPH Recovered to Date:	**2.80**
IT-W	35.99	01/31/97	NP	0.00	16.65	19.34	0.00
		04/21/97	NP	0.00	17.44	18.55	0.00
		07/28/97	NP	0.00	17.81	18.18	0.00
						SPH Recovered to Date:	**0.00**
RES-N	38.58	03/28/95	23.14	0.76	23.90	15.33	NA
		04/24/95	23.17	1.74	24.91	15.15	NA
		05/22/95	23.17	0.75	23.92	15.30	NA
		06/26/95	23.26	0.75	24.01	15.21	NA
		08/28/95	23.64	0.68	24.32	14.84	NA
		09/25/95	23.75	0.50	24.25	14.76	NA
		10/23/95	23.80	0.60	24.40	14.69	NA
		11/27/95	23.26	0.60	23.86	15.23	1.59
		12/28/95	22.59	0.02	22.61	15.99	1.21
		01/22/96	20.91	0.03	20.94	17.67	5.00
		02/26/96	23.34	0.76	24.10	15.13	41.25
		04/22/96	22.14	0.02	22.16	16.44	NA
		05/28/96	21.11	0.00	21.11	17.47	NA
		06/24/96	22.41	0.00	22.41	16.17	NA
		07/22/96	22.88	0.00	22.88	15.70	NA
		07/24/96	23.45	0.76	24.21	15.02	NA
		08/23/96	NA	0.00	22.21	16.37	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
RES-N	38.58	09/23/96	23.74	0.02	23.76	14.84	NA
		10/28/96	NA	0.00	24.32	14.26	NA
		01/31/97	22.45	0.09	22.54	16.12	2.00
		04/21/97	23.00	0.01	23.01	15.58	NA
		07/28/97	23.46	0.02	23.48	15.12	0.10
						SPH Recovered to Date:	**51.15**
RES-O	36.03	03/28/95	17.61	0.04	17.65	18.41	NA
		04/24/95	17.78	0.02	17.80	18.25	NA
		05/22/95	17.99	0.02	18.01	18.04	NA
		06/26/95	18.26	0.02	18.28	17.77	NA
		08/28/95	17.30	0.25	17.55	18.69	NA
		09/25/95	18.60	0.61	19.21	17.34	NA
		10/23/95	18.90	0.14	19.04	17.11	NA
		11/27/95	19.25	0.01	19.26	16.78	0.01
		12/28/95	17.53	0.01	17.54	18.50	NA
		01/22/96	17.42	0.07	17.49	18.60	NA
		02/26/96	12.50	0.11	12.61	23.51	NA
		04/22/96	10.95	0.10	11.05	25.07	NA
		05/28/96	16.82	0.00	16.82	19.21	NA
		06/24/96	17.18	0.01	17.19	18.85	NA
		07/22/96	17.53	0.01	17.54	18.50	NA
		08/23/96	18.10	0.01	18.11	17.93	NA
		09/23/96	18.22	0.08	18.30	17.80	NA
		10/28/96	18.10	0.05	18.15	17.92	NA
		01/31/97	NP	0.00	16.20	19.83	0.00
		04/21/97	NP	0.00	17.00	19.03	0.00
		07/28/97	NP	0.00	17.65	18.38	0.00
						SPH Recovered to Date:	**0.01**
U-2	35.02	03/28/95	NA	0.00	14.88	20.14	NA
		04/24/95	NA	0.00	15.10	19.92	NA
		05/22/95	NA	0.00	15.25	19.77	NA
		06/26/95	NA	0.00	15.52	19.50	NA
		07/24/95	NA	0.00	15.75	19.27	NA
		08/28/95	NA	0.00	15.65	19.37	NA
		09/25/95	NA	0.00	15.20	19.82	NA
		10/23/95	NA	0.00	16.57	18.45	NA
		12/28/95	NA	0.00	15.06	19.96	NA
		01/22/96	NA	0.00	16.44	18.58	NA
		02/26/96	NA	0.00	14.35	20.67	NA
		04/22/96	NA	0.00	15.01	20.01	NA
		05/28/96	NA	0.00	13.98	21.04	NA
		06/24/96	NA	0.00	14.36	20.66	NA
		07/22/96	NA	0.00	14.96	20.06	NA
		08/23/96	NA	0.00	15.10	19.92	NA
		09/23/96	NA	0.00	14.93	20.09	NA
		10/28/96	NA	0.00	14.85	20.17	NA
		01/31/97	NP	0.00	13.86	21.16	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
U-2	35.02	04/21/97	NP	0.00	14.52	20.50	0.00
		07/28/97	NP	0.00	15.27	19.75	0.00
						SPH Recovered to Date:	**0.00**
U-3	35.25	03/28/95	NA	0.00	12.72	22.53	NA
		04/24/95	NA	0.00	12.93	22.32	NA
		05/22/95	NA	0.00	13.55	21.70	NA
		06/26/95	13.89	0.01	13.90	21.36	NA
		07/24/95	NA	0.00	14.02	21.23	NA
		08/28/95	NA	0.00	19.65	15.60	NA
		09/25/95	NA	0.00	16.35	18.90	NA
		10/23/95	14.20	0.01	14.21	21.05	NA
		11/27/95	14.20	0.00	14.20	21.05	NA
		12/28/95	12.71	0.00	12.71	22.54	NA
		01/22/96	16.56	0.02	16.58	18.69	NA
		02/26/96	14.51	0.36	14.15	21.41	NA
		04/22/96	NA	0.00	15.15	20.10	NA
		05/28/96	NA	0.00	12.27	22.98	NA
		06/24/96	NA	0.00	12.69	22.56	NA
		07/22/96	NA	0.00	13.02	22.23	NA
		08/23/96	NA	0.00	13.15	22.10	NA
		09/23/96	NA	0.00	15.02	20.23	NA
		10/28/96	NA	0.00	17.90	17.35	NA
		01/31/97	NP	0.00	11.86	23.39	0.00
		04/21/97	NP	0.00	12.82	22.43	0.00
		07/28/97	NP	0.00	13.83	21.42	0.00
						SPH Recovered to Date:	**0.00**
U-4	34.46	03/28/95	17.42	3.98	21.40	16.44	NA
		04/24/95	15.60	6.17	21.77	17.93	NA
		05/22/95	15.75	6.18	21.93	17.78	NA
		06/26/95	15.96	6.16	22.12	17.58	NA
		07/24/95	16.33	4.17	20.50	17.50	NA
		08/28/95	17.23	3.72	20.95	16.67	5.20
		09/25/95	18.60	0.25	18.85	15.82	NA
		10/23/95	17.35	3.90	21.25	16.52	NA
		11/27/95	16.40	2.40	18.80	17.70	1.22
		01/22/96	17.60	0.04	17.64	16.85	2.79
		02/26/96	12.85	0.30	13.15	21.57	0.98
		04/22/96	11.50	0.23	11.73	22.93	0.31
		08/23/96	16.31	0.16	16.47	18.13	0.25
		09/23/96	16.61	0.09	16.70	17.84	NA
		10/28/96	17.56	0.19	17.75	16.87	NA
		01/31/97	14.80	2.25	17.05	19.32	6.50
		04/21/97	15.26	0.09	15.35	19.19	NA
		07/25/97	15.85	0.01	15.86	18.61	0.10
						SPH Recovered to Date:	**17.35**
U-5	33.37	03/28/95	NA	0.00	18.21	15.16	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
U-5	33.37	04/24/95	NA	0.00	18.47	14.90	NA
		05/22/95	NA	0.00	18.33	15.04	NA
		06/26/95	NA	0.00	8.42	24.95	NA
		07/24/95	18.90	0.01	18.91	14.47	NA
		08/28/95	19.13	0.12	19.25	14.22	NA
		09/25/95	19.27	0.25	19.52	14.06	NA
		10/23/95	19.32	0.17	19.49	14.02	NA
		11/27/95	18.50	0.10	18.60	14.85	0.03
	34.20	12/28/95	18.43	0.05	18.48	15.76	0.07
		01/22/96	15.57	0.08	15.65	18.62	0.02
		02/26/96	13.55	0.15	13.70	20.63	NA
		04/22/96	17.82	0.08	17.90	16.37	0.02
		05/28/96	16.52	0.01	16.53	17.68	NA
		06/24/96	18.10	0.01	18.11	16.10	NA
		07/22/96	19.39	0.03	19.42	14.81	NA
		09/23/96	20.04	0.04	20.08	14.15	NA
		10/28/96	18.15	0.07	18.22	16.04	NA
		01/31/97	NP	0.00	18.01	16.19	0.00
		04/21/97	NP	0.00	18.61	15.59	0.00
		07/28/97	NP	0.00	19.38	14.82	0.00
						SPH Recovered to Date:	**0.14**
U-5A	33.77	03/28/95	4.73	1.47	6.20	28.82	NA
		04/24/95	6.02	0.39	6.41	27.69	NA
		05/22/95	6.52	0.00	NM	0.00	NA
		06/26/95	6.97	0.00	NM	0.00	0.50
		07/24/95	9.86	0.37	10.23	23.85	NA
		08/28/95	9.50	0.45	9.95	24.20	0.01
		09/25/95	NA	0.00	15.61	18.16	NA
		10/23/95	15.30	0.20	15.50	18.44	NA
		11/27/95	6.34	0.08	6.42	27.42	0.36
		12/28/95	5.97	0.42	6.39	27.74	0.25
		01/22/96	6.43	0.07	6.50	27.33	0.07
		02/26/96	8.50	0.03	8.53	25.27	0.08
		04/22/96	9.35	0.05	9.40	24.41	0.05
		06/24/96	5.79	0.32	6.11	27.93	0.15
		07/22/96	6.47	0.07	6.54	27.29	0.05
		08/23/96	7.21	0.89	8.10	26.43	0.32
		09/23/96	8.58	1.31	9.89	24.99	NA
		10/28/96	20.04	0.03	20.07	13.73	NA
		01/31/97	4.59	0.27	4.86	29.14	10.00
		04/21/97	5.33	0.04	5.37	28.43	NA
		07/25/97	6.89	0.06	6.95	26.87	1.10
						SPH Recovered to Date:	**12.94**
						Tosco total SPH Recovered to Date:	**115.43**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
						Complete total SPH Recovered to Date:	**338.35**

Notes:

SPH = Separate-phase hydrocarbon
NP = No product
NA = Not available
NM = Not measured
SPH recovered to 10/28/96 has been accumulative process on a weekly to monthly basis and added together to get the sum.
* = Groundwater elevation (GWE) is corrected for the presence of SPH using:
GWE = toc - (DTW + (SPH thickness x Specific gravity of SPH)) Specific gravity used is 0.85
** = SPH recovered represents total recovered for presented interval.

Table 6
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron			
B-7	01/01/95	ND	ND	ND	ND
	04/01/95	ND	0.73	ND	ND
	07/01/95	ND	0.57	ND	ND
	10/01/95	ND	ND	ND	ND
	01/01/96	ND	ND	0.5	NS
	04/01/96	ND	ND	ND	ND
	07/22/96	5.4	0.64	ND	ND
	10/28/96	ND	ND	ND	ND
	01/29/97	ND	ND	ND	ND
	04/28/97	ND	ND	ND	ND
B-9	01/01/95	ND	0.9	ND	1.5
	04/01/95	ND	0.88	ND	1.3
	07/01/95	ND	1	ND	0.52
	10/01/95	ND	1	ND	2.5
	01/22/96	0.63	0.66	ND	1.8
	04/22/96	1	1.3	ND	2.7
	07/22/96	1.8	0.86	ND	0.93
	10/28/96	ND	ND	ND	ND
	01/29/97	ND	ND	ND	ND
	04/28/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	2.22
B-10	01/01/95	8.6	2.9	0.7	5.2
	04/01/95	11	5.7	14	17
	07/01/95	8.3	3.6	4.3	11
	10/01/95	22	4.3	1.8	13
	01/22/96	8.6	2.1	ND	5.4
	04/22/96	33	5.6	1.3	15
	07/22/96	30	4.5	6.6	15
	10/28/96	120	4.5	4	11
	01/29/97	172	6.16	1.27	10.5
	04/28/97	60.8	4.72	2.82	6.54
	07/31/97	52.0	ND	ND	ND

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron (continued)			
B-11	01/01/95	12	2.8	52	9.9
	04/01/95	140	8.2	2.6	6.3
	07/01/95	140	9.3	2.3	9.5
	10/01/95	320	7.8	ND	8.1
	01/22/96	260	4	140	24
Duplicate	01/22/96	ND	ND	ND	ND
	04/01/96	340	9.8	38	14
	07/22/96	250	7.3	2.4	13
	10/28/96	290	12	4.3	9.5
	01/29/97	243	ND	411	79.0
	04/28/97	243	5.90	24.3	11.0
	07/31/97	339	150	141	448
B-13	01/22/96	400	7.7	18	14
B-14	01/01/95	190	15	78	46
	04/01/95	140	7.6	170	83
	07/01/95	190	21	91	55
	10/01/95	240	20	45	22
	01/22/96	230	9.5	51	27
	04/22/96	260	14	93	52
Duplicate	04/22/96	270	14	90	50
	07/22/96	230	15	100	67
Duplicate	07/22/96	220	18	110	74
	10/28/96	140	8.2	29	12
Duplicate	10/28/96	120	8.3	24	11
	01/29/97	1,340	35.5	498	94.5
Duplicate	01/29/97	2,180	50.0	835	198
	04/28/97	1,310	57.5	440	ND
	07/31/97	407	37.2	118	67.0
Duplicate	07/31/97	332	32.0	83.5	51.0

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron (continued)			
B-28	01/01/95	10	0.7	17	2
	04/01/95	19	0.86	48	7.8
	07/01/95	1.7	0.82	32	5.6
	10/01/95	3	ND	0.93	ND
	01/22/96	4.6	ND	19	6.6
	04/01/96	ND	ND	ND	ND
	07/22/96	14	0.74	64	13
	10/28/96	2.3	ND	2.5	ND
	01/29/97	26.4	1.50	160	62.5
	07/31/97	2.19	ND	12.5	2.39
B-30	01/01/95	51	7.6	3.1	17
	04/01/95	28	3.1	1.6	9.9
	07/01/95	12	2	0.71	4.5
	10/01/95	43	4.6	0.94	11
	01/22/96	50	7.1	2.4	14
	04/22/96	25	7.4	3.2	15
	07/22/96	38	4.2	1.9	9
	10/28/96	19	4.1	0.95	9.1
	01/29/97	97.5	12.4	8.45	15.4
	04/28/97	124	14.9	7.86	18.1
Duplicate	04/28/97	133	15.5	8.42	19.0
	07/31/97	30.0	4.00	1.22	7.38
CR-3	01/22/96	ND	ND	ND	ND
CR-8	01/01/95	ND	ND	3.9	5.8
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	0.54
	01/22/96	1.2	ND	0.59	1.8
	04/22/96	1.7	0.98	1.1	2.2
	07/22/96	ND	ND	0.58	1.6
	10/28/96	ND	ND	ND	2.4
	01/29/97	ND	ND	8.94	19.1
	04/25/97	2.48	3.35	4.44	7.01
	07/31/97	ND	ND	ND	ND

COPPOR00005663

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron (continued)			
CR-9	07/31/97	ND	ND	ND	ND
CR-11	01/01/95	94	3.9	2.4	3.4
	04/01/95	110	3.6	5.4	17
	07/01/95	94	4.4	3	9.1
	10/01/95	130	8.5	4.2	8.8
	01/22/96	78	2.3	1.9	4.8
	04/22/96	91	5.2	4	3.8
	07/22/96	92	5.3	12	23
	10/28/96	NS/F	NS/F	NS/F	NS/F
	01/29/97	50.4	ND	13.3	47.9
	04/25/97	32.6	2.01	0.711	ND
	07/31/97	35.2	ND	ND	ND

COPPOR00005664

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX			
MW-1	11/07/90	<5.0	<5.0	6.87	<5.0
MW-5	04/30/91	2.6	<0.5	<0.5	<0.5
MW-6	11/07/90	68	<5.0	<10	<20
MW-7	11/07/90	25	270	408	1,500
	01/01/95	ND	ND	18	30
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/01/96	NS	NS	NS	NS
	07/01/96	NS	NS	NS	NS
	10/28/96	NS	NS	NS	NS
MW-8	11/07/90	38.3	NS/F	-	5.2
	01/01/95	ND	ND	ND	ND
	04/01/95	0.96	ND	ND	ND
	07/01/95	ND	ND	ND	1.1
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	970	64	6.3	20
	07/22/96	1,100	440	39	140
	10/28/96	1,300	2,000	190	900
	01/30/97	134	3.48	37.8	107
	04/24/97	124	3.76	53.6	89.8
	07/30/97	155	6.24	93.8	135

COPPOR00005665

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-10	04/30/91	2.6	<0.5	<0.5	<0.5
	01/01/95	1.7	0.7	ND	1
	04/01/95	ND	ND	ND	1.3
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	1.3
	01/22/96	2.3	0.68	ND	1.1
	04/22/96	6.5	0.88	ND	0.62
	07/22/96	ND	ND	ND	ND
	10/28/96	2.4	ND	ND	ND
	01/30/97	5.05	0.647	ND	1.03
	04/25/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
MW-11	11/07/90	12,000	15,000	1,600	10,000
	01/01/95	8,900	4,500	2,500	11,000
	04/01/95	7,400	4,900	2,500	12,000
	07/01/95	5,400	2,400	2,600	8,000
	10/01/95	7,100	2,800	2,400	8,700
	01/22/96	7,400	4,500	2,100	10,000
	04/22/96	7,000	3,800	2,500	11,000
	07/22/96	4,900	2,000	2,400	8,100
	10/28/96	5,100	2,200	2,200	8,100
	04/24/97	6,860	3,360	2,840	11,300
	07/30/97	6,390	2,630	2,970	10,800
MW-13	11/07/90	<5.0	NS/F	<5.0	<5.0
	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
MW-15	04/24/97	2.40	ND	ND	ND
	07/30/97	9.78	ND	ND	ND
MW-18	04/30/91	<0.5	3.6	2.2	4.4
MW-19	11/07/90	11.3	8.2	23.4	32.9
MW-20	10/28/96	ND	ND	ND	ND

COPPOR00005666

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-21	01/30/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
Duplicate	07/30/97	ND	ND	ND	ND
MW-22	11/07/90	2,600	15,400	5,000	22,000
	01/01/95	2,400	8,100	4,700	16,000
	04/01/95	2,200	7,100	4,500	15,000
	07/01/95	2,000	5,800	4,500	15,000
	10/01/95	2,300	6,300	5,200	19,000
	01/22/96	1,800	5,300	4,100	15,000
	04/22/96	1,900	4,600	4,000	12,000
	07/22/96	2,200	4,300	4,700	15,000
	10/28/96	2,000	3,500	4,200	14,000
Duplicate	10/28/96	1,800	3,400	4,600	15,000
	01/30/97	2,130	3,650	4,680	14,400
	04/24/97	2,400	4,060	4,810	14,000
	07/30/97	1,940	1,950	4,320	13,400
MW-23	05/01/91	140	22	180	130
	01/01/95	72	20	210	180
	04/01/95	150	38	240	140
	07/01/95	99	20	240	140
	10/01/95	120	18	230	120
	01/22/96	32	ND	180	156
	04/22/96	35	16	140	140
Duplicate	04/22/96	ND	ND	ND	ND
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	31	7.3	140	110
	07/30/97	22.3	ND	48.7	57.0
MW-24	11/07/90	<20	NS/F	<10	13

COPPOR00005667

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-26	05/01/91	<10	15	50	61
	01/01/95	1.7	ND	24	33
	04/01/95	8.7	7.3	13	19
	07/01/95	6.4	10	9.6	12
	10/01/95	ND	0.85	1.6	4.9
	01/19/96	ND	ND	ND	ND
	01/22/96	ND	4.2	16	20
Duplicate	01/22/96	ND	ND	ND	ND
	04/22/96	NS	ND	NS	NS
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
	01/30/97	1.73	2.00	9.18	8.66
	04/24/97	2.80	2.48	7.58	7.32
MW-27	05/01/91	83	0.6	<0.5	0.7
MW-28	05/01/91	9.5	26	74	200
	01/01/95	0.9	0.6	8.5	20
	04/01/95	ND	ND	20	15
	07/01/95	7.6	2.7	2.6	7.9
	10/01/95	2.8	2.6	7.2	20
	01/19/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	4.2
	07/22/96	2	0.95	0.73	1.8
	10/28/96	1.2	0.66	1.8	3.2
	01/30/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-31	05/01/91	1.2	<0.5	1.2	1.5
	01/01/95	1.3	1.6	1.2	3.8
	04/01/95	9.3	4.7	0.99	3.1
	07/01/95	2.8	1.3	0.64	1.4
	10/01/95	ND	ND	ND	ND
	01/19/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	2.5	1.1	0.54	1.9
	10/28/96	1.5	ND	ND	ND
	01/30/97	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
MW-32	11/07/90	<5.0	<5.0	<5.0	<20
	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	0.56
	10/28/96	ND	ND	ND	ND
Duplicate	10/28/96	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND

COPPOR00005669

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-33	01/01/95	ND	ND	ND	0.5
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/01/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND
Duplicate	01/30/97	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND
Duplicate	04/24/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND
MW-36	07/01/95	NS	NS	NS	NS
	10/01/95	NS	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND
MW-37	01/01/95	ND	ND	2.2	7.1
	04/01/95	ND	ND	ND	ND
	07/01/95	140	ND	ND	ND
	10/01/95	14	ND	ND	ND
	01/22/96	140	1	ND	1.8
	04/22/96	92	ND	ND	ND
	07/22/96	450	6.4	ND	4.8
	10/28/96	27	ND	ND	ND
	01/30/97	697	56.7	12.6	49.6
	04/24/97	1,680	16.2	28.4	68.6
	07/31/97	1,350	ND	29.2	42.6
MW-39	10/28/96	0.96	ND	1.8	2.4

COPPOR00005670

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-40	04/24/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND
W-4	01/01/88	ND (5.0)	7	ND (0.7)	ND (5.0)
	01/01/89	ND (5)	ND (5)	ND (5)	ND (2)
W-17	01/01/88	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
W-27	01/01/88	ND (5.0)	ND (5.0)	ND (3.0)	ND (5.0)
	01/01/89	23	7	ND (2)	18
W-34	01/01/88	29	11	18	ND (3.0)
	01/01/89	ND (5)	ND (5)	ND (5)	5
W-35	01/01/88	ND (5.0)	ND (2.0)	8	ND (2.0)

COPPOR00005671

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco			
B-2	10/28/96	18	2.9	ND	3.5
B-3	10/28/96	ND	ND	ND	ND
B-4	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS	NS	NS	NS
	10/28/96	NS	NS	NS	NS
	04/25/97	228	8.02	7.36	ND
B-6	01/22/96	240	17	300	120
	07/22/96	270	25	380	120
	10/28/96	180	31	360	130
B-16	01/22/96	590	9.4	11	11
	07/22/96	210	8.7	7.9	9.9
	10/28/96	850	22	16	16
B-17	01/01/95	200	17	4.5	26
	04/01/95	590	17	7.7	16
	07/01/95	670	22	11	20
	10/01/95	830	36	16	43
	01/22/96	550	9.8	11	12
	04/22/96	580	19	12	32
	07/22/96	520	22	12	20
	10/28/96	330	15	10	ND
	01/31/97	280	12.1	9.69	10.1
	04/25/97	698	21.7	17.7	ND
	08/01/97	768	ND	ND	ND

COPPOR00005672

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
B-18	01/01/95	ND	ND	ND	0.6
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
B-22	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	15	1.6	2.3	5.3
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	14	0.93	0.52	0.56
	10/28/96	NS	NS	NS	NS
	04/25/97	20.1	1.62	0.806	ND
B-25	01/22/96	2.4	ND	3.6	1
	10/28/96	ND	ND	ND	ND
B-27	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F

COPPOR00005673

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
B-35	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	11	7.2	1.2	8.3
	10/28/96	NS	NS	NS	NS
	01/31/97	3.35	3.81	ND	2.17
Duplicate	01/31/97	3.87	4.72	ND	2.73
	04/25/97	6.50	8.58	0.790	6.98
	08/01/97	8.25	5.19	ND	ND
B-36	01/01/95	NS	NS	NS	NS
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	480	8.9	8.2	9.6
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
B-37	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	31	0.54	0.72	1.3
	07/22/96	4.5	ND	ND	0.52
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND

COPPOR00005674

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tesco (continued)			
B-40	01/22/96	2.9	1.9	16	7.5
	10/28/96	0.93	1.2	1.3	1.2
RES-N	01/01/95	4	0.6	3.4	4.5
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F
U-2	01/01/95	3.8	ND	4.9	2.9
	04/01/95	0.66	ND	1.2	1.2
	07/01/95	2.6	ND	0.62	4
	10/01/95	6.8	ND	ND	ND
	01/22/96	1.3	ND	2.9	1.2
	04/22/96	ND	ND	ND	ND
	07/22/96	7.5	1.9	10	4.2
	10/28/96	ND	ND	ND	ND
	01/31/97	8.91	ND	42.5	ND
	04/25/97	18.4	1.27	25.4	4.64
Duplicate	04/25/97	20.8	1.36	29.4	3.70
	08/01/97	6.66	ND	3.18	ND
U-3	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	220	7.9	49	26
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	4.77	0.523	ND	ND
	08/01/97	14.9	14.8	ND	5.42
Duplicate	08/01/97	14.8	15.0	ND	5.80

COPPOR00005675

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
U-4	01/01/95	ND	ND	ND	0.6
	04/01/95	ND	ND	ND	ND
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
U-5	01/01/95	15	2	0.5	3
	04/01/95	1.9	1.4	ND	1.7
	07/01/95	2.7	1.2	ND	1.8
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
U-5A	01/01/95	20	6.5	3.7	7.2
	04/01/95	28	7.8	5	20
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS

Notes:

ppb = Parts per billion
ND = Not detected
NS = Not sampled
NS/F = Not sampled floating product present
NA = Not analyzed, not applicable
BTEX by EPA Method 8020

COPPOR00005676

Table 7

Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron																	
B-7	01/01/95	3.4	ND	4.1	0.5	0.7	ND	ND	ND	1.2	ND	59	23	ND	ND	28	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	ND	ND	ND	ND
	10/01/95	4.6	1.1	1.8	0.1	0.12	0.12	0.11	0.1	0.2	ND	0.8	26	ND	ND	23	0.83
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	1.80	ND	0.364	ND	ND	ND	ND	ND	ND	ND	ND	6.38	ND	ND	2.11	ND
	04/28/97	6.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.7	ND	ND	30.2	ND
B-9	01/01/95	ND	ND	0.65	ND	ND	ND	ND	ND	ND	ND	3.3	4.3	ND	ND	0.48	ND
	04/01/95	ND	ND	ND	ND	ND	0.16	0.26	ND	0.37	ND	ND	8.1	0.24	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	ND
	10/01/95	2.9	0.6	0.49	ND	0.13	0.16	0.16	0.12	0.18	ND	0.4	10	0.14	ND	0.94	0.32
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	0.17	0.28	0.43	0.38	0.18	0.34	0.19	0.64	ND	0.33	ND	ND	0.58
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	0.196	0.424	0.553	0.505	0.312	0.569	ND	0.667	ND	0.529	ND	ND	0.813
	01/29/97	1.38	ND	0.325	0.208	0.295	0.380	0.413	0.364	0.425	ND	0.629	4.72	0.349	ND	1.13	0.587
	04/28/97	6.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.4	ND	ND	18.6	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.7	ND	ND	ND	ND

COPPOR00005677

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron (continued)																	
B-10	09/09/93	4	<20	<2	<0.3	0.5	0.5	0.7	<0.3	<0.3	<0.1	<4	9.4	0.5	<1	23	<5
	03/29/94	<2.5	<5.0	0.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	21	6.9	<0.5	<2.5	6.7	<0.5
	01/01/95	1.2	ND	2	0.1	0.2	ND	ND	0.1	0.3	ND	15	7.6	0.2	13	9.4	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	0.11	0.26	ND	ND	ND	ND	ND	5.1	ND	ND	ND	ND
	10/01/95	ND	0.28	0.58	ND	ND	ND	ND	ND	ND	ND	0.52	3.3	ND	ND	4.2	0.39
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	1.35	ND	0.647	0.258	0.334	0.481	0.283	0.409	0.490	ND	0.951	3.71	0.275	ND	4.45	0.924
	04/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.0	ND	ND	20.6	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.2	ND	ND	ND	ND
B-11	01/01/95	ND	ND	0.3	0.2	0.9	0.5	0.3	0.3	0.3	ND	2.1	1.4	0.5	0.9	1.4	0.6
	04/01/95	ND	ND	ND	ND	ND	0.14	0.11	ND	ND	ND	ND	1.8	ND	ND	1.3	ND
	07/01/95	ND	ND	ND	ND	0.15	0.28	0.22	0.11	0.24	ND	ND	ND	0.25	ND	ND	ND
	10/01/95	0.9	0.16	0.14	0.12	0.2	0.32	0.34	0.23	0.25	ND	0.32	1.4	0.27	ND	1.3	0.33
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.2	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	0.1	ND	ND	ND	2.4	ND	ND	ND	ND	4.1
	07/01/96	ND	ND	ND	0.22	0.16	0.17	0.24	ND	0.22	ND	2.4	ND	0.2	ND	ND	3
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	0.758	ND	0.175	0.161	0.240	0.321	0.317	0.267	0.297	ND	0.398	1.24	0.245	29.1	1.26	0.457
	04/28/97	0.686	ND	0.105	ND	ND	ND	ND	ND	ND	ND	ND	1.12	ND	1.64	0.852	0.134
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.93	ND	ND	ND	0.196
B-13	01/22/96	ND	ND	ND	0.4	0.49	0.67	0.76	0.34	0.97	ND	1.7	ND	0.66	21	ND	ND

COPPOR0000567S

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron (continued)																	
B-14	09/09/93	<2	<40	0.3	0.1	<0.1	<0.2	<0.2	<0.1	0.4	<0.1	<1	2.3	<0.1	15	3	<1
Duplicate	09/09/93	<2	<40	0.3	<0.1	<0.1	<0.2	<0.2	<0.1	0.3	<0.1	<1	1.8	<0.1	8	2.6	0.8
	03/29/94	1.1	4.2	0.4	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	0.9	1.5	<0.1	10	1.6	0.7
	01/01/95	0.6	ND	0.27	0.3	ND	ND	ND	ND	0.7	ND	2.2	2	ND	12	2.7	0.5
	04/01/95	12	ND	ND	0.24	0.15	0.12	ND	ND	0.2	ND	ND	2.3	ND	12	2.2	ND
	07/01/95	ND	ND	ND	0.16	ND	ND	ND	ND	0.13	ND	0.74	ND	ND	9.8	ND	ND
	10/01/95	1	0.17	0.3	0.12	ND	ND	ND	ND	0.12	ND	0.85	1.4	ND	6.7	1.2	0.99
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	01/22/96	ND	ND	ND	0.11	ND	ND	ND	ND	0.36	ND	ND	ND	ND	7.6	ND	ND
	04/22/96	ND	ND	ND	0.21	ND	ND	ND	ND	0.64	ND	2.4	ND	ND	7.6	ND	3.3
Duplicate	04/22/96	ND	ND	ND	0.12	ND	ND	0.13	ND	0.45	ND	1.9	ND	ND	6.3	ND	2.5
	07/01/96	ND	ND	ND	0.13	0.12	ND	0.25	ND	0.15	ND	2.2	ND	ND	12	ND	1.9
Duplicate	07/01/96	ND	ND	ND	ND	0.13	ND	ND	ND	0.12	ND	2	ND	0.12	ND	ND	1.6
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.413	ND	ND	ND	ND	ND
Duplicate	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.472	ND	ND	7.35	ND	ND
	01/29/97	1.19	ND	0.254	0.225	0.229	0.272	0.262	0.242	0.314	ND	0.580	2.54	0.198	68.7	2.39	0.737
Duplicate	01/29/97	0.788	ND	0.377	0.238	0.205	0.205	0.128	0.187	0.307	ND	0.868	2.34	0.121	65.8	3.29	0.941
	04/28/97	0.865	ND	0.198	ND	ND	ND	ND	ND	ND	ND	0.542	1.47	ND	23.7	1.42	0.660
	07/31/97	ND	ND	ND	0.133	ND	ND	ND	ND	0.127	ND	0.660	2.00	ND	5.96	ND	0.802
Duplicate	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.622	1.82	ND	ND	ND	0.666

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Table 7 (continued)

Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron (continued)																	
B-28	09/09/93	<1	<1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<1	<0.1	<0.2
	01/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND
	07/01/95	ND	ND	ND	ND	ND	0.11	0.11	ND	ND	ND	ND	ND	ND	12	ND	ND
	10/01/95	ND	ND	0.17	ND	0.1	0.12	0.12	0.1	0.12	ND	0.17	ND	ND	0.36	ND	0.14
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.9	ND	ND
	01/29/97	ND	ND	ND	ND	0.104	0.110	0.107	ND	0.109	ND	0.127	0.166	ND	30.4	0.281	0.163
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-29	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-30	09/09/93	<1	<1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.1	<0.4	<0.2	<0.1	<1	0.2	0.3
	03/29/94	<0.5	<1.0	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.5	0.11	<0.1
	01/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	0.172	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.219	ND	0.199	0.440	ND
	04/28/97	0.199	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.190	ND	0.345	0.210	0.143
Duplicate	04/28/97	0.246	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.124	0.262	ND	0.399	0.258	0.146
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.183	ND	ND	ND	ND	0.278
CR-3	03/29/94	<0.5	<1.0	<0.05	<0.1	0.1	0.1	0.1	<0.1	<0.1	0.1	0.2	<0.1	0.2	<0.5	0.1	0.2
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron (continued)																	
CR-4	03/29/94	<0.5	<1.0	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	0.1	0.49	<0.1	<0.5	0.08	<0.1
CR-8	03/29/94	0.6	<1.0	0.4	0.4	0.7	0.4	0.8	0.2	0.3	<0.2	1.3	1	0.6	<0.5	1.2	0.9
	01/01/95	ND	ND	0.41	1.9	9.2	3.4	2.6	1.9	2.2	0.4	3	9	5.3	ND	1.4	3.8
	04/01/95	ND	ND	ND	0.18	0.32	0.19	0.38	ND	0.21	ND	0.73	ND	0.24	ND	ND	1.1
	07/01/95	ND	ND	ND	4.4	6.8	6.9	11	3.2	5.7	ND	8.6	ND	9.2	ND	ND	12
	10/01/95	0.28	0.43	0.42	2.5	6.4	4	6.4	2.9	3.3	0.77	5.2	0.42	4.2	ND	0.9	6.3
	01/22/96	ND	ND	ND	0.54	1.9	1.4	2.3	0.56	0.82	ND	1.2	ND	2.1	ND	ND	1.6
	04/22/96	ND	ND	ND	1.1	3	2.1	3.8	1	1.4	2.7	1.7	ND	2.9	ND	ND	2.5
	07/01/96	ND	ND	ND	0.61	1.2	1	1.8	0.38	0.77	ND	0.98	ND	1.2	ND	ND	1.4
	10/28/96	ND	ND	ND	0.398	1.37	0.905	1.73	0.515	0.655	ND	0.938	ND	1.3	ND	ND	1.33
	01/29/97	ND	ND	ND	0.359	0.791	0.602	1.24	0.545	0.514	ND	0.526	ND	0.760	ND	ND	0.950
	04/25/97	ND	ND	0.101	0.502	1.31	0.790	1.36	0.708	0.687	ND	0.809	ND	0.943	ND	0.129	1.24
	07/31/97	ND	ND	ND	0.268	0.640	0.472	0.794	0.216	0.348	ND	0.500	ND	0.510	ND	ND	0.798
CR-9	09/09/93	<1	<1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<1	<0.1	<0.2
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CR-11	03/29/94	1.8	<1.0	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	3.2	6.5	<0.1	<0.5	4	<0.1
	01/01/95	ND	0.6	0.7	ND	ND	ND	ND	ND	ND	ND	0.6	2	ND	ND	1.3	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	0.68	0.17	0.14	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	1.6	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/29/97	0.941	ND	0.185	ND	ND	ND	ND	ND	ND	ND	ND	2.06	ND	ND	1.37	0.109
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.183	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.30	ND	ND	ND	ND

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
							GATX										
MW-1	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	04/30/91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/01/91	2.8	<2.0	0.44	NS	<0.10	<0.10	<0.10	<0.10	2	<0.20	15	9.8	<0.10	<0.50	7.6	<0.1
	01/01/95	ND	ND	5.1	ND	1.9	ND	ND	ND	ND	ND	37	16	ND	ND	19	8.1
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	56	ND	ND	83	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26	ND	ND	76	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
MW-8	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/01/91	<1.0	<1.0	0.056	NS	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.50	0.062	<0.1
	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.11	ND	ND
	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.52	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-9	04/30/91	<1.0	<10.0	<0.05	NS	<0.10	<0.10	<0.12	<0.10	<0.10	<0.20	0.26	<0.10	<0.10	<0.50	0.057	0.29
MW-10	04/30/91	<1.0	<1.0	0.077	NS	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	0.18	<0.10	<0.10	<0.50	<0.05	<0.1
	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-11	11/07/90	<5.0	<5.0	<10.0	<15.0	<40.0	<15.0	<15.0	<15.0	<15.0	<40.0	<10.0	<5.0	<0.30	337	<10.0	<10.0
	01/01/95	2.8	29	0.14	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	190	ND	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	500	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	420	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	450	ND	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	470	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	540	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	280	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230	ND	ND
	04/24/97	0.125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.171	ND	475	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	294	ND	ND
MW-13	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-18	04/30/91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR0000683

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-22	11/07/90	<5.0	<5.0	<10.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	310	<0.05	<0.1
	01/01/95	ND	ND	0.7	ND	ND	ND	ND	ND	ND	ND	0.2	0.3	ND	ND	0.34	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	290	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	440	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	430	ND	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	480	ND	ND
Duplicate	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	440	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	370	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	240	ND	ND
Duplicate	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	260	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	360	ND	ND
	01/30/97	0.298	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.456	ND	352	0.258	ND
	04/24/97	0.182	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.366	ND	311	0.267	ND
	07/30/97	14.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.67	ND	220	ND	ND
MW-23	05/01/91	12	<1.0	<0.05	NS	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	71	38	<0.10	16	30	2.8
	01/01/95	ND	48	2.6	ND	0.6	0.5	ND	ND	0.9	ND	11	11	ND	8.5	11	2.7
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.6	ND	50	ND	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	ND	ND
Duplicate	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/30/97	10.4	ND	ND	0.106	ND	ND	ND	ND	0.203	ND	ND	0.908	ND	ND	ND	ND

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-24	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/01/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/01/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	58	ND	72	ND	ND
	10/01/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26	05/01/91	10	<1.0	1.9	NS	<0.10	<0.10	<0.10	<0.10	3.9	<0.20	44	22	<0.10	26	33	11
	01/01/95	3.4	ND	2.6	ND	ND	ND	ND	ND	ND	ND	1.1	1.3	ND	6.4	2.3	0.3
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	10	2.3	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.3	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22	ND	ND
Duplicate	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/30/97	1.77	ND	0.175	ND	ND	ND	ND	ND	ND	ND	0.299	1.68	ND	8.77	1.36	0.183
	04/24/97	1.57	ND	0.153	ND	ND	ND	ND	ND	ND	ND	0.322	1.46	ND	3.96	0.876	0.149
MW-27	11/07/90	<1.0	<1.0	0.17	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	0.95	3.7	<0.10	<0.50	<0.05	0.28
	05/01/91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-28	11/07/90	18	<1.0	10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	1,000	300	<0.10	8.2	60	59
	05/01/91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/01/95	2.9	6.1	0.94	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	1.2	8.6
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	0.756	ND	0.502	0.220	ND	ND	ND	ND	0.517	ND	0.344	2.10	ND	ND	1.74	0.850
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	ND	ND	ND	ND
MW-29	11/07/90	<1.0	<1.0	0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	2.1	0.42	<0.10	<0.50	0.56	<0.1
MW-31	11/07/90	<1.0	<1.0	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	0.84	<0.10	<0.10	<0.50	1.6	<0.10
	05/01/91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/01/95	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	56	32	ND	ND	46	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.7	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	0.651	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.65	ND	ND	0.356	ND
	04/24/97	0.539	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	ND	ND	0.532	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.509	ND	ND	ND	ND

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-32	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-33	11/07/90	<1.0	<1.0	0.059	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.50	<0.05	0.2
	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-36	11/07/90	<1.0	<1.0	0.055	<0.10	<0.10	<0.10	0.13	<0.10	<0.10	<0.20	0.21	<0.10	<0.10	<0.50	0.088	0.24
	01/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.105	ND
	04/25/97	0.199	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR00005687

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-37	11/07/90	<1.0	<1.0	0.051	<0.10	0.13	<0.10	0.14	<0.10	<0.10	<0.20	0.29	<0.10	<0.10	<0.50	0.3	0.3
	01/01/95	2.2	ND	0.32	0.2	0.2	ND	ND	ND	ND	ND	3.7	4.9	ND	ND	3.2	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	0.36	0.14	ND	ND	ND	20	0.2	ND	7.8	ND
	10/01/95	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	0.1	ND	8	ND
	01/22/96	ND	ND	ND	1.2	2.8	2.3	1.3	1	3.6	ND	ND	ND	1.6	ND	ND	ND
	04/22/96	ND	ND	ND	0.77	0.91	0.85	1	0.44	2.6	ND	ND	ND	0.77	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	0.751	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.102	1.21	ND	ND	0.156	0.166
	04/24/97	ND	ND	0.386	0.552	0.574	0.364	0.361	0.416	0.567	ND	1.31	ND	0.330	ND	2.41	1.65
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.12	ND	ND	ND	ND
MW-40	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-4	01/01/88	ND (10)	NS	ND (10)	NS	NS	NS	NS	NS	ND (10)	NS	NS	ND (10)	NS	NS	ND (10)	ND (10)
	01/01/89	NS	NS	NS	ND (10)	NS	NS	NS	NS	NS	NS	NS	ND (10)	NS	NS	ND (10)	ND (10)
W-17	01/01/88	ND (10)	NS	ND (10)	NS	NS	NS	NS	NS	ND (10)	NS	NS	ND (10)	NS	NS	ND (10)	ND (10)
W-27	01/01/88	ND (3.0)	NS	ND (1.0)	NS	NS	NS	NS	NS	ND (9.0)	NS	NS	ND (4.0)	NS	NS	ND (5.0)	ND (9.0)
	01/01/89	NS	NS	NS	ND (100)	NS	NS	NS	NS	NS	NS	NS	ND (21)	NS	NS	ND (26)	ND (100)
W-34	01/01/88	ND (5.0)	NS	ND (9.0)	NS	NS	NS	NS	NS	ND (3.0)	NS	NS	32	NS	NS	37	ND (4.0)
	01/01/89	NS	NS	NS	ND (6)	NS	NS	NS	NS	NS	NS	NS	ND (13)	NS	NS	ND (5)	ND (11)
W-35	01/01/88	ND (9.0)	NS	ND (9.0)	NS	NS	NS	NS	NS	ND (9.0)	NS	NS	ND (9.0)	NS	NS	ND (9.0)	ND (9.0)

COPPOR00005688

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco																	
B-2	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.7	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-3	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	120	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.8	ND	ND
B-4	01/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/25/97	24.2	ND	20.1	ND	ND	ND	ND	ND	ND	ND	13.3	63.1	ND	ND	141	18.9
B-6	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.9	ND	ND
B-16	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9	ND	ND	6.2	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.21	ND	ND	ND	ND	ND

COPPOR0000689

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
B-17	01/01/95	ND	ND	5.2	1.1	ND	ND	ND	ND	ND	ND	34	23	ND	56	25	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	13	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	ND	34	15	ND
	01/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	22	16	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	0.298	ND	ND	ND	ND	6.57	ND	ND
	01/31/97	10.8	ND	4.46	ND	0.140	0.142	ND	ND	ND	ND	3.04	38.0	ND	ND	66.6	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.0	ND	ND	20.9	ND
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.6	ND	ND	ND	ND
B-18	01/01/95	ND	ND	0.88	ND	ND	ND	ND	ND	ND	ND	7	2.3	ND	ND	3.6	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.68
	01/31/97	0.559	ND	0.290	ND	ND	ND	ND	ND	ND	ND	0.189	1.36	ND	ND	1.86	0.215
	04/25/97	0.308	ND	0.104	ND	ND	ND	ND	ND	ND	ND	ND	0.496	ND	ND	0.390	0.123
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	ND	ND	ND	0.119

COPPOR00005690

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
B-22	01/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.67	ND	ND	7.76	ND
B-25	09/09/93	<1	<1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<1	0.1	<0.2
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-27	01/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F

COPPOR0005691

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
B-35	09/09/93	16	<80	15	9.2	2.9	4.1	<3	1.6	11	<0.3	45	60	1.1	<40	190	<40
	01/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	ND	ND	ND	18	1.9	2.1	2.2	3.8	14	ND	ND	44	ND	25	120	ND
	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/31/97	13.6	ND	9.47	4.38	0.978	1.47	0.106	1.17	4.27	ND	27.4	42.7	0.144	ND	77.3	12.8
Duplicate	01/31/97	19.1	ND	14.4	5.94	1.63	2.68	0.183	2.22	5.60	ND	41.7	56.6	0.237	ND	110	16.9
	04/25/97	5.33	ND	ND	0.571	0.118	0.150	ND	0.134	0.521	ND	ND	14.4	ND	ND	18.0	ND
	08/01/97	ND	ND	ND	1.58	ND	ND	ND	ND	ND	ND	9.62	20.6	ND	ND	ND	5.04
B-36	01/01/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	7.5	ND	ND	ND	ND	5.5	ND	64	ND	ND	ND	ND	76
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.221	ND	ND	0.108	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR00005692

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
B-37	01/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	0.2
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	0.224	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	0.206	ND	ND	ND	ND	ND	0.105	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/97	0.189	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-40	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43.1	32.8
U-2	01/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	ND	ND	3.6	ND	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23	9.8	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	ND	ND	ND	0.12	0.21	0.31	ND	0.15	0.27	ND	0.45	ND	ND	ND	ND	ND
	01/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.3	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	0.516	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.278	0.541	ND	39.8	0.111	0.250
	04/25/97	0.364	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.179	0.873	ND	37.5	0.339	0.235
Duplicate	04/25/97	0.241	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.142	0.562	ND	ND	ND	0.153
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR0000693

Table 7 (continued)

Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
U-3	09/09/93	<1	<2	<0.1	0.9	1.4	1.4	1.3	0.6	1.3	<0.3	1.5	<0.2	1.2	<1	0.8	1.4
	01/01/95	ND	ND	0.9	0.4	ND	0.7	ND	0.3	ND	0.6	ND	0.9	0.9	0.6	0.65	0.8
	04/01/95	ND	ND	ND	1.1	1.6	1.4	1.4	0.71	1.1	0.4	1.8	1.8	2.3	2.2	0.99	1.7
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	0.66	0.74	0.98	0.95	0.52	0.87	ND	ND	ND	0.7	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	0.220	ND	0.155	0.942	1.24	1.41	1.21	1.23	1.20	0.415	1.84	0.263	1.10	ND	0.881	0.923
	04/25/97	ND	ND	ND	ND	0.109	0.104	ND	ND	0.106	ND	0.134	ND	ND	ND	ND	0.144
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
U-4	01/01/95	7	ND	ND	ND	ND	ND	ND	ND	2.3	ND	72	24	ND	ND	44	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F

COPPOR00005694

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
U-5	01/01/95	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	0.4	1	ND	2.5	0.13	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/31/97	3.12	ND	1.43	0.122	ND	ND	ND	ND	0.287	ND	0.543	7.73	ND	ND	8.49	0.672
	04/25/97	1.06	ND	0.326	ND	ND	ND	ND	ND	ND	ND	ND	2.57	ND	ND	1.98	0.213
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.112	4.29	ND	ND	ND	0.149
U-5A	01/01/95	1.8	ND	0.63	ND	ND	ND	ND	ND	ND	ND	2.7	8	ND	1.1	2.6	0.5
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	ND	ND	ND	ND
	07/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0005695

ATTACHMENT A

SAMPLING PROTOCOL

CERTIFIED ANALYTICAL REPORTS

CHAIN-OF-CUSTODY DOCUMENTATION

ATTACHMENT A

Sampling Protocol

The groundwater sampling procedure employed by PACIFIC consists of first measuring depth to water in the well and separate-phase hydrocarbon level and thickness (if present) using a Keck KIR-89 oil/water interface probe. Each well was then purged of a minimum of three casing volumes of water (or until dry) by double diaphragm pump using rigid polyvinyl chloride (PVC) pipe "stinger" system. The stinger system was decontaminated prior to and between uses with an Alconox™-water wash and a water rinse. Groundwater samples were collected using single-use, disposable polyethylene (PE) bailers after the wells recovered to at least 60 percent of the pre-purge static water level. The samples were placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported at 4°C to the selected analytical laboratory. Dissolved metal samples were filtered in the field using a 0.45-micron filter capsule, disposable Tygon® tubing and a peristaltic pump. Purge water was disposed of using facility treatment systems.

COPPOR00005697

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

RECEIVED AUG 2 5 1997

BOTHELL • (425) 481-9200 • FAX 485-2992
SPOKANE • (509) 924-9200 • FAX 924-9290
PORTLAND • (503) 643-9200 • FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-8	P708009-01	Water	7/30/97
MW-10	P708009-02	Water	7/30/97
MW-11	P708009-03	Water	7/30/97
MW-13	P708009-04	Water	7/30/97
MW-15	P708009-05	Water	7/30/97
MW-21	P708009-06	Water	7/30/97
MW-21 (DUP)	P708009-07	Water	7/30/97
MW-22	P708009-08	Water	7/30/97
MW-23	P708009-09	Water	7/30/97
MW-26	P708009-10	Water	7/30/97
MW-28	P708009-11	Water	7/30/97
MW-31	P708009-12	Water	7/30/97
MW-32	P708009-13	Water	7/30/97
MW-33	P708009-14	Water	7/31/97
MW-36	P708009-15	Water	7/31/97
MW-37	P708009-16	Water	7/31/97
MW-40	P708009-17	Water	7/31/97

North Creek Analytical, Inc.

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.

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-8			P708009-01				Water	
Benzene	0870070	8/5/97	8/5/97		1.00	155	ug/l	
Toluene	"	"	"		1.00	6.24	"	
Ethylbenzene	"	"	"		1.00	93.8	"	
Xylenes (total)	"	"	"		2.00	135	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*118*	%	
MW-10			P708009-02				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*100*	%	
MW-11			P708009-03				Water	
Benzene	0870070	8/5/97	8/5/97		50.0	6390	ug/l	
Toluene	"	"	"		50.0	2630	"	
Ethylbenzene	"	"	"		50.0	2970	"	
Xylenes (total)	"	"	"		100	10800	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*111*	%	
MW-13			P708009-04				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*97.6*	%	
MW-15			P708009-05				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	9.78	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*98.4*	%	
MW-21			P708009-06				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions*

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL • (425) 481-9200 • FAX 485-2992
SPOKANE • (509) 924-9200 • FAX 924-9290
PORTLAND • (503) 643-9200 • FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-21 (continued)			**P708009-06**				Water	
Xylenes (total)	0870042	8/4/97	8/4/97		1.00	ND	ug/l	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*98.2*	%	
MW-21 (DUP)			**P708009-07**				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*99.8*	%	
MW-22			**P708009-08**				Water	
Benzene	0870042	8/4/97	8/4/97		50.0	1940	ug/l	
Toluene	"	"	"		50.0	1950	"	
Ethylbenzene	"	"	"		50.0	4320	"	
Xylenes (total)	"	"	"		100	13400	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*99.0*	%	
MW-23			**P708009-09**				Water	
Benzene	0870042	8/4/97	8/4/97		2.50	22.3	ug/l	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	48.7	"	
Xylenes (total)	"	"	"		5.00	57.0	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*101*	%	
MW-28			**P708009-11**				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*92.6*	%	
MW-31			**P708009-12**				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*91.0*	%	

North Creek Analytical, Inc.

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BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-32			P708009-13				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*94.0*	%	
MW-33			P708009-14				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*97.6*	%	
MW-36			P708009-15				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*91.8*	%	
MW-37			P708009-16				Water	
Benzene	0870137	8/7/97	8/7/97		10.0	1350	ug/l	
Toluene	"	"	"		10.0	ND	"	
Ethylbenzene	"	"	"		10.0	29.2	"	
Xylenes (total)	"	"	"		20.0	42.6	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*87.8*	%	
MW-40			P708009-17				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*96.4*	%	

North Creek Analytical, Inc.

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

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SPOKANE • (509) 924-9200 • FAX 924-9290
PORTLAND • (503) 643-9200 • FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-8			P708009-01				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	0.00780	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0111	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-10			P708009-02				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	0.00580	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0745	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0173	"	
Lead	"	"	"	EPA 6020	0.00100	0.00970	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-11			P708009-03				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	0.0443	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0807	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00400	"	
Lead	"	"	"	EPA 6020	0.00100	0.0381	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	0.000250	"	
MW-13			P708009-04				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	0.00620	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.144	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0109	"	
Lead	"	"	"	EPA 6020	0.00100	0.0167	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000440	ND	"	1

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-15			**P708009-05**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.00110**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0847**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00230**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00450**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-21			**P708009-06**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.00270**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.190**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00120**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00230**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-21 (DUP)			**P708009-07**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.00260**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.215**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00120**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00440**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-22			**P708009-08**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0871**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.167**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00260**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0361**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	

North Creek Analytical, Inc.

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BOTHELL • (425) 481-9200 • FAX 485-2992
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Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-23			P708009-09				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.00970**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0244**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00220**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0492**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-28			P708009-11				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.00140**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0266**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00120**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0420**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-31			P708009-12				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0123**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0182**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00120**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0126**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-32			P708009-13				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	ND	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0136**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00160**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00890**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	

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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-33			**P708009-14**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0472**	mg/l	
Barium	"	"	8/13/97	EPA 6020	0.0200	**1.32**	"	
Cadmium	"	"	8/8/97	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00260**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00540**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000880	ND	"	1
MW-36			**P708009-15**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0156**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0590**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00280**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00780**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-37			**P708009-16**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0183**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0453**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00140**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00320**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-40			**P708009-17**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0293**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0424**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.0665**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0725**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000400	**0.000760**	"	1

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Sandra K. Wright, Project Manager

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SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Dissolved Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-13			**P708009-04**				**Water**	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	ND	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0322**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	
MW-21			**P708009-06**				**Water**	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	**0.00300**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.220**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	
MW-21 (DUP)			**P708009-07**				**Water**	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	**0.00260**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.198**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	
MW-23			**P708009-09**				**Water**	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	**0.0100**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0187**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00100**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00120**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	

North Creek Analytical, Inc.

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Dissolved Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-37			P708009-16				Water	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	0.0210	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0453	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	

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SPOKANE • (509) 924-9200 • FAX 924-9290
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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-8			**P708009-01**				**Water**	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*81.4*	%	*2*
MW-10			**P708009-02**				**Water**	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*83.2*	%	*2*

North Creek Analytical, Inc.

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Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

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PORTLAND • (503) 643-9200 • FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-11			**P708009-03**				**Water**	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		25.0	**294**	"	3
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*NR*	%	*4*
MW-13			**P708009-04**				**Water**	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*81.4*	%	*2*

North Creek Analytical, Inc.

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S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-15			**P708009-05**				**Water**	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*88.1*	*%*	*2*
MW-21			**P708009-06**				**Water**	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*82.4*	*%*	*2*

North Creek Analytical, Inc.

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S Wright

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled:	7/30/97 to 7/31/97
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Portland, OR 97223	Project Manager:	Kevin Freeman	Reported:	8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-21 (DUP)			P708009-07				Water	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*80.6*	*%*	*2*
MW-22			P708009-08				Water	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	14.1	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	2.67	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		25.0	220	"	3
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*NR*	*%*	*4*

North Creek Analytical, Inc.

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
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Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-23			**P708009-09**				**Water**	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	**10.4**	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	**0.106**	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	**0.203**	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	**0.908**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*133*	*%*	*7*
MW-28			**P708009-11**				**Water**	
Acenaphthene	0870089	8/5/97	8/14/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	**1.61**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*150*	*%*	*7*

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-31			**P708009-12**				Water	
Acenaphthene	0870089	8/5/97	8/14/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	0.509	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*83.2*	%	*2*
MW-32			**P708009-13**				Water	
Acenaphthene	0870089	8/5/97	8/14/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*30.4*	%	*2*

North Creek Analytical, Inc.

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Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-33			**P708009-14**				**Water**	
Acenaphthene	0870089	8/5/97	8/14/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*84.0*	*%*	*2*
MW-36			**P708009-15**				**Water**	
Acenaphthene	0870089	8/5/97	8/14/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*53.6*	*%*	*2*

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Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-37			**P708009-16**				**Water**	
Acenaphthene	0870089	8/5/97	8/14/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	1.12	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*NR*	*%*	*4*
MW-40			**P708009-17**				**Water**	
Acenaphthene	0870089	8/5/97	8/14/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*71.6*	*%*	*2*

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL • (425) 481-9200 • FAX 485-2992
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PORTLAND • (503) 643-9200 • FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870042	**Date Prepared: 8/4/97**					**Extraction Method: EPA 5030**				
Blank	**0870042-BLK1**									
Benzene	8/4/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*49.0*	"	*75.0-120*	*98.0*			
LCS	**0870042-BS1**									
Benzene	8/4/97	20.0		18.8	ug/l	67.0-130	94.0			
Toluene	"	20.0		18.2	"	75.0-126	91.0			
Ethylbenzene	"	20.0		18.5	"	76.0-124	92.5			
Xylenes (total)	"	60.0		54.8	"	75.0-126	91.3			
Surrogate: 4-BFB	"	*50.0*		*50.6*	"	*75.0-120*	*101*			
Matrix Spike	**0870042-MS1**		**P708009-02**							
Benzene	8/4/97	20.0	ND	19.5	ug/l	67.0-130	97.5			
Toluene	"	20.0	ND	18.8	"	75.0-126	94.0			
Ethylbenzene	"	20.0	ND	19.2	"	76.0-124	96.0			
Xylenes (total)	"	60.0	ND	56.4	"	75.0-126	94.0			
Surrogate: 4-BFB	"	*50.0*		*49.2*	"	*75.0-120*	*98.4*			
Matrix Spike Dup	**0870042-MSD1**		**P708009-02**							
Benzene	8/4/97	20.0	ND	18.9	ug/l	67.0-130	94.5	13.0	3.13	
Toluene	"	20.0	ND	18.3	"	75.0-126	91.5	13.0	2.70	
Ethylbenzene	"	20.0	ND	18.6	"	76.0-124	93.0	15.0	3.17	
Xylenes (total)	"	60.0	ND	55.2	"	75.0-126	92.0	13.0	2.15	
Surrogate: 4-BFB	"	*50.0*		*50.3*	"	*75.0-120*	*101*			
Batch: 0870070	**Date Prepared: 8/5/97**					**Extraction Method: EPA 5030**				
Blank	**0870070-BLK1**									
Benzene	8/5/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*52.1*	"	*75.0-120*	*104*			
LCS	**0870070-BS2**									
Benzene	8/5/97	20.0		21.2	ug/l	67.0-130	106			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL • (425) 481-9200 • FAX 485-2992
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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**0870070-BS2**									
Toluene	8/5/97	20.0		21.2	ug/l	75.0-126	106			
Ethylbenzene	"	20.0		21.9	"	76.0-124	109			
Xylenes (total)	"	60.0		65.2	"	75.0-126	109			
Surrogate: 4-BFB	"	*50.0*		*53.2*	"	*75.0-120*	*106*			
Batch: 0870137	**Date Prepared: 8/7/97**					**Extraction Method: EPA 5030**				
Blank	**0870137-BLK1**									
Benzene	8/7/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*40.9*	"	*75.0-120*	*81.8*			
LCS	**0870137-BS2**									
Benzene	8/7/97	20.0		17.7	ug/l	67.0-130	88.5			
Toluene	"	20.0		18.0	"	75.0-126	90.0			
Ethylbenzene	"	20.0		17.8	"	76.0-124	89.0			
Xylenes (total)	"	60.0		53.6	"	75.0-126	89.3			
Surrogate: 4-BFB	"	*50.0*		*44.4*	"	*75.0-120*	*88.8*			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

S Wright

Sandra K. Wright, Project Manager

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Environmental Laboratory Services

BOTHELL • (425) 481-9200 • FAX 485-2992
SPOKANE • (509) 924-9200 • FAX 924-9290
PORTLAND • (503) 643-9200 • FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870157	**Date Prepared: 8/6/97**				**Extraction Method: EPA 200/3005**					
Blank	**0870157-BLK1**									
Arsenic	8/8/97			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	8/11/97			ND	"	0.00100				
LCS	**0870157-BS1**									
Arsenic	8/8/97	0.100		0.0844	mg/l	80.0-120	84.4			
Barium	"	0.100		0.0975	"	80.0-120	97.5			
Cadmium	"	0.100		0.0870	"	80.0-120	87.0			
Chromium	"	0.100		0.103	"	80.0-120	103			
Lead	"	0.100		0.0954	"	80.0-120	95.4			
Selenium	8/11/97	0.100		0.0888	"	75.0-115	88.8			
Silver	"	0.100		0.100	"	80.0-120	100			
Duplicate	**0870157-DUP1**		**P708009-01**							
Arsenic	8/8/97		0.00780	0.00720	mg/l			20.0	8.00	
Barium	"		0.0111	0.0103	"			20.0	7.48	
Cadmium	"		ND	ND	"			20.0		
Chromium	"		ND	ND	"			20.0		
Lead	"		ND	0.00380	"			20.0		
Selenium	"		ND	ND	"			20.0		
Silver	8/11/97		ND	ND	"			20.0		
Matrix Spike	**0870157-MS1**		**P708009-01**							
Arsenic	8/8/97	0.100	0.00780	0.0892	mg/l	75.0-125	81.4			
Barium	"	0.100	0.0111	0.105	"	75.0-125	93.9			
Cadmium	"	0.100	ND	0.0844	"	75.0-125	84.4			
Chromium	"	0.100	ND	0.104	"	75.0-125	104			
Lead	"	0.100	ND	0.0916	"	75.0-125	91.6			
Selenium	"	0.100	ND	0.0691	"	75.0-125	69.1			6
Silver	8/11/97	0.100	ND	0.101	"	75.0-125	101			
Matrix Spike	**0870157-MS2**		**P708009-12**							
Arsenic	8/8/97	0.100	0.0123	0.0947	mg/l	75.0-125	82.4			

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Refer to end of report for text of notes and definitions.

Sandra K. Wright, Project Manager

NORTH CREEK ANALYTICAL
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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**0870157-MS2**		**P708009-12**							
Barium	8/8/97	0.100	0.0182	0.112	mg/l	75.0-125	**93.8**			
Cadmium	"	0.100	ND	0.0849	"	75.0-125	**84.9**			
Chromium	"	0.100	0.00120	0.105	"	75.0-125	**104**			
Lead	"	0.100	0.0126	0.0974	"	75.0-125	**84.8**			
Selenium	"	0.100	ND	0.0703	"	75.0-125	**70.3**			6
Silver	8/11/97	0.100	ND	0.0991	"	75.0-125	**99.1**			
Batch: 0870279	**Date Prepared: 8/13/09**					**Extraction Method: Metals**				
Blank	**0870279-BLK1**									
Mercury	8/14/97			ND	mg/l	**0.000200**				
LCS	**0870279-BS1**									
Mercury	8/14/97	0.00500		0.00480	mg/l	80.0-120	96.0			
Duplicate	**0870279-DUP1**		**P708009-01**							
Mercury	8/14/97		ND	ND	mg/l			20.0		
Matrix Spike	**0870279-MS1**		**P708009-01**							
Mercury	8/14/97	0.00500	ND	0.00530	mg/l	75.0-125	**106**			
Matrix Spike	**0870279-MS2**		**P708009-11**							
Mercury	8/14/97	0.00500	ND	0.00470	mg/l	75.0-125	**94.0**			

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Dissolved Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870093	**Date Prepared: 8/5/97**				**Extraction Method: Metals**					
Blank	**0870093-BLK1**									
Mercury	8/6/97			ND	mg/l	0.000200				
LCS	**0870093-BS1**									
Mercury	8/6/97	0.00500		0.00450	mg/l	80.0-120	90.0			
Duplicate	**0870093-DUP1**		**P707499-02**							
Mercury	8/6/97		ND	ND	mg/l			20.0		
Matrix Spike	**0870093-MS1**		**P707499-02**							
Mercury	8/6/97	0.00500	ND	0.00490	mg/l	75.0-125	98.0			
Matrix Spike	**0870093-MS2**		**P708008-04**							
Mercury	8/6/97	0.00500	ND	0.00480	mg/l	75.0-125	96.0			
Batch: 0870103	**Date Prepared: 8/5/97**				**Extraction Method: EPA 200/3005**					
Blank	**0870103-BLK1**									
Arsenic	8/12/97			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	"			ND	"	0.00100				
LCS	**0870103-BS1**									
Arsenic	8/12/97	0.100		0.0890	mg/l	80.0-120	89.0			
Barium	"	0.100		0.102	"	80.0-120	102			
Cadmium	"	0.100		0.0973	"	80.0-120	97.3			
Chromium	"	0.100		0.105	"	80.0-120	105			
Lead	"	0.100		0.0959	"	80.0-120	95.9			
Selenium	"	0.100		0.0819	"	75.0-105	81.9			
Silver	"	0.0500		0.0475	"	80.0-120	95.0			
Duplicate	**0870103-DUP1**		**P707499-02**							
Arsenic	8/12/97		0.00420	0.00390	mg/l			20.0	7.41	
Barium	"		0.0682	0.0684	"			20.0	0.293	
Cadmium	"		ND	ND	"			20.0		

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Refer to end of report for text of notes and definitions.

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Dissolved Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	**0870103-DUP1**		**P707499-02**							
Chromium	8/12/97		ND	ND	mg/l			20.0		
Lead	"		ND	ND	"			20.0		
Selenium	"		ND	ND	"			20.0		
Silver	"		ND	ND	"			20.0		
Matrix Spike	**0870103-MS1**		**P707499-02**							
Arsenic	8/12/97	0.100	0.00420	0.0927	mg/l	75.0-125	88.5			
Barium	"	0.100	0.0682	0.160	"	75.0-125	91.8			
Cadmium	"	0.100	ND	0.0933	"	75.0-125	93.3			
Chromium	"	0.100	ND	0.105	"	75.0-125	105			
Lead	"	0.100	ND	0.0888	"	75.0-125	88.8			
Selenium	"	0.100	ND	0.0803	"	75.0-125	80.3			
Silver	"	0.0500	ND	0.0451	"	75.0-125	90.2			

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Refer to end of report for text of notes and definitions.

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870089	**Date Prepared: 8/5/97**					**Extraction Method: EPA 3520/600 Series**				
Blank	**0870089-BLK1**									
Acenaphthene	8/11/97			ND	ug/l	5.00				
Acenaphthylene	"			ND	"	5.00				
Anthracene	"			ND	"	5.00				
Benzo (a) anthracene	"			ND	"	0.100				
Benzo (a) pyrene	"			ND	"	0.100				
Benzo (b) fluoranthene	"			ND	"	0.100				
Benzo (ghi) perylene	"			ND	"	0.100				
Benzo (k) fluoranthene	"			ND	"	0.100				
Chrysene	"			ND	"	0.100				
Dibenzo (a,h) anthracene	"			ND	"	0.100				
Fluoranthene	"			ND	"	0.100				
Fluorene	"			ND	"	0.500				
Indeno (1,2,3-cd) pyrene	"			ND	"	0.100				
Naphthalene	"			ND	"	5.00				
Phenanthrene	"			ND	"	5.00				
Pyrene	"			ND	"	0.100				
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.02*	"	*30.0-100*	*80.8*			*2*
LCS	**0870089-BS1**									
Acenaphthylene	8/11/97	5.00		3.88	ug/l	20.0-124	77.6			
Benzo (k) fluoranthene	"	5.00		4.32	"	20.0-159	86.4			
Pyrene	"	5.00		4.74	"	50.0-150	94.8			
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.22*	"	*30.0-100*	*88.8*			*2*
LCS Dup	**0870089-BSD1**									
Acenaphthylene	8/13/97	5.00		3.80	ug/l	20.0-124	76.0	50.0	2.08	
Benzo (k) fluoranthene	"	5.00		4.40	"	20.0-159	88.0	50.0	1.83	
Pyrene	"	5.00		4.64	"	50.0-150	92.8	50.0	2.13	
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.24*	"	*30.0-100*	*89.6*			*2*

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**Refer to end of report for text of notes and definitions.*

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Notes and Definitions

#	Note
1	The reporting limit for this analyte was raised due to matrix interference.
2	Surrogate value is an estimates.
3	The reporting limit for this analyte was raised due to the high analyte concentration present in the sample.
4	Surrogate recovery is not reportable due to matrix interference.
6	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
7	Surrogate recovery is outside outside control limits due to matrix interference.
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
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical, Inc.

S Wright

Sandra K. Wright, Project Manager

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CHAIN OF CUSTODY REPORT

Work Order # P708009

REPORT TO:	INVOICE TO:
ATTENTION: KEVIN FREEMAN	ATTENTION: ERIC CONRAD
ADDRESS: PEG PORTLAND	ADDRESS:
PHONE: 639-6305 FAX:	P.O. NUMBER: NCA QUOTE #:
PROJECT NAME: WILBRIDGE SHELL/GATX QTR GWATER	
PROJECT NUMBER: 1115-100-2A	
SAMPLED BY: J. CLELAND / CALE FLEMING	

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: (Standard) 7 | 5 | 4 | 3 | 2 | 1 | Same Day
Fuels & Hydrocarbon Analyses: (Standard) 5 | 3-4 | 2 | 1 | Same Day
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

Analysis Request: BTEX 6020 | PAHs (8270 SIM SD) | RCRA METALS (6)

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	BTEX 6020	PAHs (8270 SIM SD)	RCRA METALS (6)	MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
1.	MW-8	7/30/97		X	X	X	W	4	
2.	MW-10			X	X	X		4	
3.	MW-11			X	X	X		4	
4.	MW-13			X	X	2*		5	* TOTAL + DISSOLVED
5.	MW-15			X	X	X		4	
6.	MW-21			X	X	2*		5	* TOTAL + DISSOLVED
7.	MW-21 (DUP)			X	X	2*		5	* TOTAL + DISSO ID
8.	MW-22			X	X	X		4	
9.	MW-23			X	X	2*		~~5~~ 4	* TOTAL + DISSOLVED
10.	MW-26	↓		X	X	X	↓	4	

RELINQUISHED BY: Jaymi Cleland	DATE: 7/30/97	RECEIVED BY: Susan A. Douglas	DATE: 8-1-97
PRINT NAME: JAYMI CLELAND	FIRM: PEG	TIME: 1600	PRINT NAME: Larry Spangler	FIRM: NCA	TIME: 1030
RELINQUISHED BY: Susan A. Douglas	DATE: 8-1-97	RECEIVED BY: Sara McClurg	DATE: 8-1-97
PRINT NAME: Larry Spangler	FIRM: NCA	TIME: 1230	PRINT NAME: Sara McClurg	FIRM: NCA	TIME: 1210

ADDITIONAL REMARKS:

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CHAIN OF CUSTODY REPORT

Work Order # P708009

REPORT TO:
ATTENTION: KEVIN FREEMAN
ADDRESS: PEG
PORTLAND
PHONE: 639-6305 FAX:
PROJECT NAME: WILBRIDGE SHELL/GATX QTR GROUND WATER
PROJECT NUMBER: 1115-100-2A
SAMPLED BY: J. CLELAND / CALE FLEMING

INVOICE TO:
ATTENTION: ERIC CONARD
ADDRESS:
P.O. NUMBER: NCA QUOTE #:

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: 10 (Standard) | 7 | 5 | 4 | 3 | 2 | 1 | Same Day
Fuels & Hydrocarbon Analyses: 5 (Standard) | 3-4 | 2 | 1 | Same Day
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges

Analysis Request:

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	BTEX 8020	PAHS (8070 SIMS)	RCRA METALS (8)	MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
1	MW-28	7/30/97		X	X	X	W	4	
2	MW-31	↓		X	X	X	↓	4	
3	MW-32	↓		X	X	X	↓	4	
4	MW-33	7/31/97		X	X	X	↓	4	
5	MW-36	↓		X	X	X	↓	4	
6	MW-37	↓		X	X	2*	↓	5	* TOTAL + DISSOLVED
7	MW-40	↓		X	X	X	↓	4	
8									
9									
10									

RELINQUISHED BY (Signature): Jaymi Cleland DATE: 7/31/97
PRINT NAME: JAYMI CLELAND FIRM: PEG TIME: 1540

RECEIVED BY (Signature): [signature] DATE: 8-1-97
PRINT NAME: Larry Spangler FIRM: NCA TIME: 1030

RELINQUISHED BY (Signature): [signature] DATE: 8-1-97
PRINT NAME: Larry Spangler FIRM: NCA TIME: 1230

RECEIVED BY (Signature): Sara McClurg DATE: 8-1-97
PRINT NAME: Sara McClurg FIRM: NCA TIME: 1210

ADDITIONAL REMARKS:

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
B-9	P708008-01	Water	7/31/97
B-10	P708008-02	Water	7/31/97
B-11	P708008-03	Water	7/31/97
B-14	P708008-04	Water	7/31/97
B-14(DUP)	P708008-05	Water	7/31/97
B-28	P708008-06	Water	7/31/97
B-30	P708008-07	Water	7/31/97
CR-8	P708008-08	Water	7/31/97
CR-9	P708008-09	Water	7/31/97
CR-11	P708008-10	Water	7/31/97

North Creek Analytical, Inc.

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.

Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-9			P708008-01				Water	
Benzene	0870069	8/5/97	8/5/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	2.22	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*96.4*	%	
B-10			P708008-02				Water	
Benzene	0870117	8/6/97	8/7/97		5.00	52.0	ug/l	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*104*	%	
B-11			P708008-03				Water	
Benzene	0870069	8/5/97	8/5/97		2.50	339	ug/l	
Toluene	"	"	"		2.50	150	"	
Ethylbenzene	"	"	"		2.50	141	"	
Xylenes (total)	"	"	"		5.00	448	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*89.6*	%	
B-14			P708008-04				Water	
Benzene	0870041	8/4/97	8/4/97		2.50	407	ug/l	
Toluene	"	"	"		2.50	37.2	"	
Ethylbenzene	"	"	"		2.50	118	"	
Xylenes (total)	"	"	"		5.00	67.0	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*112*	%	
B-14(DUP)			P708008-05				Water	
Benzene	0870041	8/4/97	8/4/97		2.50	332	ug/l	
Toluene	"	"	"		2.50	32.0	"	
Ethylbenzene	"	"	"		2.50	83.5	"	
Xylenes (total)	"	"	"		5.00	51.0	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*104*	%	
B-28			P708008-06				Water	
Benzene	0870041	8/4/97	8/4/97		0.500	2.19	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	12.5	"	

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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SPOKANE • (509) 924-9200 • FAX 924-9290
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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-28 (continued)			**P708008-06**				**Water**	
Xylenes (total)	0870041	8/4/97	8/4/97		1.00	2.39	ug/l	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*97.0*	%	
B-30			**P708008-07**				**Water**	
Benzene	0870069	8/5/97	8/5/97		0.500	30.0	ug/l	
Toluene	"	"	"		0.500	4.00	"	
Ethylbenzene	"	"	"		0.500	1.22	"	
Xylenes (total)	"	"	"		1.00	7.38	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*94.0*	%	
CR-8			**P708008-08**				**Water**	
Benzene	0870117	8/6/97	8/7/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*105*	%	
CR-9			**P708008-09**				**Water**	
Benzene	0870041	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*97.4*	%	
CR-11			**P708008-10**				**Water**	
Benzene	0870292	8/13/97	8/13/97		2.50	35.2	ug/l	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	ND	"	
Xylenes (total)	"	"	"		5.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*82.8*	%	

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Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-9			P708008-01				Water	
Arsenic	0870116	8/6/97	8/7/97	EPA 6020	0.00100	**0.0204**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.184**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.0214**	"	
Lead	"	"	8/13/97	EPA 6020	0.00100	**0.0310**	"	
Selenium	"	"	8/7/97	EPA 6020	0.00100	ND	"	
Silver	"	"	8/14/97	EPA 6020	0.00200	ND	"	
Mercury	0870278	8/13/97	"	EPA 7470A	0.000200	ND	"	2
B-10			P708008-02				Water	
Arsenic	0870116	8/6/97	8/7/97	EPA 6020	0.00100	**0.0459**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**1.01**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.202**	"	
Lead	"	"	8/13/97	EPA 6020	0.00100	**0.0858**	"	
Selenium	"	"	8/7/97	EPA 6020	0.00100	**0.00240**	"	
Silver	"	"	8/14/97	EPA 6020	0.00200	ND	"	
Mercury	0870278	8/13/97	"	EPA 7470A	0.000440	ND	"	2
B-11			P708008-03				Water	
Arsenic	0870116	8/6/97	8/7/97	EPA 6020	0.00100	**0.0231**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.334**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.0432**	"	
Lead	"	"	8/13/97	EPA 6020	0.00100	**0.0327**	"	
Selenium	"	"	8/7/97	EPA 6020	0.00100	ND	"	
Silver	"	"	8/14/97	EPA 6020	0.00200	ND	"	
Mercury	0870278	8/13/97	"	EPA 7470A	0.000440	ND	"	2
B-14			P708008-04				Water	
Arsenic	0870116	8/6/97	8/7/97	EPA 6020	0.00100	**0.0258**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.101**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00700**	"	
Lead	"	"	8/13/97	EPA 6020	0.00100	**0.0114**	"	
Selenium	"	"	8/7/97	EPA 6020	0.00100	ND	"	
Silver	"	"	8/14/97	EPA 6020	0.00200	ND	"	
Mercury	0870278	8/13/97	"	EPA 7470A	0.000200	ND	"	

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Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-14(DUP)			P708008-05				Water	
Arsenic	0870116	8/6/97	8/7/97	EPA 6020	0.00100	0.0262	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.117	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00890	"	
Lead	"	"	8/13/97	EPA 6020	0.00100	0.0141	"	
Selenium	"	"	8/7/97	EPA 6020	0.00100	ND	"	
Silver	"	"	8/14/97	EPA 6020	0.00200	ND	"	
Mercury	0870278	8/13/97	"	EPA 7470A	0.000200	ND	"	
B-28			P708008-06				Water	
Arsenic	0870116	8/6/97	8/8/97	EPA 6020	0.00100	0.00390	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.216	"	
Cadmium	"	"	"	EPA 6020	0.00100	0.00390	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0202	"	
Lead	"	"	"	EPA 6020	0.00100	0.0359	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00110	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870278	8/13/97	8/14/97	EPA 7470A	0.000440	ND	"	2
B-30			P708008-07				Water	
Arsenic	0870116	8/6/97	8/8/97	EPA 6020	0.00100	0.0226	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.446	"	
Cadmium	"	"	"	EPA 6020	0.00100	0.00340	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0575	"	
Lead	"	"	"	EPA 6020	0.00100	0.0526	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00120	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870278	8/13/97	8/14/97	EPA 7470A	0.000440	ND	"	2
CR-8			P708008-08				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	0.0231	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.166	"	
Cadmium	"	"	"	EPA 6020	0.00100	0.00300	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0113	"	
Lead	"	"	"	EPA 6020	0.00100	0.0295	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870278	8/13/97	8/14/97	EPA 7470A	0.000440	ND	"	2

North Creek Analytical, Inc.

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BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
CR-9			**P708008-09**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0222**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.178**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.0107**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0106**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870278	8/13/97	8/14/97	EPA 7470A	0.000440	ND	"	2
CR-11			**P708008-10**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0681**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.438**	"	
Cadmium	"	"	"	EPA 6020	0.00100	**0.0440**	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.0557**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.149**	"	
Selenium	"	"	"	EPA 6020	0.00100	**0.00140**	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870278	8/13/97	8/14/97	EPA 7470A	0.000440	**0.000616**	"	2

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SPOKANE • (509) 924-9200 • FAX 924-9290
PORTLAND • (503) 643-9200 • FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Dissolved Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-14			P708008-04				Water	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	**0.0265**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0652**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00110**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	
B-14(DUP)			P708008-05				Water	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	**0.0276**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0656**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	
B-30			P708008-07				Water	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	**0.0153**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0616**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	
CR-9			P708008-09				Water	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	**0.00100**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0339**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	

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S Wright
Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL • (425) 481-9200 • FAX 485-2992
SPOKANE • (509) 924-9200 • FAX 924-9290
PORTLAND • (503) 643-9200 • FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-9			P708008-01				Water	3
Acenaphthene	0870153	8/7/97	8/18/97		50.0	ND	ug/l	
Acenaphthylene	"	"	"		50.0	ND	"	
Anthracene	"	"	"		50.0	ND	"	
Benzo (a) anthracene	"	"	"		1.00	ND	"	
Benzo (a) pyrene	"	"	"		1.00	ND	"	
Benzo (b) fluoranthene	"	"	"		1.00	ND	"	
Benzo (ghi) perylene	"	"	"		1.00	ND	"	
Benzo (k) fluoranthene	"	"	"		1.00	ND	"	
Chrysene	"	"	"		1.00	ND	"	
Dibenzo (a,h) anthracene	"	"	"		1.00	ND	"	
Fluoranthene	"	"	"		1.00	ND	"	
Fluorene	"	"	"		5.00	**11.7**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		1.00	ND	"	
Naphthalene	"	"	"		50.0	ND	"	
Phenanthrene	"	"	"		50.0	ND	"	
Pyrene	"	"	8/16/97		1.00	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*79.2*	%	*4*
B-10			P708008-02				Water	3
Acenaphthene	0870153	8/7/97	8/16/97		50.0	ND	ug/l	
Acenaphthylene	"	"	"		50.0	ND	"	
Anthracene	"	"	"		50.0	ND	"	
Benzo (a) anthracene	"	"	"		1.00	ND	"	
Benzo (a) pyrene	"	"	"		1.00	ND	"	
Benzo (b) fluoranthene	"	"	"		1.00	ND	"	
Benzo (ghi) perylene	"	"	"		1.00	ND	"	
Benzo (k) fluoranthene	"	"	"		1.00	ND	"	
Chrysene	"	"	"		1.00	ND	"	
Dibenzo (a,h) anthracene	"	"	"		1.00	ND	"	
Fluoranthene	"	"	"		1.00	ND	"	
Fluorene	"	"	"		5.00	**23.2**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		1.00	ND	"	
Naphthalene	"	"	"		50.0	ND	"	
Phenanthrene	"	"	"		50.0	ND	"	
Pyrene	"	"	"		1.00	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*90.4*	%	*4*

North Creek Analytical, Inc.

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-11			P708008-03				Water	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	**1.93**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	**0.196**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*72.0*	*%*	
B-14			P708008-04				Water	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	**0.133**	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	**0.127**	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	**0.660**	"	
Fluorene	"	"	"		0.500	**2.00**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	**5.96**	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	**0.802**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*70.8*	*%*	

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-14(DUP)			P708008-05				Water	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	**0.622**	"	
Fluorene	"	"	"		0.500	**1.82**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	**0.666**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*76.0*	%	
B-28			P708008-06				Water	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*75.6*	%	

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**Refer to end of report for text of notes and definitions.*

S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-30			P708008-07				Water	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	**0.183**	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	**0.278**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*70.0*	%	
CR-8			P708008-08				Water	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	**0.268**	"	
Benzo (a) pyrene	"	"	"		0.100	**0.640**	"	
Benzo (b) fluoranthene	"	"	"		0.100	**0.472**	"	
Benzo (ghi) perylene	"	"	"		0.100	**0.794**	"	
Benzo (k) fluoranthene	"	"	"		0.100	**0.216**	"	
Chrysene	"	"	"		0.100	**0.348**	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	**0.500**	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	**0.510**	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	**0.798**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*70.4*	%	

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S Wright

Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CR-9			**P708008-09**				**Water**	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*78.4*	*%*	
CR-11			**P708008-10**				**Water**	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	**2.30**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*67.6*	*%*	

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S Wright

Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

BTEX by EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870041	**Date Prepared: 8/4/97**					**Extraction Method: EPA 5030**				
Blank	**0870041-BLK1**									
Benzene	8/4/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*49.7*	"	*75.0-120*	*99.4*			
LCS	**0870041-BS1**									
Benzene	8/4/97	20.0		19.1	ug/l	67.0-130	95.5			
Toluene	"	20.0		20.9	"	75.0-126	104			
Ethylbenzene	"	20.0		20.9	"	76.0-124	104			
Xylenes (total)	"	60.0		60.8	"	75.0-126	101			
Surrogate: 4-BFB	"	*50.0*		*51.3*	"	*75.0-120*	*103*			
Matrix Spike	**0870041-MS1**		**P708008-06**							
Benzene	8/4/97	20.0	2.19	21.8	ug/l	67.0-130	98.0			
Toluene	"	20.0	ND	21.1	"	75.0-126	106			
Ethylbenzene	"	20.0	12.5	32.7	"	76.0-124	101			
Xylenes (total)	"	60.0	2.39	63.0	"	75.0-126	101			
Surrogate: 4-BFB	"	*50.0*		*49.0*	"	*75.0-120*	*98.0*			
Matrix Spike Dup	**0870041-MSD1**		**P708008-06**							
Benzene	8/4/97	20.0	2.19	22.0	ug/l	67.0-130	99.0	13.0	1.02	
Toluene	"	20.0	ND	21.2	"	75.0-126	106	13.0	0	
Ethylbenzene	"	20.0	12.5	32.6	"	76.0-124	100	15.0	0.995	
Xylenes (total)	"	60.0	2.39	63.3	"	75.0-126	102	13.0	0.985	
Surrogate: 4-BFB	"	*50.0*		*49.4*	"	*75.0-120*	*98.8*			
Batch: 0870069	**Date Prepared: 8/5/97**					**Extraction Method: EPA 5030**				
Blank	**0870069-BLK1**									
Benzene	8/5/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*40.2*	"	*75.0-120*	*80.4*			
LCS	**0870069-BS2**									
Benzene	8/5/97	20.0		17.2	ug/l	67.0-130	86.0			

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S Wright

Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project: CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number: 1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager: Kevin Freeman	Reported: 8/20/97 16:03

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**0870069-BS2**									
Toluene	8/5/97	20.0		17.6	ug/l	75.0-126	88.0			
Ethylbenzene	"	20.0		17.7	"	76.0-124	88.5			
Xylenes (total)	"	60.0		52.7	"	75.0-126	87.8			
Surrogate: 4-BFB	"	*50.0*		*45.4*	"	*75.0-120*	*90.8*			
Batch: 0870117	**Date Prepared: 8/6/97**					**Extraction Method: EPA 5030**				
Blank	**0870117-BLK1**									
Benzene	8/6/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*50.2*	"	*75.0-120*	*100*			
LCS	**0870117-BS2**									
Benzene	8/6/97	20.0		20.8	ug/l	67.0-130	104			
Toluene	"	20.0		21.4	"	75.0-126	107			
Ethylbenzene	"	20.0		22.0	"	76.0-124	110			
Xylenes (total)	"	60.0		67.2	"	75.0-126	112			
Surrogate: 4-BFB	"	*50.0*		*52.2*	"	*75.0-120*	*104*			
Batch: 0870292	**Date Prepared: 8/13/97**					**Extraction Method: MeOH Extraction**				
Blank	**0870292-BLK1**									
Napthalene	8/13/97			ND	ug/l					
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*39.1*	"	*75.0-120*	*78.2*			
LCS	**0870292-BS2**									
Benzene	8/13/97	20.0		18.1	ug/l	67.0-130	90.5			
Toluene	"	20.0		17.9	"	75.0-126	89.5			
Ethylbenzene	"	20.0		17.6	"	76.0-124	88.0			
Xylenes (total)	"	60.0		52.4	"	75.0-126	87.3			
Surrogate: 4-BFB	"	*50.0*		*40.7*	"	*75.0-120*	*81.4*			

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870116	**Date Prepared: 8/6/97**					**Extraction Method: EPA 200/3005**				
Blank	**0870116-BLK1**									
Arsenic	8/7/97			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	8/14/97			ND	"	0.00200				
LCS	**0870116-BS1**									
Arsenic	8/7/97	0.100		0.0833	mg/l	80.0-120	83.3			
Barium	"	0.100		0.0926	"	80.0-120	92.6			
Cadmium	8/14/97	0.100		0.0874	"	80.0-120	87.4			
Chromium	"	0.100		0.0995	"	80.0-120	99.5			
Lead	"	0.100		0.0948	"	80.0-120	94.8			
Selenium	8/7/97	0.100		0.0719	"	75.0-115	71.9			5
Silver	8/14/97	0.100		0.0879	"	80.0-120	87.9			
Duplicate	**0870116-DUP1**		**P707489-01**							
Arsenic	8/7/97		ND	ND	mg/l			20.0		
Barium	"		0.0133	0.0129	"			20.0	3.05	
Cadmium	"		ND	ND	"			20.0		
Chromium	"		0.00110	0.00110	"			20.0	0	
Lead	8/12/97		0.0228	0.0201	"			20.0	12.6	
Selenium	8/7/97		ND	ND	"			20.0		
Silver	8/14/97		ND	ND	"			20.0		
Matrix Spike	**0870116-MS1**		**P707489-01**							
Arsenic	8/7/97	0.100	ND	0.0817	mg/l	75.0-125	81.7			
Barium	"	0.100	0.0133	0.103	"	75.0-125	89.7			
Cadmium	"	0.100	ND	0.0821	"	75.0-125	82.1			
Chromium	"	0.100	0.00110	0.0962	"	75.0-125	95.1			
Lead	8/12/97	0.100	0.0228	0.111	"	75.0-125	88.2			
Selenium	8/7/97	0.100	ND	0.0694	"	75.0-125	69.4			6
Silver	8/14/97	0.100	ND	0.0921	"	75.0-125	92.1			
Matrix Spike	**0870116-MS2**		**P707534-01**							
Arsenic	8/8/97	0.100	0.00210	0.0859	mg/l	75.0-125	83.8			

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**0870116-MS2**		**P707534-01**							
Barium	8/8/97	0.100	0.00820	0.102	mg/l	75.0-125	93.8			
Cadmium	"	0.100	ND	0.0801	"	75.0-125	80.1			
Chromium	"	0.100	0.0495	0.150	"	75.0-125	101			
Lead	"	0.100	0.00440	0.0903	"	75.0-125	85.9			
Selenium	"	0.100	ND	0.0663	"	75.0-125	66.3			6
Batch: 0870157	**Date Prepared: 8/6/97**					**Extraction Method: EPA 200/3005**				
Blank	**0870157-BLK1**									
Arsenic	8/8/97			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	8/11/97			ND	"	0.00100				
LCS	**0870157-BS1**									
Arsenic	8/8/97	0.100		0.0844	mg/l	80.0-120	84.4			
Barium	"	0.100		0.0975	"	80.0-120	97.5			
Cadmium	"	0.100		0.0870	"	80.0-120	87.0			
Chromium	"	0.100		0.103	"	80.0-120	103			
Lead	"	0.100		0.0954	"	80.0-120	95.4			
Selenium	8/11/97	0.100		0.0888	"	75.0-115	88.8			
Silver	"	0.100		0.100	"	80.0-120	100			
Duplicate	**0870157-DUP1**		**P708009-01**							
Arsenic	8/8/97		0.00780	0.00720	mg/l			20.0	8.00	
Barium	"		0.0111	0.0103	"			20.0	7.48	
Cadmium	"		ND	ND	"			20.0		
Chromium	"		ND	ND	"			20.0		
Lead	"		ND	0.00380	"			20.0		
Selenium	"		ND	ND	"			20.0		
Silver	8/11/97		ND	ND	"			20.0		
Matrix Spike	**0870157-MS1**		**P708009-01**							
Arsenic	8/8/97	0.100	0.00780	0.0892	mg/l	75.0-125	81.4			
Barium	"	0.100	0.0111	0.105	"	75.0-125	93.9			
Cadmium	"	0.100	ND	0.0844	"	75.0-125	84.4			

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*Refer to end of report for text of notes and definitions

Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Total Metals per EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**0870157-MS1**		**P708009-01**							
Chromium	8/8/97	0.100	ND	0.104	mg/l	75.0-125	**104**			
Lead	"	0.100	ND	0.0916	"	75.0-125	**91.6**			
Selenium	"	0.100	ND	0.0691	"	75.0-125	**69.1**			7
Silver	8/11/97	0.100	ND	0.101	"	75.0-125	**101**			
Matrix Spike	**0870157-MS2**		**P708009-12**							
Arsenic	8/8/97	0.100	0.0123	0.0947	mg/l	75.0-125	**82.4**			
Barium	"	0.100	0.0182	0.112	"	75.0-125	**93.8**			
Cadmium	"	0.100	ND	0.0849	"	75.0-125	**84.9**			
Chromium	"	0.100	0.00120	0.105	"	75.0-125	**104**			
Lead	"	0.100	0.0126	0.0974	"	75.0-125	**84.8**			
Selenium	"	0.100	ND	0.0703	"	75.0-125	**70.3**			7
Silver	8/11/97	0.100	ND	0.0991	"	75.0-125	**99.1**			
Batch: 0870278	**Date Prepared: 8/13/97**					**Extraction Method: Metals**				
Blank	**0870278-BLK1**									
Mercury	8/14/97			ND	mg/l	0.000200				
LCS	**0870278-BS1**									
Mercury	8/14/97	0.00500		0.00410	mg/l	80.0-120	82.0			
Duplicate	**0870278-DUP1**		**P707534-01**							
Mercury	8/14/97		ND	ND	mg/l			20.0		
Matrix Spike	**0870278-MS1**		**P707534-01**							
Mercury	8/14/97	0.00500	ND	0.00500	mg/l	75.0-125	**100**			
Matrix Spike	**0870278-MS2**		**P708008-01**							
Mercury	8/14/97	0.0100	ND	0.00960	mg/l	75.0-125	**96.0**			

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Refer to end of report for text of notes and definitions.

S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Dissolved Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870093	**Date Prepared: 8/5/97**				**Extraction Method: Metals**					
Blank	**0870093-BLK1**									
Mercury	8/6/97			ND	mg/l	0.000200				
LCS	**0870093-BS1**									
Mercury	8/6/97	0.00500		0.00450	mg/l	80.0-120	90.0			
Duplicate	**0870093-DUP1**		**P707499-02**							
Mercury	8/6/97		ND	ND	mg/l			20.0		
Matrix Spike	**0870093-MS1**		**P707499-02**							
Mercury	8/6/97	0.00500	ND	0.00490	mg/l	75.0-125	98.0			
Matrix Spike	**0870093-MS2**		**P708008-04**							
Mercury	8/6/97	0.00500	ND	0.00480	mg/l	75.0-125	96.0			
Batch: 0870103	**Date Prepared: 8/5/97**				**Extraction Method: EPA 200/3005**					
Blank	**0870103-BLK1**									
Arsenic	8/12/97			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	"			ND	"	0.00100				
LCS	**0870103-BS1**									
Arsenic	8/12/97	0.100		0.0890	mg/l	80.0-120	89.0			
Barium	"	0.100		0.102	"	80.0-120	102			
Cadmium	"	0.100		0.0973	"	80.0-120	97.3			
Chromium	"	0.100		0.105	"	80.0-120	105			
Lead	"	0.100		0.0959	"	80.0-120	95.9			
Selenium	"	0.100		0.0819	"	75.0-105	81.9			
Silver	"	0.0500		0.0475	"	80.0-120	95.0			
Duplicate	**0870103-DUP1**		**P707499-02**							
Arsenic	8/12/97		0.00420	0.00390	mg/l			20.0	**7.41**	
Barium	"		0.0682	0.0684	"			20.0	**0.293**	
Cadmium	"		ND	ND	"			20.0		

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Refer to end of report for text of notes and definitions.

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Dissolved Metals per EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	**0870103-DUP1**		**P707499-02**							
Chromium	8/12/97		ND	ND	mg/l			20.0		
Lead	"		ND	ND	"			20.0		
Selenium	"		ND	ND	"			20.0		
Silver	"		ND	ND	"			20.0		
Matrix Spike	**0870103-MS1**		**P707499-02**							
Arsenic	8/12/97	0.100	0.00420	0.0927	mg/l	75.0-125	88.5			
Barium	"	0.100	0.0682	0.160	"	75.0-125	91.8			
Cadmium	"	0.100	ND	0.0933	"	75.0-125	93.3			
Chromium	"	0.100	ND	0.105	"	75.0-125	105			
Lead	"	0.100	ND	0.0888	"	75.0-125	88.8			
Selenium	"	0.100	ND	0.0803	"	75.0-125	80.3			
Silver	"	0.0500	ND	0.0451	"	75.0-125	90.2			

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Refer to end of report for text of notes and definitions.

S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Polynuclear Aromatic Compounds per EPA Method 8310/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870153	**Date Prepared: 8/7/97**					**Extraction Method: EPA 3520/600 Series**				
Blank	**0870153-BLK1**									
Acenaphthene	8/15/97			ND	ug/l	5.00				
Acenaphthylene	"			ND	"	5.00				
Anthracene	"			ND	"	5.00				
Benzo (a) anthracene	"			ND	"	0.100				
Benzo (a) pyrene	"			ND	"	0.100				
Benzo (b) fluoranthene	"			ND	"	0.100				
Benzo (ghi) perylene	"			ND	"	0.100				
Benzo (k) fluoranthene	"			ND	"	0.100				
Chrysene	"			ND	"	0.100				
Dibenzo (a,h) anthracene	"			ND	"	0.100				
Fluoranthene	"			ND	"	0.100				
Fluorene	"			ND	"	0.500				
Indeno (1,2,3-cd) pyrene	"			ND	"	0.100				
Naphthalene	"			ND	"	5.00				
Phenanthrene	"			ND	"	5.00				
Pyrene	"			ND	"	0.100				
Surrogate: 2-Fluorobiphenyl	"	*50.0*		*41.3*	"	*30.0-100*	*82.6*			
LCS	**0870153-BS1**									
Acenaphthylene	8/15/97	20.0		12.8	ug/l	20.0-124	64.0			
Benzo (k) fluoranthene	"	1.00		0.868	"	20.0-159	86.8			
Pyrene	"	1.00		0.802	"	50.0-150	80.2			
Surrogate: 2-Fluorobiphenyl	"	*50.0*		*37.2*	"	*30.0-100*	*74.4*			
LCS Dup	**0870153-BSD1**									
Acenaphthylene	8/15/97	20.0		13.3	ug/l	20.0-124	66.5	50.0	3.83	
Benzo (k) fluoranthene	"	1.00		0.868	"	20.0-159	86.8	50.0	0	
Pyrene	"	1.00		0.840	"	50.0-150	84.0	50.0	4.63	
Surrogate: 2-Fluorobiphenyl	"	*50.0*		*38.6*	"	*30.0-100*	*77.2*			

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**Refer to end of report for text of notes and definitions*

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Pacific Environmental Group - OR	Project: CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number: 1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager: Kevin Freeman	Reported: 8/22/97 14:56

Notes and Definitions

#	Note
1	Surrogate recovery is outside control limits due to matrix interference.
2	The reporting limit for this analyte was raised due to matrix interference.
3	Reporting limits raised due to matrix interference and/or dilution necessary for analysis.
4	Surrogate quantitation is an estimate.
5	The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
6	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
7	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already 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
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical, Inc.

Sandra K. Wright, Project Manager

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CHEVRON U.S.A., Inc. CHAIN OF CUSTODY REPORT

1770800 8

CHEVRON INFORMATION

CHEVRON Facility #:

Facility Address:

City, State, ZIP:

CHEVRON Contact Name: ~~RENE WHITE~~

CHEVRON Telephone #:

Laboratory Release #:

CONSULTANT INFORMATION

Name: PEG Consultant Project #: 1115-200.2A

Address: PORTLAND

Phone: 639-6305 Fax: 639-7487

Project Manager: K. FREEMAN Consultant Project #:

Sample Collection by: J. CLELAND Airbill #:

Turnaround Times

Standard Analyses (DAYS): 10

RUSH Analyses (HOURS): 24 | 48

RUSH Analyses (DAYS): 5

O Oregon O Washington O Alaska O Other - Hydrocarbon Methods

	SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W,S,O,A)	# OF CONTAINERS	TPH-HCID	TPH-Gas	BTEX (EPA 8020 Mod.)	TPH-Gas + BTEX	TPH-Diesel	TPH-Diesel Extended	TPH-418.1	Halogen. Volatiles (EPA 8010)	Aromatic Volatiles (EPA 8020)	Pesticides/PCBs or PCBs Only	GC/MS Volatiles (EPA 8240/8260)	GC/MS Semi-Vols. (EPA 8270) PAHs	PAHs by HPLC (EPA 8310)	Lead	Total or Dissolved	PCRA-Metals (8) RCRA	NCA Sample Number	REMARKS
1	B-9	7/31/97	W	4			X									X				X		
2	B-10			4			X									X				X		
3	B-11			4			X									X				X		
4	B-14			5			X									X				2		TOTAL + DIS.
5	B-14 (DUP)			5			X									X				2		TOTAL + DIS.
6	B-28			4			X									X				X		
7	B-30			5			X									X				2		TOTAL + DIS.
8	CR-8			4			X									X				X		
9	CR-9			5			X									X				2		TOTAL + DIS.
10	CR-11	↓	↓	4			X									X				X		

	Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time
1		PEG	7/31/97 1640		NCA	8-1-97 1030
2		NCA	8-1-97 1230	Sara McClurg	NCA	8-1-97 1210

REPORTS: Level 1 Level 2

SAMPLE PRESERVATION (Iced): Yes No

Fax Copy of Lab Report & COC to CHEVRON: Yes No

Page 1 of 1

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
B-17	P708080-01	Water	8/1/97
B-18	P708080-02	Water	8/1/97
B-35	P708080-03	Water	8/1/97
B-36	P708080-04	Water	8/1/97
B-37	P708080-05	Water	8/1/97
U-2	P708080-06	Water	8/1/97
U-3	P708080-07	Water	8/1/97
U-3 DUP	P708080-08	Water	8/1/97
U-5	P708080-09	Water	8/1/97

North Creek Analytical, Inc.

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.

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-17			**P708080-01**				**Water**	
Benzene	0870117	8/6/97	8/6/97		5.00	768	ug/l	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*114*	%	
B-18			**P708080-02**				**Water**	
Benzene	0870154	8/7/97	8/7/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*102*	%	
B-35			**P708080-03**				**Water**	
Benzene	0870154	8/7/97	8/7/97		0.500	8.25	ug/l	
Toluene	"	"	"		0.500	5.19	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*97.6*	%	
B-36			**P708080-04**				**Water**	
Benzene	0870076	8/5/97	8/5/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*95.6*	%	
B-37			**P708080-05**				**Water**	
Benzene	0870117	8/6/97	8/6/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*100*	%	
U-2			**P708080-06**				**Water**	
Benzene	0870076	8/5/97	8/5/97		0.500	6.66	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	3.18	"	

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
U-2 (continued)			**P708080-06**				**Water**	
Xylenes (total)	0870076	8/5/97	8/5/97		1.00	ND	ug/l	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*101*	%	
U-3			**P708080-07**				**Water**	
Benzene	0870076	8/5/97	8/5/97		0.500	14.9	ug/l	
Toluene	"	"	"		0.500	14.8	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	5.42	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*94.0*	%	
U-3 DUP			**P708080-08**				**Water**	
Benzene	0870076	8/5/97	8/5/97		0.500	14.8	ug/l	
Toluene	"	"	"		0.500	15.0	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	5.80	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*92.2*	%	
U-5			**P708080-09**				**Water**	
Benzene	0870117	8/6/97	8/6/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*122*	%	*1*

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Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-17			P708080-01				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	0.0527	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.255	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0177	"	
Lead	"	"	"	EPA 6020	0.00100	0.141	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00130	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	ND	"	
B-18			P708080-02				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	0.0256	mg/l	
Barium	"	"	8/11/97	EPA 6020	0.0200	1.40	"	
Cadmium	"	"	8/8/97	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.148	"	
Lead	"	"	"	EPA 6020	0.00100	0.0465	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00320	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	0.000830	"	
B-35			P708080-03				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	0.0360	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0825	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00400	"	
Lead	"	"	"	EPA 6020	0.00100	0.00960	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	ND	"	
B-36			P708080-04				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	0.00750	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0574	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0105	"	
Lead	"	"	"	EPA 6020	0.00100	0.00210	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	ND	"	

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Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-37			P708080-05				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	**0.0669**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.198**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.0176**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00750**	"	
Selenium	"	"	"	EPA 6020	0.00100	**0.00100**	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	ND	"	
U-2			P708080-06				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	**0.0102**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0407**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00170**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0329**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	ND	"	
U-3			P708080-07				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	**0.0365**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.331**	"	
Cadmium	"	"	"	EPA 6020	0.00100	**0.00180**	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.0986**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.127**	"	
Selenium	"	"	"	EPA 6020	0.00100	**0.00170**	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	**0.000290**	"	
U-3 DUP			P708080-08				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	**0.0312**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.980**	"	
Cadmium	"	"	"	EPA 6020	0.00100	**0.00180**	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.0994**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0581**	"	
Selenium	"	"	"	EPA 6020	0.00100	**0.00230**	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	**0.000210**	"	

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Sandra K. Wright, Project Manager

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
U-5			P708080-09				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	**0.00890**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0783**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00990**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0499**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	ND	"	

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SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Dissolved Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-17			**P708080-01**				**Water**	
Arsenic	0870176	8/7/97	8/8/97	EPA 6020	0.00100	**0.0441**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0962**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00100**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00340**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870093	8/5/97	8/6/97	EPA 7470A	0.000200	ND	"	
B-37			**P708080-05**				**Water**	
Arsenic	0870176	8/7/97	8/8/97	EPA 6020	0.00100	**0.0317**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0604**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00590**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870093	8/5/97	8/6/97	EPA 7470A	0.000200	ND	"	
U-3			**P708080-07**				**Water**	
Arsenic	0870176	8/7/97	8/8/97	EPA 6020	0.00100	**0.0239**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0895**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00100**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00110**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870093	8/5/97	8/6/97	EPA 7470A	0.000200	ND	"	
U-3 DUP			**P708080-08**				**Water**	
Arsenic	0870176	8/7/97	8/8/97	EPA 6020	0.00100	**0.0258**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0908**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00100**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00110**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870093	8/5/97	8/6/97	EPA 7470A	0.000200	**0.000330**	"	

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Sandra K. Wright, Project Manager

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PORTLAND • (503) 643-9200 • FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-17			**P708080-01**				**Water**	**2**
Acenaphthene	0870153	8/7/97	8/16/97		50.0	ND	ug/l	
Acenaphthylene	"	"	"		50.0	ND	"	
Anthracene	"	"	"		50.0	ND	"	
Benzo (a) anthracene	"	"	"		1.00	ND	"	
Benzo (a) pyrene	"	"	"		1.00	ND	"	
Benzo (b) fluoranthene	"	"	"		1.00	ND	"	
Benzo (ghi) perylene	"	"	"		1.00	ND	"	
Benzo (k) fluoranthene	"	"	"		1.00	ND	"	
Chrysene	"	"	"		1.00	ND	"	
Dibenzo (a,h) anthracene	"	"	"		1.00	ND	"	
Fluoranthene	"	"	"		1.00	ND	"	
Fluorene	"	"	"		5.00	**13.6**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		1.00	ND	"	
Naphthalene	"	"	"		50.0	ND	"	
Phenanthrene	"	"	"		50.0	ND	"	
Pyrene	"	"	"		1.00	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*84.4*	%	
B-18			**P708080-02**				**Water**	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	**1.04**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	**0.119**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*67.8*	%	

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-35			**P708080-03**				**Water**	2
Acenaphthene	0870153	8/7/97	8/16/97		50.0	ND	ug/l	
Acenaphthylene	"	"	"		50.0	ND	"	
Anthracene	"	"	"		50.0	ND	"	
Benzo (a) anthracene	"	"	"		1.00	**1.58**	"	
Benzo (a) pyrene	"	"	"		1.00	ND	"	
Benzo (b) fluoranthene	"	"	"		1.00	ND	"	
Benzo (ghi) perylene	"	"	"		1.00	ND	"	
Benzo (k) fluoranthene	"	"	"		1.00	ND	"	
Chrysene	"	"	"		1.00	ND	"	
Dibenzo (a,h) anthracene	"	"	"		1.00	ND	"	
Fluoranthene	"	"	"		1.00	**9.62**	"	
Fluorene	"	"	"		5.00	**20.6**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		1.00	ND	"	
Naphthalene	"	"	"		50.0	ND	"	
Phenanthrene	"	"	"		50.0	ND	"	
Pyrene	"	"	"		1.00	**5.04**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*73.0*	%	
B-36			**P708080-04**				**Water**	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*65.0*	%	

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-37			**P708080-05**				**Water**	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*74.4*	%	
U-2			**P708080-06**				**Water**	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*66.0*	%	

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**Refer to end of report for text of notes and definitions*

Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
U-3			P708080-07				Water	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*69.2*	%	
U-3 DUP			P708080-08				Water	
Acenaphthene	0870153	8/7/97	8/16/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*68.0*	%	

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**Refer to end of report for text of notes and definitions.*

S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
U-5			P708080-09				Water	
Acenaphthene	0870153	8/7/97	8/16/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	**0.112**	"	
Fluorene	"	"	"		0.500	**4.29**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	**0.149**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*81.0*	%	

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled:	8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received:	8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported:	8/22/97 12:20

BTE Kaper EPA Method 8020A Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870076	**Date Prepared: 8/5/97**				**Extraction Method: EPA 5030**					
Blank	**0870076-BLK1**									
Benzene	8/5/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*49.0*	"	*75.0-120*	*98.0*			
LCS	**0870076-BS1**									
Benzene	8/5/97	20.0		19.7	ug/l	67.0-130	98.5			
Toluene	"	20.0		20.9	"	75.0-126	104			
Ethylbenzene	"	20.0		20.3	"	76.0-124	101			
Xylenes (total)	"	60.0		59.3	"	75.0-126	98.8			
Surrogate: 4-BFB	"	*50.0*		*49.4*	"	*75.0-120*	*98.8*			
Matrix Spike	**0870076-MS1**		**P708048-03**							
Benzene	8/5/97	20.0	3.38	23.6	ug/l	67.0-130	101			
Toluene	"	20.0	0.887	22.7	"	75.0-126	109			
Ethylbenzene	"	20.0	ND	21.5	"	76.0-124	108			
Xylenes (total)	"	60.0	ND	63.7	"	75.0-126	106			
Surrogate: 4-BFB	"	*50.0*		*48.9*	"	*75.0-120*	*97.8*			
Matrix Spike Dup	**0870076-MSD1**		**P708048-03**							
Benzene	8/5/97	20.0	3.38	23.8	ug/l	67.0-130	102	13.0	0.985	
Toluene	"	20.0	0.887	22.9	"	75.0-126	110	13.0	0.913	
Ethylbenzene	"	20.0	ND	21.6	"	76.0-124	108	15.0	0	
Xylenes (total)	"	60.0	ND	64.0	"	75.0-126	107	13.0	0.939	
Surrogate: 4-BFB	"	*50.0*		*49.6*	"	*75.0-120*	*99.2*			
Batch: 0870117	**Date Prepared: 8/6/97**				**Extraction Method: EPA 5030**					
Blank	**0870117-BLK1**									
Benzene	8/6/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*50.2*	"	*75.0-120*	*100*			
LCS	**0870117-BS2**									
Benzene	8/6/97	20.0		20.8	ug/l	67.0-130	104			

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Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101 Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

BTEX per EPA Method 8020 Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**0870117-BS2**									
Toluene	8/6/97	20.0		21.4	ug/l	75.0-126	107			
Ethylbenzene	"	20.0		22.0	"	76.0-124	110			
Xylenes (total)	"	60.0		67.2	"	75.0-126	112			
Surrogate: 4-BFB	"	*50.0*		*52.2*	"	*75.0-120*	*104*			
Batch: 0870154	**Date Prepared: 8/7/97**					**Extraction Method: EPA 5030**				
Blank	**0870154-BLK1**									
Benzene	8/7/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*48.0*	"	*75.0-120*	*96.0*			
LCS	**0870154-BS1**									
Benzene	8/7/97	20.0		18.5	ug/l	67.0-130	92.5			
Toluene	"	20.0		18.0	"	75.0-126	90.0			
Ethylbenzene	"	20.0		18.1	"	76.0-124	90.5			
Xylenes (total)	"	60.0		54.3	"	75.0-126	90.5			
Surrogate: 4-BFB	"	*50.0*		*49.5*	"	*75.0-120*	*99.0*			

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Total Metals per EPA 3000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870167	**Date Prepared: 8/7/97**				**Extraction Method: Metals**					
Blank	**0870167-BLK1**									
Mercury	8/8/97			ND	mg/l	0.000200				
LCS	**0870167-BS1**									
Mercury	8/8/97	0.00500		0.00510	mg/l	80.0-120	102			
Duplicate	**0870167-DUP1**		**P708084-02**							
Mercury	8/8/97		0.000690	0.000540	mg/l			20.0	24.4	3
Matrix Spike	**0870167-MS1**		**P708084-02**							
Mercury	8/8/97	0.00500	0.000690	0.00540	mg/l	75.0-125	94.2			
Matrix Spike	**0870167-MS2**		**P708125-01**							
Mercury	8/8/97	0.00500	ND	0.00520	mg/l	75.0-125	104			
Batch: 0870174	**Date Prepared: 8/7/97**				**Extraction Method: EPA 200/3005**					
Blank	**0870174-BLK1**									
Arsenic	8/8/97			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	8/11/97			ND	"	0.00100				
LCS	**0870174-BS1**									
Arsenic	8/8/97	0.100		0.0964	mg/l	80.0-120	96.4			
Barium	"	0.100		0.0963	"	80.0-120	96.3			
Cadmium	"	0.100		0.0985	"	80.0-120	98.5			
Chromium	"	0.100		0.0977	"	80.0-120	97.7			
Lead	"	0.100		0.0978	"	80.0-120	97.8			
Selenium	"	0.100		0.101	"	75.0-115	101			
Silver	8/11/97	0.0500		0.0571	"	80.0-120	114			
Duplicate	**0870174-DUP1**		**P708125-01**							
Arsenic	8/8/97		0.00310	0.00320	mg/l			20.0	3.17	
Barium	"		0.0745	0.0778	"			20.0	4.33	
Cadmium	"		ND	ND	"			20.0		

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Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	**0870174-DUP1**		**P708125-01**							
Chromium	8/8/97		ND	ND	mg/l			20.0		
Lead	"		0.00870	0.00880	"			20.0	1.14	
Selenium	"		0.0970	0.0977	"			20.0	0.719	
Silver	8/11/97		ND	ND	"			20.0		
Matrix Spike	**0870174-MS1**		**P708125-01**							
Arsenic	8/8/97	0.100	0.00310	0.107	mg/l	75.0-125	104			
Barium	"	0.100	0.0745	0.175	"	75.0-125	100			
Cadmium	"	0.100	ND	0.0941	"	75.0-125	94.1			
Chromium	"	0.100	ND	0.105	"	75.0-125	105			
Lead	"	0.100	0.00870	0.0970	"	75.0-125	88.3			
Selenium	"	0.100	0.0970	0.224	"	75.0-125	127			4
Silver	8/11/97	0.0500	ND	0.0275	"	75.0-125	55.0			4
Matrix Spike	**0870174-MS2**		**P708040-01**							
Arsenic	8/8/97	0.100	ND	0.0894	mg/l	75.0-125	89.4			
Barium	"	0.100	0.00900	0.107	"	75.0-125	98.0			
Cadmium	"	0.100	ND	0.0860	"	75.0-125	86.0			
Chromium	"	0.100	0.00180	0.110	"	75.0-125	108			
Lead	"	0.100	0.00710	0.106	"	75.0-125	98.9			
Selenium	"	0.100	ND	0.0724	"	75.0-125	72.4			4
Silver	8/11/97	0.0500	ND	0.0478	"	75.0-125	95.6			

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Sandra K. Wright, Project Manager

18939 120th Avenue N.E. Suite 101, Bothell, WA 98011 9508
East 11115 Montgomery, Suite B, Spokane, WA 99206 4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

BOTHELL • (425) 481-9200 • FAX 485-2992
SPOKANE • (509) 924-9200 • FAX 924-9290
PORTLAND • (503) 643-9200 • FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Dissolved Metals per EPA 6000/7000 Series Methods/Other Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870093	**Date Prepared: 8/5/97**					**Extraction Method: Metals**				
Blank	**0870093-BLK1**									
Mercury	8/6/97			ND	mg/l	**0.000200**				
LCS	**0870093-BS1**									
Mercury	8/6/97	0.00500		0.00450	mg/l	80.0-120	90.0			
Duplicate	**0870093-DUP1**		**P707499-02**							
Mercury	8/6/97		ND	ND	mg/l			20.0		
Matrix Spike	**0870093-MS1**		**P707499-02**							
Mercury	8/6/97	0.00500	ND	0.00490	mg/l	75.0-125	**98.0**			
Matrix Spike	**0870093-MS2**		**P708008-04**							
Mercury	8/6/97	0.00500	ND	0.00480	mg/l	75.0-125	**96.0**			
Batch: 0870176	**Date Prepared: 8/7/97**					**Extraction Method: EPA 200/3005**				
Blank	**0870176-BLK1**									
Arsenic	8/7/97			ND	mg/l	**0.00100**				
Barium	"			ND	"	**0.00200**				
Cadmium	"			ND	"	**0.00100**				
Chromium	"			ND	"	**0.00100**				
Lead	"			ND	"	**0.00100**				
Selenium	"			ND	"	**0.00100**				
Silver	8/11/97			ND	"	**0.00100**				
LCS	**0870176-BS1**									
Arsenic	8/7/97	0.100		0.100	mg/l	80.0-120	100			
Barium	"	0.100		0.0975	"	80.0-120	97.5			
Cadmium	"	0.100		0.102	"	80.0-120	102			
Chromium	"	0.100		0.0938	"	80.0-120	93.8			
Lead	"	0.100		0.0985	"	80.0-120	98.5			
Selenium	"	0.100		0.107	"	80.0-110	107			
Silver	8/11/97	0.0500		0.0561	"	80.0-120	112			
Duplicate	**0870176-DUP1**		**P708119-01**							
Arsenic	8/7/97		0.00120	0.00120	mg/l			20.0	0	
Barium	"		0.194	0.201	"			20.0	3.54	
Cadmium	"		ND	ND	"			20.0		

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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Dissolved Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	**0870176-DUP1**		**P708119-01**							
Chromium	8/7/97		ND	ND	mg/l			20.0		
Lead	"		ND	ND	"			20.0		
Selenium	"		ND	ND	"			20.0		
Silver	8/11/97		ND	ND	"			20.0		
Matrix Spike	**0870176-MS1**		**P708119-01**							
Arsenic	8/7/97	0.100	0.00120	0.0931	mg/l	75.0-125	91.9			
Barium	"	0.100	0.194	0.294	"	75.0-125	100			
Cadmium	"	0.100	ND	0.0904	"	75.0-125	90.4			
Chromium	"	0.100	ND	0.0947	"	75.0-125	94.7			
Lead	"	0.100	ND	0.0849	"	75.0-125	84.9			
Selenium	"	0.100	ND	0.0864	"	75.0-125	86.4			
Silver	8/11/97	0.0500	ND	0.0486	"	75.0-125	97.2			
Matrix Spike	**0870176-MS2**		**P708104-03**							
Arsenic	8/8/97	0.100	ND	0.0875	mg/l	75.0-125	87.5			
Barium	"	0.100	0.0195	0.120	"	75.0-125	100			
Cadmium	"	0.100	ND	0.0880	"	75.0-125	88.0			
Chromium	"	0.100	0.00100	0.110	"	75.0-125	109			
Lead	"	0.100	ND	0.0919	"	75.0-125	91.9			
Selenium	"	0.100	ND	0.0731	"	75.0-125	73.1			4
Silver	8/11/97	0.0500	ND	0.0536	"	75.0-125	107			

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

Sandra K. Wright, Project Manager

18939 120th Avenue N.E. Suite 101 Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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NORTH CREEK ANALYTICAL
Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Polynuclear Aromatic Compounds per EPA Method 8310/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870153	**Date Prepared: 8/7/97**					**Extraction Method: EPA 3520/600 Series**				
Blank	**0870153-BLK1**									
Acenaphthene	8/15/97			ND	ug/l	5.00				
Acenaphthylene	"			ND	"	5.00				
Anthracene	"			ND	"	5.00				
Benzo (a) anthracene	"			ND	"	0.100				
Benzo (a) pyrene	"			ND	"	0.100				
Benzo (b) fluoranthene	"			ND	"	0.100				
Benzo (ghi) perylene	"			ND	"	0.100				
Benzo (k) fluoranthene	"			ND	"	0.100				
Chrysene	"			ND	"	0.100				
Dibenzo (a,h) anthracene	"			ND	"	0.100				
Fluoranthene	"			ND	"	0.100				
Fluorene	"			ND	"	0.500				
Indeno (1,2,3-cd) pyrene	"			ND	"	0.100				
Naphthalene	"			ND	"	5.00				
Phenanthrene	"			ND	"	5.00				
Pyrene	"			ND	"	0.100				
Surrogate: 2-Fluorobiphenyl	"	*50.0*		*41.3*	"	*30.0-100*	*82.6*			
LCS	**0870153-BS1**									
Acenaphthylene	8/15/97	20.0		12.8	ug/l	20.0-124	64.0			
Benzo (k) fluoranthene	"	1.00		0.868	"	20.0-159	86.8			
Pyrene	"	1.00		0.802	"	50.0-150	80.2			
Surrogate: 2-Fluorobiphenyl	"	*50.0*		*37.2*	"	*30.0-100*	*74.4*			
LCS Dup	**0870153-BSD1**									
Acenaphthylene	8/15/97	20.0		13.3	ug/l	20.0-124	66.5	50.0	3.83	
Benzo (k) fluoranthene	"	1.00		0.868	"	20.0-159	86.8	50.0	0	
Pyrene	"	1.00		0.840	"	50.0-150	84.0	50.0	4.63	
Surrogate: 2-Fluorobiphenyl	"	*50.0*		*38.6*	"	*30.0-100*	*77.2*			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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NORTH CREEK ANALYTICAL
Environmental Laboratory Services

BOTHELL • (425) 481-9200 • FAX 485-2992
SPOKANE • (509) 924-9200 • FAX 924-9290
PORTLAND • (503) 643-9200 • FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Notes and Definitions

#	Note
1	Surrogate recovery is outside control limits due to matrix interference.
2	Reporting limits raised due to matrix interference and/or dilution necessary for analysis.
3	Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
4	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical, Inc.

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

12.90

NORTH CREEK ANALYTICAL
18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

UNOCAL CHAIN OF CUSTODY REPORT

UNOCAL INFORMATION

Facility Number:
Site Address: WILBRIDGE FACILITY
City, State, ZIP: PORTLAND, OR
Site Release Number:
Unocal Manager: MARTIN CRAMER
CERT INFO: (check one) o Evaluation o Remediation
o Detection o Demolition o Closure o Miscellaneous

CONSULTANT INFORMATION

Firm: PEG Project Number: 1115-300.2A
Address: PORTLAND, OR
Phone: 639-6305 Fax:
Project Manager: KEVIN FREEMAN
Sample Collection by: J. CLELAND

Chain of Custody Record #: P708080

Quality Assurance Data Level: [A] [B]
A: Standard Summary
B: Standard + Chromatograms

Laboratory Turnaround Days: [10] [5] [3] [2] [1]

o Oregon o Washington Hydrocarbon Methods

SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W,S,O)	# OF CONTAINERS	TPH-HCID	TPH-Gas	BTEX (EPA 8020 Mod.)	TPH-Gas + BTEX	TPH-Diesel	TPH-Diesel Extended	TPH-418.1	Halogen. Volatiles (EPA 8010)	Aromatic Volatiles (EPA 8020)	Pesticides/PCBs or PCBs Only	GC/MS Volatiles (EPA 8240/8260)	GC/MS Semi-Vol. (EPA 8270)	PAHs by HPLC (EPA 8310)	Lead: Total or Dissolved	WET Metals (8) 6010A	NCA SAMPLE NUMBER
1. B-17	8/1/97	W				X									X			5	Total + Dissolved Metals
2. B-18																		4	
3. B-35																		4	
4. B-36																		4	
5. B-37																		5	Total + Diss. Metals
6. U-2																		4	
7. U-3																		5	Total + Diss. Met
8. U-3 DUP.																		5	Total + Diss Me
9. U-5																		4	
10.																			

Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time
1.	PEG	8/1/97 1510		NCA	8-5-97 1100
2.	NCA	8-5-97 1315	Kari Cline	NCA	8-5-97 13:25
3.					

Final Report Approval

Were all requested results provided? [yes] [no] Define
Were results within requested turnaround? [yes] [no] "No" on back
Final Approval Signature:
Firm: Date:

Page 1 of 1
Rev. 2.2, 11/94

Comments:

Distribution: White - Laboratory Yellow - Consultant Photocopy - Unocal

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PACIFIC ENVIRONMENTAL GROUP, INC.

December 10, 1997
Project 1115-099.2A

Ms. Jill Kiernan, P.E.
Oregon Department of Environmental Quality
Waste Management and Cleanup
2020 SW Fourth Avenue, Suite 400
Portland, Oregon 97204

Re: Third Quarter (June - August 1997) Report
RI/FS Interim Action
Willbridge Facility
Portland, Oregon
Consent Order WMCSR-NWR-94-06

Dear Ms. Kiernan:

Pacific Environmental Group, Inc. (PACIFIC), is pleased to present the third quarter 1997 progress report for the remedial investigation/feasibility study (RI/FS) work being performed at the Chevron, Tosco (formerly Unocal), and GATX (formerly Shell) terminals which compose the Willbridge Facility in Portland, Oregon (Figure 1). This letter presents a summary of the following:

- Actions taken under the Consent Order from June to August 1997.
- Third Quarter 1997 sampling, test results, and other data generated between June and August 1997.

This progress report fulfills the requirement of Section 7F of Oregon Department of Environmental Quality (DEQ) Consent Order WMCSR-NWR-94-06.

ACTIVITIES PERFORMED THIRD QUARTER 1997

The following work was performed during June through August 1997:

- Performed quarterly groundwater sampling at the Chevron, GATX, and Tosco terminals.
- Performed monthly separate-phase hydrocarbon (SPH) removal from wells located on the Tosco, Chevron, and GATX terminals.

4020 148th Avenue N.E., Suite B, Redmond, Washington 98052 (206) 869-5099 FAX (206) 869-5639
7320 SW Hunziker Street, Suite 320, Portland, Oregon 97223 (503) 639-6305 FAX (503) 639-7482

THIRD QUARTER 1997 MONITORING ANALYSIS

Interim action monitoring activities performed during the third quarter included water level and SPH thickness measurements and groundwater sampling from selected wells, as outlined in the Field Coordination Plan dated April 1995.

Hydrogeological Analysis

Water level measurements were performed in July 1997. Measurements were corrected for SPH where encountered. A groundwater table contour map using the July 1997 data is shown on Figures 2A and 2B. The July 1997 groundwater elevation data is presented in Table 1. Water elevation and SPH recovery data for July 1997 and historic water elevation measurements are presented in Table 5.

Water levels beneath the site are influenced by annual precipitation cycles and by river stage fluctuations. The effect of river stage fluctuations is most pronounced on water levels in wells along the river front. During the third quarter (June through August 1997), water table elevations in the vicinity of the river decreased from second quarter levels by approximately one foot, while water table elevations in upgradient facility wells decreased by approximately 1.5 feet. These changes are likely in response to continued decline in river stage combined with cessation of upgradient recharge.

The direction of groundwater flow, inferred from the elevation contours, is generally toward the river, with a localized groundwater mound in the GATX south tank farm, and apparent elongated groundwater depressions (troughs) in the vicinity of Doane Avenue and the Saltzman Creek flume. These troughs may be caused by groundwater drainage through the backfill associated with the Doane Avenue storm sewer conduit and the Saltzman Creek flume. The groundwater mound in the GATX tank farm may be caused by the difference in hydraulic conductivity of the stratigraphic units beneath the GATX south tank farm (silt/clay) and the remainder of the site (sandy fill) or may represent a hydrogeological divide between the Saltzman Creek drainage and the historic Holbrook Slough drainage.

Hydrological Analysis

The Willamette River stage (measured at the Morrison Bridge river gauge and converted to City of Portland datum) ranged from a quarterly high of 21.36 feet on June 5 to a low of 7.02 feet August 12. The river stage averaged approximately 8.65 feet between July 28 and August 1, 1997, the dates of the third quarter groundwater monitoring. Precipitation and river stage data are shown on Figure 3.

Groundwater Analytical Results

Groundwater samples collected from selected facility monitoring wells between July 30 and August 1, 1997 were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds by EPA Method 8020, polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270-SIM, and RCRA Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) by EPA Method 6010A/7000 Series. The groundwater sampling protocol is presented in Attachment A.

The July 1997 BTEX results are presented in Table 2 and historic BTEX results are presented in Table 6. The July 1997 PAH results are presented in Table 3 and PAH results for the previous five quarters are presented in Tables 7, 8, 9, 10 and 11. The July 1997 metals results are presented in Tables 4A and 4B. Certified analytical results are presented in Attachment A. Samples were not collected from wells containing SPH (as designated by NS/F in the tables).

BTEX Compounds

The July 1997 BTEX testing results appear to be consistent with the April 1997 results. Concentrations of BTEX in Well B-17 have increased the last two quarters after previously decreasing for two quarters. Concentrations of BTEX decreased in Wells MW-11, MW-22, MW-37, and U-2 after increased concentrations the previous two quarters. Concentrations of BTEX decreased in Well B-30 after increased concentrations the previous three quarters. Concentrations in Wells B-10, B-14, B-28, B-30, CR-8, and MW-23 have decreased from the last quarter results. Concentrations in Wells B-11, B-17, B-35, CR-11, MW-8, MW-15, and U-3 have increased from the last quarter results.

The BTEX levels have remained both unchanged and non-detect since last quarter in Wells B-7, B-18, B-36, B-37, MW-10, MW-13, MW-21, MW-28, MW-31, MW-32, MW-33, MW-36, MW-40, and U-5. Previously unsampled Well CR-9 reported non detectable concentrations of BTEX constituents.

PAH Compounds

The July 1997 PAH analytical results report detected PAH concentrations similar to April 1997 results. Reported concentrations of PAH compounds were generally below 1 part per billion (ppb), with the exception of naphthalene, and fluorene. Well B-35 reported concentrations of fluoranthene and pyrene above 1 ppb. Detected concentrations of naphthalene, and phenanthrene generally decreased from April 1997. Concentrations of acenaphthene, fluorene and flouranthene appeared to increase from April 1997 results. Concentrations of naphthalene decreased by up to 181 ppb in Wells B-11, B-14, B-30, MW-8, MW-11, MW-22, and U-2. Wells B-28, B-36, B-37, CR-9, U-2, U-3, MW-8, MW-10, MW-13, MW-15, MW-21, MW-32, MW-33, MW-36, and MW-40 were reported as non detect for all PAH compounds at method detection limits.

Concentrations of carcinogenic PAHs (CPAHs) generally decreased at the facility; CPAHs were detected in Wells B-14, B-35, CR-8, and MW-23. Of these, only Well B-35 reported CPAH concentrations above 1 ppb. All other wells analyzed for PAHs were non detect for CPAHs.

Metals

Samples for RCRA Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) were collected and analyzed for total (unfiltered) metal concentrations. A selection (approximately 10 percent of the total) were additionally analyzed for dissolved (filtered) metal concentrations. Dissolved metal samples were field-filtered using a 0.45-micron filter capsule.

Total metals analytical results report concentrations of arsenic, barium, chromium, and lead in the majority of sampled wells. Of the 32 wells sampled for total metals, cadmium was detected in five wells, selenium in eight, and mercury in five. The majority of wells reporting concentrations of total cadmium were located at the Chevron terminal. No silver was detected in wells sampled July 1997. Concentrations of analyzed total metals remained below 1 part per million (ppm) in all sampled wells, with the exception of barium in B-10, B-18, and MW-33.

Concentrations of mercury in Well CR-11 increased from non detectable levels in April 1997 to detectable levels in July 1997. Concentrations of selenium in Wells MW 10, MW-11, MW-21, and MW-22 dropped from detectable levels in April 1997 to non detect July 1997. Generally arsenic and barium concentrations increased from April 1997 to July 1997.

Dissolved metals analytical results for chromium, lead, and selenium are similar to the April 1997 sampling results; reported dissolved concentrations are reduced or non detect when compared to the respective total metal results. Cadmium was detected in July 1997 total metal samples; however, results for dissolved metal samples were non detect for cadmium, suggesting that cadmium is not present in dissolved form. Results for arsenic and barium analyses are similar to the April 1997 results; no significant reduction in reported concentrations is seen between dissolved and total metals analyses for these metals. Mercury analyses were non detect for all dissolved samples. The July 1997 data may indicate that arsenic and barium are present in a dissolved state, while cadmium, chromium, lead, mercury, and selenium concentrations are the result of suspended solids in the sample.

Separate-Phase Hydrocarbon Analysis

Separate-phase hydrocarbon thicknesses were measured at selected wells on a monthly basis (Tables 1 and 5). Apparent SPH thickness data for July and October 1996, as well as, January, April and July 1997 are shown on Figures 3A and 3B.

SPH near the riverfront area is historically concentrated in the current and former alignments of the Doane Avenue stormwater outfall and possibly the Holbrook Slough. Wells B-1, B-4, B-17, and B-35 are located in the dock area nearest the old Doane Avenue storm drain alignment. Wells B-38, B-39, B-40, and U-5 are adjacent to the new Doane Avenue storm drain in the riverfront area. Well B-7 is located nearest the historic Holbrook Slough outfall. Well RES-N is constructed in the backfill of the storm drain in the riverfront area. Well B-20 is located upgradient of the Holbrook Slough recovery trench.

The July 1997 product measurements generally indicate SPH thicknesses similar to previous quarterly measurements in the riverfront area wells (Table 2). North of Front Avenue, SPH was measured in Tosco Wells B-1, B-4, B-22, B-38, B-39, B-40, B-41, RES-N, and IT-E, as well as Chevron Wells B-7 and B-20. The SPH thickness in Well B-1 increased by 0.53 foot from the April 1997 thickness of 0.12 foot. Well B-22 increased from non detectable SPH thickness in April 1997 to a thickness of 2.26 feet in July 1997. Well B-39 contained an SPH thickness of 0.10 foot as measured in April 1997; this thickness increased to 0.97 foot in July 1997. Well B-41 increased from a SPH thickness of 0.03 foot in April 1997 to 0.70 foot in July 1997.

Within the tank farm areas, SPH was measured in Tosco Wells U-4 and U-5A. Separate-phase hydrocarbon thicknesses were also measured in CR-6, CR-7, CR-10, and along the perimeter of the Chevron tank farm. Separate-phase hydrocarbon was measured in Wells MW-6, MW-7, MW-24, and MW-28 south of Front Avenue within the GATX terminal. Well MW-6 increased from non detectable SPH thicknesses in April 1997 to a SPH thickness of 0.13-foot in July 1997. The SPH thickness in Well MW-7 decreased by three quarters of a foot to 1.05 feet in July 1997.

SEPARATE-PHASE HYDROCARBON RECOVERY

The SPH recovery program began in May 1995. Approximately 115 gallons of SPH were recovered by automated SPH product recovery equipment from late May 1995 to August 1996. Automated SPH recovery was discontinued at the facility in December 1996 and monthly manual recovery of SPH at the facility was initiated in early February 1997. Approximately 218.85 gallons of SPH have been removed to date by manual recovery methods. Approximately 43.85 gallons were manually recovered from June to August 1997.

Separate-phase hydrocarbon recovery by pumping was performed June 23, July 24, and August 27, 1997. Approximately 22.60 gallons of SPH were removed from Wells MW-6, MW-7, and MW-24 at the GATX terminal. Approximately 9.5 gallons of SPH were removed from Wells B-38, B-39, B-40, B-41, U-4, U-5A, RES-N and IT-E at the Tosco terminal. Approximately 11.75 gallons of SPH were removed from Wells B-7, CR-7, and CR-10 at the Chevron terminal. The SPH recovery data is presented in Table 1.

Seep and Sheen Monitoring

Containment booms currently encompass the shoreline between the Chevron and Tosco docks, and from the south edge of the Tosco dock to the southern property line (beyond the new Doane Avenue storm sewer outfall). Additionally, secondary containment booms are located inside of the first boom around the new Doane Avenue outfall pipe. Seeps and sheens are monitored by terminal personnel; significant sheens are reported to PACIFIC for further evaluation.

No sheening events were reported during third quarter 1997.

PROBLEMS ENCOUNTERED DURING THIRD QUARTER 1997

No problems were encountered during June 1997 through August 1997.

ACTIVITIES SCHEDULED FOR FOURTH QUARTER 1997 (SEPTEMBER - NOVEMBER 1997)

The following actions are scheduled for fourth quarter 1997:

- Monthly SPH removal from identified "hot-spot" wells.
- Gauging of water level elevations and SPH in all facility wells during the fourth quarter sampling event, scheduled for October 1997.

PACIFIC appreciates the opportunity to be of service. If you have any questions regarding this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

Lance Geselbracht for K.F.
Kevin M. Freeman
Project Hydrogeologist

Lance Geselbracht
Lance Geselbracht, P.E.
Senior Engineer

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Seep and Sheen Monitoring

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Sincerely,

Pacific Environmental Group, Inc.

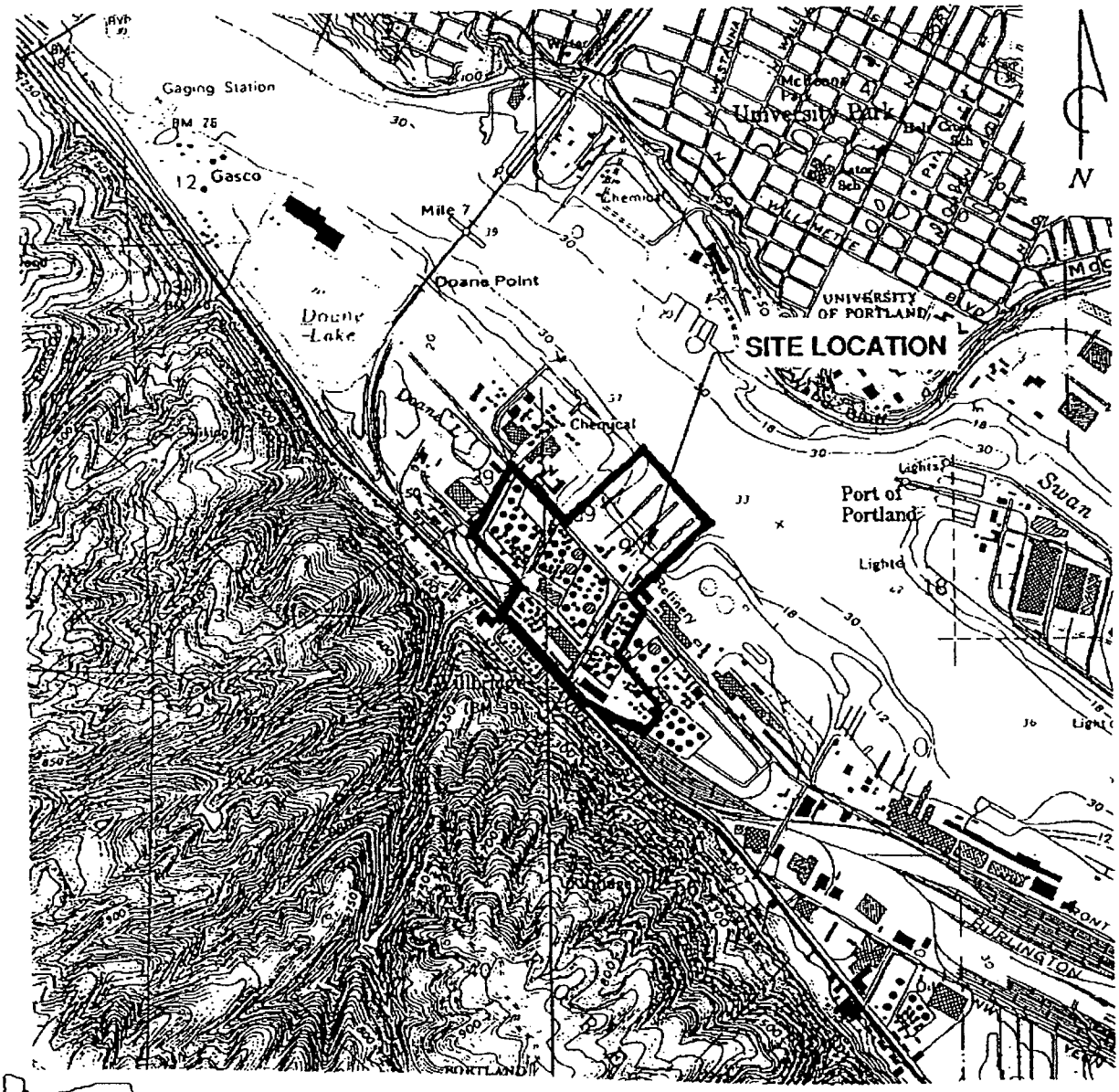
Kevin M. Freeman
Project Hydrogeologist

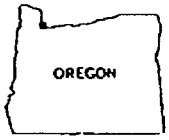
Lance Geselbracht, P.E.
Senior Engineer

11150992A\3Q97.DOC

Attachments: Figure 1 - Site Location Map
Figure 2A - Groundwater Elevation Contour Map (July 1997)
Figure 2B - Groundwater Elevation Contour Map (July 1997)
Figure 3A - Apparent Separate-Phase Hydrocarbon Thickness (July 1996 to July 1997)
Figure 3B - Apparent Separate-Phase Hydrocarbon Thickness (July 1996 to July 1997
Figure 4 - Precipitation and River Stage Hydrograph, Third Quarter 1997
Table 1 - Groundwater Elevation Data and SPH Recovery Data
Table 2 - Groundwater Analytical Results (Third Quarter BTEX)
Table 3 - Groundwater Analytical Results (Third Quarter PAHs)
Table 4A - Groundwater Analytical Results (Third Quarter Total Metals)
Table 4B - Groundwater Analytical Results (Third Quarter Dissolved Metals)
Table 5 - Groundwater Elevation and SPH Recovery Data (March 1995 to July 1997)
Table 6 - Groundwater Analytical Results (January 1995 to July 1997 BTEX)
Table 7 - Groundwater Analytical Results (April 1996 to July 1997 PAHs)
Attachment A - Sampling Protocol, Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Irv Jenkins, Shell Oil Products Company
Ms. Anne Marie Dockstader, Chevron Products Company
Mr. Martin Cramer, Tosco Northwest Company
Mr. Eric Conard, GATX Terminals Corporation





QUADRANGLE LOCATION

REFERENCES:

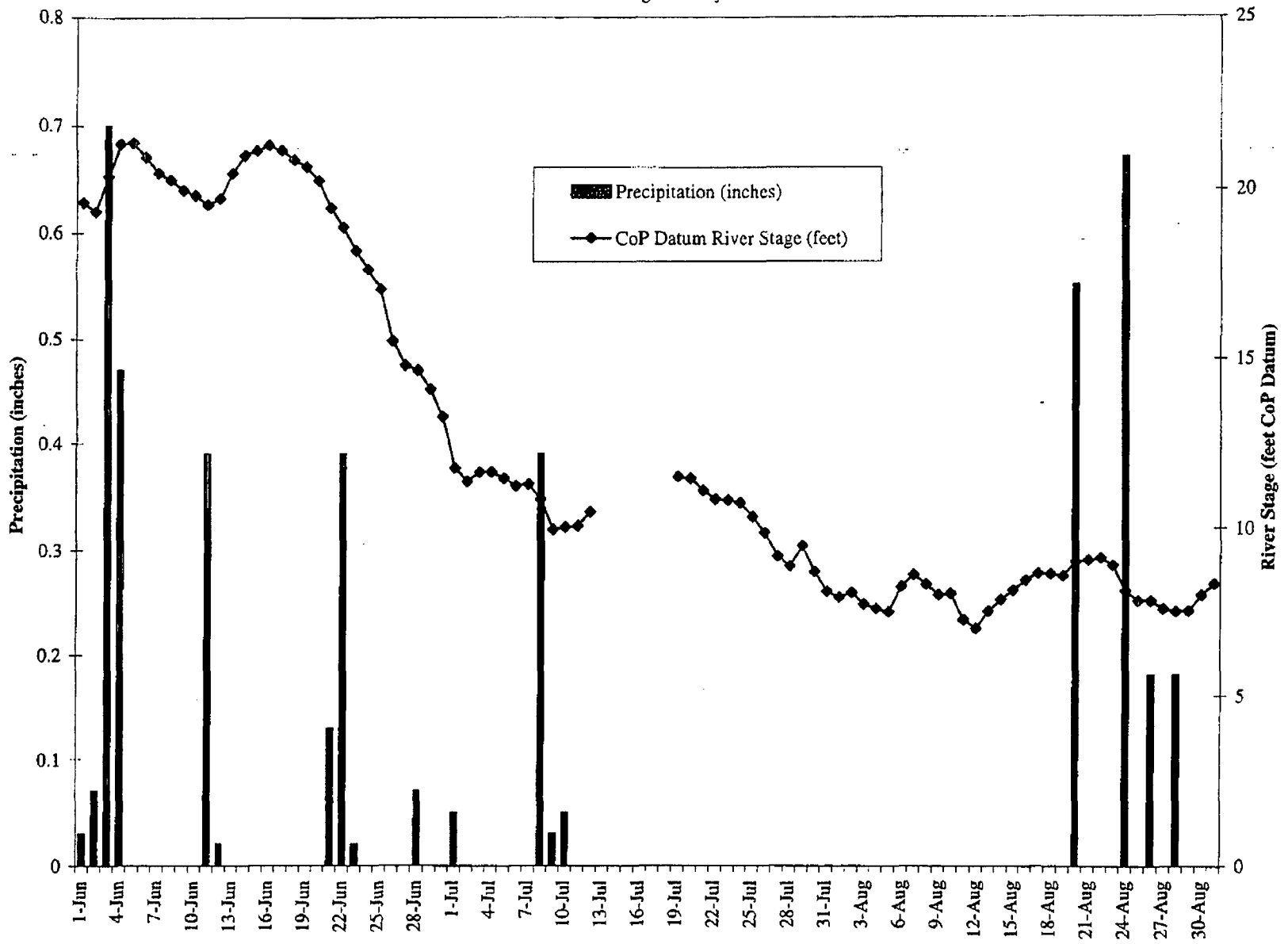
USGS 7.5 MIN TOPOGRAPHIC MAP
TITLED: PORTLAND, OREG-WASH
DATED: 1961 PHOTOREVISED: 1970-1977
TITLED: LINNTON, OREGON
DATED: 1990

SCALE IN FEET

2000 0 2000

PACIFIC ENVIRONMENTAL GROUP, INC.	WILLBRIDGE FACILITY Portland, Oregon	FIGURE: 1
	SITE LOCATION MAP	PROJECT: 1115-099.2A

Figure 4
Precipitation and River Stage
June - August 1997
Willbridge Facility



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December 10, 1997

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Table 1
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron				
B-7	33.96	07/28/97	18.60	0.10	18.70	15.35	1.00
B-8	35.90	07/28/97	NP	0.00	17.30	18.60	0.00
B-9	33.95	07/28/97	NP	0.00	16.60	17.35	0.00
B-10	34.74	07/28/97	NP	0.00	15.43	19.31	0.00
B-11	34.95	07/28/97	NP	0.00	15.33	19.62	0.00
B-13	34.76	07/28/97	NP	0.00	15.85	18.91	0.00
B-14	36.59	07/28/97	NP	0.00	17.63	18.96	0.00
B-15	35.55	07/28/97	NP	0.00	16.77	18.78	0.00
B-19	34.71	07/28/97	NP	0.00	16.18	18.53	0.00
B-20	33.40	07/28/97	16.89	0.02	16.91	16.51	1.00
B-21	34.79	07/28/97	NP	0.00	16.45	18.34	0.00
B-24	34.70	07/28/97	NP	0.00	16.00	18.70	0.00
B-26	35.30	07/24/97	NP	0.00	15.80	19.50	0.00
B-28	35.25	07/24/97	NP	0.00	15.25	20.00	0.00
B-29	37.70	07/28/97	NP	0.00	15.40	22.30	0.00
B-30	35.35	07/28/97	NP	0.00	15.07	20.28	0.00
B-31	33.86	07/24/97	NP	0.00	15.89	17.97	0.00
B-32	34.23	07/28/97	NP	0.00	16.66	17.57	0.00
B-33	35.90	07/28/97	NP	0.00	16.24	19.66	0.00
CR-3	34.32	07/28/97	NP	0.00	14.51	19.81	0.00
CR-4	37.14	07/28/97	NP	0.00	6.31	30.83	0.00
CR-6	35.61	07/28/97	12.74	0.01	12.75	22.87	1.00
CR-7	35.57	07/24/97	11.52	0.10	11.62	24.03	2.75
CR-8	33.14	07/28/97	NP	0.00	7.30	25.84	0.00
CR-9	35.72	07/24/97	NP	0.00	5.71	30.01	0.00
CR-10	35.57	07/24/97	5.94	0.38	6.32	29.57	6.00
CR-11	34.43	07/24/97	NP	0.00	3.03	31.40	0.00
					Chevron Total SPH Recovered this Quarter:		**11.75**

Table 1 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX				
MW-1	35.43	07/30/97	NP	0.00	6.69	28.74	0.00
MW-2	35.77	07/30/97	NP	0.00	7.27	28.50	0.00
MW-3	36.02	07/30/97	NP	0.00	8.54	27.48	0.00
MW-4	36.39	07/30/97	NP	0.00	8.07	28.32	0.00
MW-5	33.52	07/30/97	NP	0.00	7.05	26.47	0.00
MW-6	33.34	07/30/97	5.10	0.13	5.23	28.22	0.25
MW-7	34.12	07/24/97	8.91	1.05	9.96	25.05	22.00
MW-8	33.95	07/30/97	NP	0.00	8.29	25.66	0.00
MW-9	36.53	07/24/97	NP	0.00	10.28	26.25	0.00
MW-10	35.82	07/30/97	NP	0.00	9.98	25.84	0.00
MW-11	36.47	07/30/97	NP	0.00	7.05	29.42	0.00
MW-12	35.95	07/30/97	NP	0.00	7.27	28.68	0.00
MW-13	37.89	07/30/97	NP	0.00	6.27	31.62	0.00
MW-14	36.28	07/30/97	NP	0.00	5.64	30.64	0.00
MW-15	37.50	07/30/97	NP	0.00	7.92	29.58	0.00
MW-16	34.93	07/30/97	NP	0.00	5.65	29.28	0.00
MW-17	36.05	07/30/97	NP	0.00	5.28	30.77	0.00
MW-18	33.76	07/30/97	NP	0.00	2.66	31.10	0.00
MW-19	33.39	07/30/97	NP	0.00	3.79	29.60	0.00
MW-20	34.76	07/30/97	NP	0.00	10.45	24.31	0.00
MW-21	34.33	07/30/97	NP	0.00	2.05	32.28	0.00
MW-22	35.65	07/30/97	NP	0.00	4.73	30.92	0.00
MW-23	36.06	07/30/97	NP	0.00	5.15	30.91	0.00
MW-24	35.15	07/30/97	8.30	0.16	8.46	26.83	0.25
MW-25	34.73	07/24/97	NP	0.00	10.92	23.81	0.00
MW-26	34.78	07/30/97	11.42	0.01	11.43	23.36	0.10
MW-27	35.67	07/30/97	NP	0.00	5.69	29.98	0.00
MW-28	34.39	07/30/97	NP	0.00	6.30	28.09	0.00
MW-29	35.77	07/30/97	NP	0.00	13.58	22.19	0.00
MW-30	36.39	07/30/97	NP	0.00	6.00	30.39	0.00
MW-31	37.55	07/30/97	NP	0.00	7.32	30.23	0.00
MW-32	37.01	07/30/97	NP	0.00	5.49	31.52	0.00
MW-33	39.34	07/30/97	NP	0.00	20.03	19.31	0.00
MW-34	39.67	07/30/97	NP	0.00	19.76	19.91	0.00
MW-36	34.88	07/30/97	NP	0.00	14.51	20.37	0.00
MW-37	34.86	07/30/97	NP	0.00	15.15	19.71	0.00
MW-40	33.65	07/30/97	NP	0.00	14.24	19.41	0.00
					GATX Total SPH Recovered this Quarter:		**22.60**

Table 1 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco				
B-1	34.79	07/28/97	17.15	0.65	17.80	17.54	NA
B-2	35.35	07/28/97	NP	0.00	16.94	18.41	0.00
B-3	36.79	07/28/97	NP	0.00	18.83	17.96	0.00
B-4	34.79	07/28/97	18.50	0.02	18.52	16.29	0.10
B-5	34.83	07/28/97	NP	0.00	16.54	18.29	0.00
B-6	35.41	07/28/97	NP	0.00	16.87	18.54	0.00
B-16	35.82	07/28/97	NP	0.00	17.15	18.67	0.00
B-17	35.59	07/28/97	NP	0.00	17.15	18.44	0.00
B-18	35.79	07/28/97	NP	0.00	19.14	16.65	0.00
B-22	35.83	07/28/97	18.89	2.26	21.15	16.60	1.00
B-27	35.74	07/25/97	NP	0.00	17.86	17.88	0.00
B-35	33.58	07/28/97	NP	0.00	16.05	17.53	0.00
B-36	30.97	07/28/97	NP	0.00	15.01	15.96	0.00
B-37	35.24	07/28/97	NP	0.00	20.30	14.94	0.00
B-38	34.75	07/25/97	19.78	0.21	19.99	14.94	0.75
B-39	33.92	07/25/97	18.72	0.97	19.69	15.05	2.75
B-40	33.19	07/25/97	18.86	0.04	18.90	14.32	1.50
B-41	34.85	07/25/97	18.13	0.70	18.83	16.61	0.10
IT-E	36.44	07/28/97	20.05	0.60	20.65	16.30	2.00
IT-W	35.99	07/28/97	NP	0.00	17.81	18.18	0.00
RES-N	38.58	07/28/97	23.46	0.02	23.48	15.12	0.10
RES-O	36.03	07/28/97	NP	0.00	17.65	18.38	0.00
U-2	35.02	07/28/97	NP	0.00	15.27	19.75	0.00
U-3	35.25	07/28/97	NP	0.00	13.83	21.42	0.00
U-4	34.46	07/25/97	15.85	0.01	15.86	18.61	0.10
U-5	34.20	07/28/97	NP	0.00	19.38	14.82	0.00
U-5A	33.77	07/25/97	6.89	0.06	6.95	26.87	1.10
					Tosco Total SPH Recovered this Quarter:		**9.50**
					Complete Total SPH Recovered this Quarter:		**43.85**

Notes:

SPH = Separate-phase hydrocarbon
NP = No product
NA = Not available
NM = Not measured
* = Groundwater elevation (GWE) is corrected for the presence of SPH using:
GWE = toc - (DTW + (SPH thickness x Specific gravity of SPH)) Specific gravity used is 0.85
** = SPH recovered represents total recovered for presented interval.

Table 2
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron			
B-9	07/31/97	ND	ND	ND	2.22
B-10	07/31/97	52.0	ND	ND	ND
B-11	07/31/97	339	150	141	448
B-14	07/31/97	407	37.2	118	67.0
Duplicate	07/31/97	332	32.0	83.5	51.0
B-28	07/31/97	2.19	ND	12.5	2.39
B-30	07/31/97	30.0	4.00	1.22	7.38
CR-8	07/31/97	ND	ND	ND	ND
CR-9	07/31/97	ND	ND	ND	ND
CR-11	07/31/97	35.2	ND	ND	ND

COPPOR00005782

Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX			
MW-8	07/30/97	155	6.24	93.8	135
MW-10	07/30/97	ND	ND	ND	ND
MW-11	07/30/97	6,390	2,630	2,970	10,800
MW-13	07/30/97	ND	ND	ND	ND
MW-15	07/30/97	9.78	ND	ND	ND
MW-21	07/30/97	ND	ND	ND	ND
Duplicate	07/30/97	ND	ND	ND	ND
MW-22	07/30/97	1,940	1,950	4,320	13,400
MW-23	07/30/97	22.3	ND	48.7	57.0
MW-28	07/30/97	ND	ND	ND	ND
MW-31	07/30/97	ND	ND	ND	ND
MW-32	07/30/97	ND	ND	ND	ND
MW-33	07/31/97	ND	ND	ND	ND
MW-36	07/31/97	ND	ND	ND	ND
MW-37	07/31/97	1,350	ND	29.2	42.6
MW-40	07/31/97	ND	ND	ND	ND

COPPOR00005783

Table 2 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco			
B-17	08/01/97	768	ND	ND	ND
B-18	08/01/97	ND	ND	ND	ND
B-35	08/01/97	8.25	5.19	ND	ND
B-36	08/01/97	ND	ND	ND	ND
B-37	08/01/97	ND	ND	ND	ND
U-2	08/01/97	6.66	ND	3.18	ND
U-3	08/01/97	14.9	14.8	ND	5.42
Duplicate	08/01/97	14.8	15.0	ND	5.80
U-5	08/01/97	ND	ND	ND	ND

Notes:

ppb = Parts per billion
ND = Not detected
NS = Not sampled
NS/F = Not sampled floating product present
NA = Not analyzed, not applicable
BTEX by EPA Method 8020

COPPOR00005784

Table 3
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron																	
B-9	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.7	ND	ND	ND	ND
B-10	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.2	ND	ND	ND	ND
B-11	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.93	ND	ND	ND	0.196
B-14	07/31/97	ND	ND	ND	0.133	ND	ND	ND	ND	0.127	ND	0.660	2.00	ND	5.96	ND	0.802
Duplicate	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.622	1.82	ND	ND	ND	0.666
B-28	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-30	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.183	ND	ND	ND	ND	0.278
CR-8	07/31/97	ND	ND	ND	0.268	0.640	0.472	0.794	0.216	0.348	ND	0.500	ND	0.510	ND	ND	0.798
CR-9	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CR-11	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.30	ND	ND	ND	ND

COPPOR00005785

Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
								GATX									
MW-8	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-11	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	294	ND	ND
MW-13	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-21	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-22	07/30/97	14.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.67	ND	220	ND	ND
MW-23	07/30/97	10.4	ND	ND	0.106	ND	ND	ND	ND	0.203	ND	ND	0.908	ND	ND	ND	ND
MW-28	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	ND	ND	ND	ND
MW-31	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.509	ND	ND	ND	ND
MW-32	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-33	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-36	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-37	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.12	ND	ND	ND	ND
MW-40	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR00005786

Table 3 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
								Tosco									
B-17	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.6	ND	ND	ND	ND
B-18	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	ND	ND	ND	0.119
B-35	08/01/97	ND	ND	ND	1.58	ND	ND	ND	ND	ND	ND	9.62	20.6	ND	ND	ND	5.04
B-36	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-37	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
U-2	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
U-3	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
U-5	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.112	4.29	ND	ND	ND	0.149

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR00005787

Table 4A
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				Chevron					
B-9	07/31/97	20.4	184	ND	21.4	31.0	ND	ND	ND
B-10	07/31/97	45.9	1,010	ND	202	85.8	ND	2.40	ND
B-11	07/31/97	23.1	334	ND	43.2	32.7	ND	ND	ND
B-14	07/31/97	25.8	101	ND	7.00	11.4	ND	ND	ND
Duplicate	07/31/97	26.2	117	ND	8.90	14.1	ND	ND	ND
B-28	07/31/97	3.90	216	3.90	20.2	35.9	ND	1.10	ND
B-30	07/31/97	22.6	446	3.40	57.5	52.6	ND	1.20	ND
CR-8	07/31/97	23.1	166	3.00	11.3	29.5	ND	ND	ND
CR-9	07/31/97	22.2	178	ND	10.7	10.6	ND	ND	ND
CR-11	07/31/97	68.1	438	44.0	55.7	149	0.616	1.40	ND

COPPOR0005788

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					GATX				
MW-8	07/30/97	7.80	11.1	ND	ND	ND	ND	ND	ND
MW-10	07/30/97	5.80	74.5	ND	17.3	9.70	ND	ND	ND
MW-11	07/30/97	44.3	80.7	ND	4.00	38.1	0.250	ND	ND
MW-13	07/30/97	6.20	144	ND	10.9	16.7	ND	ND	ND
MW-15	07/30/97	1.10	84.7	ND	2.30	4.50	ND	ND	ND
MW-21	07/30/97	2.70	190	ND	1.20	2.30	ND	ND	ND
Duplicate	07/30/97	2.60	215	ND	1.20	4.40	ND	ND	ND
MW-22	07/30/97	87.1	167	ND	2.60	36.1	ND	ND	ND
MW-23	07/30/97	9.70	24.4	ND	2.20	49.2	ND	ND	ND
MW-28	07/30/97	1.40	26.6	ND	1.20	42.0	ND	ND	ND
MW-31	07/30/97	12.3	18.2	ND	1.20	12.6	ND	ND	ND
MW-32	07/30/97	ND	13.6	ND	1.60	8.90	ND	ND	ND
MW-33	07/31/97	47.2	1,320	ND	2.60	5.40	ND	ND	ND
MW-36	07/31/97	15.6	59.0	ND	2.80	7.80	ND	ND	ND
MW-37	07/31/97	18.3	45.3	ND	1.40	3.20	ND	ND	ND
MW-40	07/31/97	29.3	42.4	ND	66.5	72.5	0.760	ND	ND

COPPOR00005789

Table 4A (continued)
Groundwater Analytical Results - Total Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
				Tosco					
B-17	08/01/97	52.7	255	ND	17.7	141	ND	1.30	ND
B-18	08/01/97	25.6	1,400	ND	148	46.5	0.830	3.20	ND
B-35	08/01/97	36.0	82.5	ND	4.00	9.60	ND	ND	ND
B-36	08/01/97	7.50	57.4	ND	10.5	2.10	ND	ND	ND
B-37	08/01/97	66.9	198	ND	17.6	7.50	ND	1.00	ND
U-2	08/01/97	10.2	40.7	ND	1.70	32.9	ND	ND	ND
U-3	08/01/97	36.5	331	1.80	98.6	127	0.290	1.70	ND
Duplicate	08/01/97	31.2	980	1.80	99.4	58.1	0.210	2.30	ND
U-5	08/01/97	8.90	78.3	ND	9.90	49.9	ND	ND	ND

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
Total Metals by EPA Method 6000/7000

COPPOR00005790

Table 4B
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Chevron				
B-14	07/31/97	26.5	65.2	ND	ND	1.10	ND	ND	ND
Duplicate	07/31/97	27.6	65.6	ND	ND	ND	ND	ND	ND
B-30	07/31/97	15.3	61.6	ND	ND	ND	ND	ND	ND
CR-9	07/31/97	1.00	33.9	ND	ND	ND	ND	ND	ND

COPPOR0005791

Table 4B (continued)
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identi-fication	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					GATX				
MW-13	07/30/97	ND	32.2	ND	ND	ND	ND	ND	ND
MW-21	07/30/97	3.00	220	ND	ND	ND	ND	ND	ND
Duplicate	07/30/97	2.60	198	ND	ND	ND	ND	ND	ND
MW-23	07/30/97	10.0	18.7	ND	1.00	1.20	ND	ND	ND
MW-37	07/31/97	21.0	45.3	ND	ND	ND	ND	ND	ND

COPPOR0005792

Table 4B (continued)
Groundwater Analytical Results - Dissolved Metals

Willbridge Terminal
Portland, Oregon

Well Identi-fication	Date Sampled	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
					Tosco				
B-17	08/01/97	44.1	96.2	ND	1.00	3.40	ND	ND	ND
B-37	08/01/97	31.7	60.4	ND	ND	5.90	ND	ND	ND
U-3	08/01/97	23.9	89.5	ND	1.00	1.10	ND	ND	ND
Duplicate	08/01/97	25.8	90.8	ND	1.00	1.10	0.330	ND	ND

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
Dissolved Metals by EPA Method 6000/7000

COPPOR00005793

Table 5
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron				
B-7	33.96	03/24/95	18.07	0.00	18.07	15.89	NA
		04/24/95	18.61	0.00	18.61	15.35	NA
		05/22/95	18.56	0.00	18.56	15.40	NA
		06/19/95	18.77	0.00	18.77	15.19	NA
		07/24/95	19.74	0.00	19.74	14.22	NA
		08/28/95	20.03	0.00	20.03	13.93	NA
		09/25/95	19.79	0.01	19.80	14.17	NA
		10/23/95	19.56	0.01	19.57	14.40	NA
		11/27/95	18.61	0.00	18.61	15.35	NA
		12/29/95	17.74	0.00	17.74	16.22	NA
		01/22/96	15.82	0.00	15.82	18.14	NA
		02/26/96	14.09	0.04	14.13	19.86	NA
		03/25/96	17.38	0.01	17.39	16.58	NA
		04/22/96	17.07	0.01	17.08	16.89	NA
		05/28/96	16.46	0.00	16.46	17.50	NA
		06/24/96	17.96	0.00	17.96	16.00	NA
		07/22/96	18.79	0.00	18.79	15.17	NA
		08/26/96	19.18	0.00	19.18	14.78	NA
		09/23/96	19.22	0.00	19.22	14.74	NA
		10/28/96	19.10	0.00	19.10	14.86	NA
		11/25/96	17.95	0.00	17.95	16.01	NA
		01/29/97	NP	0.00	17.24	16.72	0.00
		04/21/97	NP	0.00	17.45	16.51	0.00
		07/28/97	18.60	0.10	18.70	15.35	1.00
						SPH Recovered to Date:	**1.00**
B-8	35.90	01/29/97	NP	0.00	15.99	19.91	0.00
		04/21/97	NP	0.00	16.67	19.23	0.00
		07/28/97	NP	0.00	17.30	18.60	0.00
						SPH Recovered to Date:	**0.00**
B-9	33.95	03/24/95	NA	0.00	16.01	17.94	NA
		04/24/95	NA	0.00	16.42	17.53	NA
		05/22/95	NA	0.00	16.54	17.41	NA
		06/19/95	NA	0.00	16.59	17.36	NA
		07/24/95	NA	0.00	17.45	16.50	NA
		08/28/95	NA	0.00	17.85	16.10	NA
		09/25/95	NA	0.00	17.85	16.10	NA
		10/23/95	NA	0.00	17.45	16.50	NA
		11/27/95	NA	0.00	16.51	17.44	NA
		12/29/95	NA	0.00	15.86	18.09	NA
		01/22/96	NA	0.00	15.31	18.64	NA
		01/29/96	NP	0.00	15.31	18.64	0.00
		02/26/96	NA	0.00	13.20	20.75	NA
		03/25/96	NA	0.00	15.49	18.46	NA
		04/22/96	NA	0.00	15.20	18.75	NA
		05/28/96	NA	0.00	15.47	18.48	NA
		06/24/96	NA	0.00	16.09	17.86	NA
		07/22/96	NA	0.00	16.61	17.34	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-9	33.95	08/26/96	NA	0.00	17.26	16.69	NA
		09/23/96	NA	0.00	17.14	16.81	NA
		10/28/96	NA	0.00	17.21	16.74	NA
		11/25/96	NA	0.00	16.35	17.60	NA
		01/29/97	NP	0.00	15.31	18.64	0.00
		04/21/97	NP	0.00	15.82	18.13	0.00
		07/28/97	NP	0.00	16.60	17.35	0.00
						SPH Recovered to Date:	**0.00**
B-10	34.74	03/24/95	15.08	0.00	15.08	19.66	NA
		04/24/95	15.41	0.00	15.41	19.33	NA
		05/22/95	15.68	0.00	15.68	19.06	NA
		06/19/95	15.96	0.00	15.96	18.78	NA
		07/24/95	16.26	0.00	16.26	18.48	NA
		08/28/95	16.26	0.32	16.58	18.43	NA
		09/25/95	16.84	0.00	16.84	17.90	NA
		10/23/95	16.70	0.00	16.70	18.04	NA
		11/27/95	15.99	0.00	15.99	18.75	NA
		12/29/95	15.01	0.00	15.01	19.73	NA
		01/22/96	14.67	0.00	14.67	20.07	NA
		02/26/96	12.18	0.00	12.18	22.56	NA
		03/25/96	13.82	0.00	13.82	20.92	NA
		04/22/96	14.66	0.00	14.66	20.08	NA
		05/28/96	14.59	0.00	14.59	20.15	NA
		06/24/96	15.03	0.00	15.03	19.71	NA
		07/22/96	15.64	0.00	15.64	19.10	NA
		08/26/96	16.12	0.00	16.12	18.62	NA
		09/23/96	16.21	0.00	16.21	18.53	NA
		10/28/96	16.18	0.00	16.18	18.56	NA
		11/25/96	15.35	0.00	15.35	19.39	NA
		01/29/97	NP	0.00	13.80	20.94	0.00
		04/21/97	NP	0.00	14.85	19.89	0.00
		07/28/97	NP	0.00	15.43	19.31	0.00
						SPH Recovered to Date:	**0.00**
B-11	34.95	03/24/95	NA	0.00	15.22	19.73	NA
		07/24/95	NA	0.00	16.08	18.87	NA
		10/23/95	NA	0.00	16.64	18.31	NA
		01/22/96	NA	0.00	15.73	19.22	NA
		04/22/96	NA	0.00	14.44	20.51	NA
		05/28/96	NA	0.00	14.46	20.49	NA
		07/22/96	NA	0.00	15.40	19.55	NA
		08/26/96	NA	0.00	15.91	19.04	NA
		09/23/96	NA	0.00	16.08	18.87	NA
		10/28/96	NA	0.00	16.14	18.81	NA
		11/25/96	NA	0.00	15.53	19.42	NA
		01/29/97	NP	0.00	15.65	19.30	0.00
		04/21/97	NP	0.00	14.67	20.28	0.00
		07/28/97	NP	0.00	15.33	19.62	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
						SPH Recovered to Date:	**0.00**
B-12	35.11	08/26/96	NA	0.00	16.37	18.74	NA
		09/23/96	NA	0.00	16.53	18.58	NA
		11/25/96	NA	0.00	16.07	19.04	NA
		01/29/97	NP	0.00	14.18	20.93	0.00
		04/21/97	NP	0.00	15.20	19.91	0.00
						SPH Recovered to Date:	**0.00**
B-13	34.76	08/26/96	NA	0.00	16.36	18.40	NA
		09/23/96	NA	0.00	16.51	18.25	NA
		10/28/96	NA	0.00	16.59	18.17	NA
		11/25/96	NA	0.00	16.14	18.62	NA
		01/29/97	NP	0.00	14.35	20.41	0.00
		04/21/97	NP	0.00	15.23	19.53	0.00
		07/28/97	NP	0.00	15.85	18.91	0.00
						SPH Recovered to Date:	**0.00**
B-14	36.59	04/24/95	NA	0.00	17.59	19.00	NA
		07/24/95	NA	0.00	18.35	18.24	NA
		10/23/95	NA	0.00	18.84	17.75	NA
		01/22/96	NA	0.00	17.21	19.38	NA
		04/22/96	NA	0.00	15.80	20.79	NA
		05/28/96	NA	0.00	16.82	19.77	NA
		07/22/96	NA	0.00	17.70	18.89	NA
		08/26/96	NA	0.00	18.15	18.44	NA
		09/23/96	NA	0.00	18.31	18.28	NA
		10/28/96	NA	0.00	18.40	18.19	NA
		11/25/96	NA	0.00	17.94	18.65	NA
		01/29/97	NP	0.00	16.05	20.54	0.00
		04/21/97	NP	0.00	17.03	19.56	0.00
		07/28/97	NP	0.00	17.63	18.96	0.00
						SPH Recovered to Date:	**0.00**
B-15	35.55	08/26/96	NA	0.00	17.32	18.23	NA
		09/23/96	NA	0.00	17.47	18.08	NA
		10/28/96	NA	0.00	17.56	17.99	NA
		11/25/96	NA	0.00	17.08	18.47	NA
		01/29/97	NP	0.00	15.26	20.29	0.00
		04/21/97	NP	0.00	16.20	19.35	0.00
		07/28/97	NP	0.00	16.77	18.78	0.00
						SPH Recovered to Date:	**0.00**
B-19	34.71	03/24/95	NA	0.00	16.01	18.70	NA
		04/24/95	NA	0.00	16.21	18.50	NA
		05/22/95	NA	0.00	16.45	18.26	NA
		06/19/95	NA	0.00	16.70	18.01	NA
		07/24/95	NA	0.00	17.09	17.62	NA
		08/28/95	NA	0.00	17.37	17.34	NA
		09/25/95	NA	0.00	17.56	17.15	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-19	34.71	10/23/95	NA	0.00	17.45	17.26	NA
		11/27/95	NA	0.00	16.86	17.85	NA
		12/29/95	NA	0.00	15.75	18.96	NA
		01/22/96	NA	0.00	15.54	19.17	NA
		02/26/96	NA	0.00	12.95	21.76	NA
		03/25/96	NA	0.00	14.80	19.91	NA
		04/22/96	NA	0.00	15.39	19.32	NA
		05/28/96	NA	0.00	15.31	19.40	NA
		06/24/96	NA	0.00	15.79	18.92	NA
		07/22/96	NA	0.00	16.35	18.36	NA
		08/26/96	NA	0.00	16.84	17.87	NA
		09/23/96	NA	0.00	16.97	17.74	NA
		10/28/96	NA	0.00	17.03	17.68	NA
		11/25/96	NA	0.00	16.43	18.28	NA
		01/29/97	NP	0.00	14.81	19.90	0.00
		04/21/97	NP	0.00	15.67	19.04	0.00
		07/28/97	NP	0.00	16.18	18.53	0.00
						SPH Recovered to Date:	**0.00**
B-20	33.40	03/24/95	16.55	0.00	16.55	16.85	NA
		04/24/95	16.93	0.00	16.93	16.47	NA
		05/22/95	16.96	0.00	16.96	16.44	NA
		06/19/95	17.20	0.00	17.20	16.20	NA
		07/24/95	17.95	0.19	18.14	15.42	NA
		08/28/95	18.30	0.37	18.67	15.04	NA
		09/25/95	18.26	0.01	18.27	15.14	NA
		10/23/95	18.04	0.00	18.04	15.36	NA
		11/27/95	17.11	0.01	17.12	16.29	NA
		12/29/95	16.17	0.01	16.18	17.23	NA
		01/22/96	15.20	0.00	15.20	18.20	NA
		02/26/96	13.55	0.01	13.56	19.85	NA
		03/25/96	15.99	0.00	15.99	17.41	NA
		04/22/96	15.88	0.00	15.88	17.52	NA
		05/28/96	15.59	0.00	15.59	17.81	NA
		06/24/96	16.29	0.00	16.29	17.11	NA
		07/22/96	17.13	0.00	17.13	16.27	NA
		08/26/96	17.62	0.00	17.62	15.78	NA
		09/23/96	17.59	1.05	18.64	15.65	NA
		10/28/96	17.50	0.43	17.93	15.84	NA
		11/25/96	16.57	0.05	16.62	16.82	NA
		01/29/97	NP	0.00	15.93	17.47	0.00
		04/21/97	NP	0.00	16.19	17.21	0.00
		07/28/97	16.89	0.02	16.91	16.51	1.00
						SPH Recovered to Date:	**1.00**
B-21	34.79	03/24/95	NA	0.00	16.23	18.56	NA
		04/24/95	NA	0.00	16.42	18.37	NA
		05/22/95	NA	0.00	16.63	18.16	NA
		06/19/95	NA	0.00	16.83	17.96	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-21	34.79	07/24/95	NA	0.00	17.18	17.61	NA
		08/28/95	NA	0.00	17.43	17.36	NA
		09/25/95	NA	0.00	17.58	17.21	NA
		10/23/95	NA	0.00	17.53	17.26	NA
		11/27/95	NA	0.00	17.09	17.70	NA
		12/29/95	NA	0.00	16.07	18.72	NA
		01/22/96	NA	0.00	15.91	18.88	NA
		02/26/96	NA	0.00	13.30	21.49	NA
		03/25/96	NA	0.00	15.08	19.71	NA
		04/22/96	NA	0.00	15.77	19.02	NA
		05/28/96	NA	0.00	15.61	19.18	NA
		06/24/96	NA	0.00	16.01	18.78	NA
		07/22/96	NA	0.00	16.53	18.26	NA
		08/26/96	NA	0.00	16.95	17.84	NA
		09/23/96	NA	0.00	17.11	17.68	NA
		10/28/96	NA	0.00	17.20	17.59	NA
		11/25/96	NA	0.00	16.71	18.08	NA
		01/29/97	NP	0.00	15.23	19.56	0.00
		04/21/97	NP	0.00	15.99	18.80	0.00
		07/28/97	NP	0.00	16.45	18.34	0.00
						SPH Recovered to Date:	**0.00**
B-24	34.70	03/24/95	15.87	0.01	15.88	18.83	NA
		04/24/95	15.96	0.03	15.99	18.74	NA
		05/22/95	16.17	0.01	16.18	18.53	NA
		06/19/95	16.39	0.02	16.41	18.31	NA
		07/24/95	16.56	0.04	16.60	18.13	0.01
		08/28/95	16.81	0.00	16.81	17.89	NA
		09/25/95	17.02	0.00	17.02	17.68	0.03
		10/23/95	17.05	0.00	17.05	17.65	NA
		11/27/95	16.75	0.00	16.75	17.95	NA
		12/29/95	15.90	0.00	15.90	18.80	NA
		01/22/96	15.71	0.00	15.71	18.99	NA
		02/26/96	13.98	0.00	13.98	20.72	NA
		03/25/96	14.62	0.00	14.62	20.08	NA
		04/22/96	15.28	0.00	15.28	19.42	NA
		05/28/96	15.25	0.00	15.25	19.45	NA
		06/24/96	15.57	0.00	15.57	19.13	NA
		07/22/96	15.95	0.00	15.95	18.75	NA
		08/26/96	16.35	0.00	16.35	18.35	NA
		09/23/96	16.51	0.01	16.52	18.19	NA
		10/28/96	16.54	0.00	16.54	18.16	NA
		01/29/97	NM	0.00	NM	0.00	0.00
		04/21/97	NP	0.00	15.29	19.41	0.00
		07/28/97	NP	0.00	16.00	18.70	0.00
						SPH Recovered to Date:	**0.04**
B-26	37.04	03/12/95	NP	0.00	16.56	20.48	0.00
	35.30	04/24/95	NA	0.00	15.81	19.49	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-26	35.30	07/24/95	NA	0.00	16.69	18.61	NA
		10/23/95	NA	0.00	17.16	18.14	NA
		01/22/96	NA	0.00	15.23	20.07	NA
		04/22/96	NA	0.00	14.85	20.45	NA
		05/28/96	NA	0.00	14.95	20.35	NA
		07/22/96	NA	0.00	16.03	19.27	NA
		08/26/96	16.52	0.00	16.52	18.78	NA
		09/23/96	16.63	0.00	16.63	18.67	NA
		10/28/96	16.68	0.00	16.68	18.62	NA
		11/25/96	15.94	0.00	15.94	19.36	NA
		01/29/97	NP	0.00	14.36	20.94	NA
		04/21/97	15.28	0.01	15.29	20.02	0.40
		07/24/97	NP	0.00	15.80	19.50	0.00
						SPH Recovered to Date:	**0.40**
B-28	35.25	04/24/95	NA	0.00	15.02	20.23	NA
		07/24/95	NA	0.00	16.14	19.11	NA
		10/23/95	NA	0.00	16.40	18.85	NA
		01/22/96	NA	0.00	15.25	20.00	NA
		04/22/96	NA	0.00	14.62	20.63	NA
		05/28/96	NA	0.00	14.68	20.57	NA
		07/22/96	NA	0.00	15.51	19.74	NA
		10/28/96	NA	0.00	15.98	19.27	NA
		01/29/97	NP	0.00	14.36	20.89	NA
		04/21/97	14.99	0.01	15.00	20.26	0.30
		07/24/97	NP	0.00	15.25	20.00	0.00
						SPH Recovered to Date:	**0.30**
B-29	37.70	01/29/97	NL	0.00	NL	0.00	0.00
		04/21/97	NP	0.00	14.61	23.09	0.00
		07/28/97	NP	0.00	15.40	22.30	0.00
						SPH Recovered to Date:	**0.00**
B-30	35.35	04/24/95	NA	0.00	15.60	19.75	NA
		06/19/95	NP	0.00	15.60	19.75	0.00
		07/24/95	NA	0.00	15.96	19.39	NA
		10/23/95	NA	0.00	16.51	18.84	NA
		01/22/96	NA	0.00	14.51	20.84	NA
		04/22/96	NA	0.00	14.12	21.23	NA
		05/28/96	NA	0.00	14.68	20.67	NA
		07/22/96	NA	0.00	15.22	20.13	NA
		10/28/96	NA	0.00	15.94	19.41	NA
		01/29/97	NP	0.00	13.48	21.87	0.00
		04/21/97	NP	0.00	14.50	20.85	0.00
		07/28/97	NP	0.00	15.07	20.28	0.00
						SPH Recovered to Date:	**0.00**
B-31	33.86	03/24/95	NA	0.00	14.49	19.37	NA
		04/24/95	NA	0.00	15.30	18.56	NA
		05/22/95	NA	0.00	15.98	17.88	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-31	33.86	06/19/95	NA	0.00	16.74	17.12	NA
		07/24/95	NA	0.00	16.89	16.97	NA
		08/28/95	NA	0.00	17.15	16.71	NA
		09/25/95	NA	0.00	16.97	16.89	NA
		10/23/95	16.52	0.08	16.44	17.49	NA
		11/27/95	16.63	3.21	13.42	23.17	NA
		12/29/95	14.36	0.00	14.36	19.50	NA
		01/22/96	NA	0.00	15.73	18.13	NA
		02/26/96	NA	0.00	12.56	21.30	NA
		03/25/96	NA	0.00	16.06	17.80	NA
		04/22/96	NA	0.00	12.56	21.30	NA
		05/28/96	NA	0.00	14.61	19.25	NA
		06/24/96	NA	0.00	14.04	19.82	NA
		07/22/96	NA	0.00	15.84	18.02	NA
		08/26/96	NA	0.00	16.71	17.15	NA
		09/23/96	16.52	0.05	16.47	17.43	NA
		10/28/96	16.63	0.73	15.90	18.58	NA
		11/25/96	NA	0.00	14.47	19.39	NA
		01/29/97	NP	0.00	14.75	19.11	0.00
		04/21/97	14.35	0.02	14.37	19.51	0.20
		07/24/97	NP	0.00	15.89	17.97	0.00
						SPH Recovered to Date:	**0.20**
B-32	34.23	03/24/95	16.03	0.00	16.03	18.20	NA
		04/24/95	16.31	0.26	16.57	17.88	NA
		05/22/95	16.76	0.00	16.76	17.47	NA
		06/19/95	17.10	0.00	17.10	17.13	NA
		07/24/95	17.59	0.00	17.59	16.64	NA
		08/28/95	17.94	0.00	17.94	16.29	NA
		09/25/95	18.11	0.00	18.11	16.12	NA
		10/23/95	17.98	0.00	17.98	16.25	NA
		11/27/95	17.25	0.00	17.25	16.98	NA
		12/29/95	16.09	0.00	16.09	18.14	NA
		01/22/96	NA	0.00	15.73	18.50	NA
		02/26/96	NA	0.00	12.72	21.51	NA
		03/25/96	NA	0.00	15.45	18.78	NA
		04/22/96	NA	0.00	15.75	18.48	NA
		05/28/96	NA	0.00	15.37	18.86	NA
		06/24/96	NA	0.00	16.01	18.22	NA
		07/22/96	NA	0.00	16.86	17.37	NA
		08/26/96	NA	0.00	17.37	16.86	NA
		09/23/96	NA	0.00	17.61	16.62	NA
		10/28/96	NA	0.00	17.57	16.66	NA
		11/25/96	NA	0.00	16.61	17.62	NA
		01/29/97	NP	0.00	15.46	18.77	NA
		04/21/97	NP	0.00	15.89	18.34	NA
		07/28/97	NP	0.00	16.66	17.57	0.00
						SPH Recovered to Date:	**0.00**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
B-33	35.90	01/29/97	NP	0.00	14.86	21.04	0.00
		04/21/97	NP	0.00	15.70	20.20	0.00
		07/28/97	NP	0.00	16.24	19.66	0.00
						SPH Recovered to Date:	**0.00**
CR-1	22.08	01/29/96	NP	0.00	1.63	20.45	0.00
		01/29/97	NP	0.00	1.63	20.45	0.00
		04/21/97	NP	0.00	2.32	19.76	0.00
						SPH Recovered to Date:	**0.00**
CR-3	34.32	04/24/95	NA	0.00	14.09	20.23	NA
		07/24/95	NA	0.00	15.25	19.07	NA
		10/23/95	NA	0.00	15.81	18.51	NA
		01/22/96	NA	0.00	10.42	23.90	NA
		01/29/96	NP	0.00	12.52	21.80	0.00
		04/22/96	NA	0.00	12.68	21.64	NA
		05/28/96	NA	0.00	13.61	20.71	NA
		07/22/96	NA	0.00	14.62	19.70	NA
		08/26/96	NA	0.00	15.13	19.19	NA
		09/23/96	NA	0.00	15.28	19.04	NA
		10/28/96	NA	0.00	14.79	19.53	NA
		11/25/96	NA	0.00	12.45	21.87	NA
		01/29/97	NP	0.00	12.52	21.80	0.00
		04/21/97	13.39	0.01	13.40	20.93	0.00
		07/28/97	NP	0.00	14.51	19.81	0.00
						SPH Recovered to Date:	**0.00**
CR-4	34.93	04/24/95	NA	0.00	5.13	29.80	NA
		07/24/95	NA	0.00	6.90	28.03	NA
		01/22/96	NA	0.00	4.70	30.23	NA
		05/28/96	NA	0.00	4.99	29.94	NA
		07/22/96	NA	0.00	6.48	28.45	NA
		10/28/96	NA	0.00	6.35	28.58	NA
	37.14	01/29/97	NP	0.00	4.99	32.15	0.00
		04/21/97	NP	0.00	5.09	29.84	0.00
		05/03/97	NP	0.00	6.78	30.36	0.00
		07/28/97	NP	0.00	6.31	30.83	0.00
						SPH Recovered to Date:	**0.00**
CR-6	35.61	03/24/95	12.07	0.01	12.08	23.54	NA
		04/24/95	12.03	0.01	12.04	23.58	NA
		05/22/95	12.51	0.01	12.52	23.10	NA
		06/19/95	10.16	0.00	10.16	25.45	NA
		07/24/95	14.86	0.01	14.87	20.75	0.02
		08/28/95	14.51	0.01	14.52	21.10	0.02
		09/25/95	15.46	0.01	15.47	20.15	0.05
		10/23/95	15.50	0.00	15.50	20.11	NA
		12/29/95	8.81	0.00	8.81	26.80	NA
		01/22/96	12.02	0.01	12.03	23.59	0.04
		02/26/96	10.71	0.00	10.71	24.90	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-6	35.61	03/25/96	11.28	0.00	11.28	24.33	NA
		05/28/96	11.49	0.00	11.49	24.12	NA
		06/24/96	11.35	0.00	11.35	24.26	NA
		07/22/96	12.57	0.01	12.58	23.04	0.01
		08/26/96	13.03	0.02	13.05	22.58	0.02
		09/23/96	13.05	0.03	13.08	22.56	NA
		10/28/96	12.85	0.04	12.89	22.75	NA
		11/25/96	12.55	0.02	12.57	23.06	NA
		01/29/97	NP	0.00	11.15	24.46	0.00
		04/21/97	NP	0.00	11.86	23.75	0.00
		07/28/97	12.74	0.01	12.75	22.87	1.00
						SPH Recovered to Date:	**1.17**
CR-7	35.57	03/24/95	10.01	0.48	10.49	25.49	NA
		04/24/95	10.19	0.57	10.76	25.29	NA
		05/22/95	10.76	0.75	11.51	24.70	NA
		06/19/95	11.25	0.15	11.40	24.30	NA
		07/24/95	11.80	0.01	11.81	23.77	0.13
		08/28/95	12.20	0.00	12.20	23.37	0.03
		09/25/95	12.48	0.00	12.48	23.09	0.03
		10/23/95	11.98	0.00	11.98	23.59	NA
		11/27/95	10.73	0.00	10.73	24.84	NA
		12/29/95	10.23	0.05	10.28	25.33	NA
		01/22/96	9.91	0.21	10.12	25.63	0.12
		02/26/96	8.50	0.50	9.00	27.00	0.15
		03/25/96	9.81	0.02	9.83	25.76	0.01
		04/22/96	10.21	0.12	10.33	25.34	NA
		05/28/96	9.82	0.31	10.13	25.70	0.38
		06/24/96	10.78	0.20	10.98	24.76	0.69
		07/22/96	11.35	0.22	11.57	24.19	0.45
		08/26/96	11.84	0.12	11.96	23.71	0.13
		09/23/96	11.94	0.03	11.97	23.63	NA
		10/28/96	11.51	0.02	11.53	24.06	NA
		11/25/96	10.80	0.00	10.80	24.77	NA
		01/29/97	NP	0.00	11.11	24.46	0.00
		04/21/97	10.60	0.11	10.71	24.95	9.60
		07/24/97	11.52	0.10	11.62	24.03	2.75
						SPH Recovered to Date:	**14.47**
CR-8	33.14	04/24/95	NA	0.00	6.41	26.73	NA
		07/24/95	NA	0.00	8.22	24.92	NA
		10/23/95	NA	0.00	8.08	25.06	NA
		01/22/96	NA	0.00	6.21	26.93	NA
		04/22/96	NA	0.00	6.47	26.67	NA
		05/28/96	NA	0.00	6.31	26.83	NA
		07/22/96	NA	0.00	7.08	26.06	NA
		10/28/96	NA	0.00	7.71	25.43	NA
		01/29/97	NP	0.00	5.94	27.20	0.00
		04/21/97	NP	0.00	6.41	26.73	0.00

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-8	33.14	07/28/97	NP	0.00	7.30	25.84	0.00
						SPH Recovered to Date:	**0.00**
CR-9	35.72	01/29/97	NP	0.00	4.56	31.16	0.00
		04/21/97	3.38	0.01	3.39	32.34	0.20
		07/24/97	NP	0.00	5.71	30.01	0.00
						SPH Recovered to Date:	**0.20**
CR-10	35.57	03/24/95	5.34	0.03	5.37	30.23	NA
		04/24/95	4.27	0.08	4.35	31.29	NA
		05/22/95	5.31	0.09	5.40	30.25	NA
		06/19/95	6.30	0.08	6.38	29.26	NA
		07/24/95	9.22	0.00	9.22	26.35	NA
		08/28/95	10.15	0.00	10.15	25.42	0.40
		09/25/95	10.82	0.00	10.82	24.75	NA
		10/23/95	9.44	0.00	9.44	26.13	NA
		12/29/95	7.54	0.00	7.54	28.03	NA
		01/22/96	6.96	0.05	7.01	28.60	NA
		02/26/96	6.76	0.17	6.93	28.78	0.13
		03/25/96	7.62	0.00	7.62	27.95	5.16
		04/22/96	7.69	0.00	7.69	27.88	NA
		07/22/96	1.28	0.05	1.23	34.38	NA
		11/25/96	2.35	0.00	2.35	33.22	NA
		01/29/97	NP	0.00	3.76	31.81	0.00
		04/21/97	4.26	0.16	4.42	31.29	6.40
		07/24/97	5.94	0.38	6.32	29.57	6.00
						SPH Recovered to Date:	**18.09**
CR-11	34.43	03/24/95	1.19	0.00	1.19	33.24	NA
		04/24/95	1.34	0.00	1.34	33.09	NA
		05/22/95	2.49	0.00	2.49	31.94	NA
		06/19/95	2.94	0.00	2.94	31.49	NA
		07/24/95	3.68	0.00	3.68	30.75	NA
		08/28/95	4.18	0.00	4.18	30.25	NA
		09/25/95	4.83	0.00	4.83	29.60	NA
		10/23/95	4.59	0.00	4.59	29.84	NA
		11/27/95	3.61	0.00	3.61	30.82	NA
		12/29/95	1.83	0.00	1.83	32.60	NA
		01/22/96	1.78	0.00	1.78	32.65	NA
		02/26/96	1.13	0.00	1.13	33.30	NA
		03/25/96	1.27	0.00	1.27	33.16	NA
		04/22/96	1.40	0.00	1.40	33.03	NA
		05/28/96	1.45	0.00	1.45	32.98	NA
		06/24/96	2.39	0.00	2.39	32.04	NA
		07/22/96	3.35	0.00	3.35	31.08	NA
		08/26/96	4.10	0.00	4.10	30.33	NA
		09/23/96	4.35	0.00	4.35	30.08	NA
		10/28/96	3.12	0.02	3.14	31.31	NA
		11/25/96	2.35	0.00	2.35	32.08	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Chevron (continued)				
CR-11	34.43	01/29/97	NP	0.00	1.55	32.88	0.00
		04/21/97	NP	0.00	1.34	33.09	0.00
		07/24/97	NP	0.00	3.03	31.40	0.00
						SPH Recovered to Date:	**0.00**
						Chevron total SPH Recovered to Date:	**36.87**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX				
MW-1	35.43	04/24/95	NA	0.00	3.55	31.88	NA
		07/24/95	NA	0.00	6.26	29.17	NA
		10/23/95	NA	0.00	5.85	29.58	NA
		01/22/96	NA	0.00	2.92	32.51	NA
		04/22/96	NA	0.00	4.01	31.42	NA
		07/22/96	NA	0.00	6.92	28.51	NA
		10/28/96	NA	0.00	5.35	30.08	NA
		01/30/97	NP	0.00	3.92	31.51	0.00
		04/21/97	NP	0.00	3.63	31.80	0.00
		07/30/97	NP	0.00	6.69	28.74	0.00
						SPH Recovered to Date:	**0.00**
MW-2	35.77	01/30/97	NP	0.00	4.88	30.89	0.00
		04/21/97	NP	0.00	5.41	30.36	0.00
		07/30/97	NP	0.00	7.27	28.50	0.00
						SPH Recovered to Date:	**0.00**
MW-3	36.02	03/06/95	NA	0.00	6.79	29.23	NA
		03/27/95	NA	0.00	6.65	29.37	NA
		04/24/95	NA	0.00	6.98	29.04	NA
		07/24/95	NA	0.00	8.63	27.39	NA
		10/23/95	NA	0.00	9.62	26.40	NA
		01/22/96	8.96	0.00	8.96	27.06	NA
		04/22/96	NA	0.00	6.34	29.68	NA
		07/22/96	NA	0.00	8.47	27.55	NA
		10/28/96	NA	0.00	8.70	27.32	NA
		01/30/97	NP	0.00	6.40	29.62	0.00
		04/21/97	NP	0.00	6.93	29.09	0.00
		07/30/97	NP	0.00	8.54	27.48	0.00
						SPH Recovered to Date:	**0.00**
MW-4	36.39	04/24/95	NA	0.00	6.35	30.04	NA
		07/24/95	NA	0.00	8.17	28.22	NA
		10/23/95	NA	0.00	9.16	27.23	NA
		01/22/96	NA	0.00	5.20	31.19	NA
		04/22/96	NA	0.00	5.59	30.80	NA
		07/22/96	NA	0.00	7.97	28.42	NA
		10/28/96	NA	0.00	8.14	28.25	NA
		11/25/96	NA	0.00	6.10	30.29	NA
		01/30/97	NP	0.00	5.40	30.99	0.00
		04/21/97	NP	0.00	6.29	30.10	0.00
		07/30/97	NP	0.00	8.07	28.32	0.00
						SPH Recovered to Date:	**0.00**
MW-5	33.52	03/27/95	NP	0.00	3.55	29.97	0.00
		04/24/95	NA	0.00	5.29	28.23	NA
		07/24/95	NA	0.00	7.12	26.40	NA
		10/23/95	NA	0.00	8.56	24.96	NA
		01/22/96	NA	0.00	4.32	29.20	NA
		04/22/96	NA	0.00	4.73	28.79	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-5	33.52	07/22/96	NA	0.00	6.98	26.54	NA
		10/28/96	NA	0.00	7.60	25.92	NA
		12/23/96	NA	0.00	2.35	31.17	NA
		01/30/97	NP	0.00	5.01	28.51	0.00
		04/21/97	NP	0.00	5.07	28.45	0.00
		07/30/97	NP	0.00	7.05	26.47	0.00
						SPH Recovered to Date:	**0.00**
MW-6	33.34	03/06/95	3.34	0.20	3.54	29.97	NA
		03/27/95	3.05	0.68	3.73	30.19	NA
		04/24/95	3.29	0.89	4.18	29.92	NA
		05/22/95	3.80	0.03	3.83	29.54	1.50
		06/19/95	4.64	0.00	4.64	28.70	1.34
		07/24/95	5.15	0.00	5.15	28.19	NA
		08/28/95	5.90	0.00	5.90	27.44	NA
		09/25/95	6.50	0.00	6.50	26.84	NA
		10/23/95	6.22	0.00	6.22	27.12	NA
		11/27/95	4.37	0.00	4.37	28.97	NA
		12/29/95	3.76	0.19	3.95	29.55	NA
		01/22/96	2.50	0.35	2.85	30.79	NA
		02/26/96	2.07	0.01	2.08	31.27	NA
		03/25/96	3.34	0.00	3.34	30.00	0.18
		04/22/96	3.18	0.00	3.18	30.16	NA
		05/28/96	3.23	0.00	3.23	30.11	0.06
		06/24/96	4.35	0.00	4.35	28.99	NA
		07/22/96	5.08	0.00	5.08	28.26	NA
		08/26/96	5.89	0.00	5.89	27.45	NA
		09/23/96	5.54	0.00	5.54	27.80	NA
		10/28/96	5.19	0.00	5.19	28.15	NA
		11/25/96	3.28	0.00	3.28	30.06	NA
		12/23/96	2.98	0.43	3.41	30.30	NA
		01/30/97	NP	0.00	2.77	30.57	0.00
		04/21/97	NP	0.00	3.25	30.09	0.00
		07/30/97	5.10	0.13	5.23	28.22	0.25
						SPH Recovered to Date:	**3.33**
MW-7	34.12	03/06/95	7.96	0.04	8.00	26.15	NA
		03/27/95	7.88	0.06	7.94	26.23	NA
		04/24/95	8.18	0.00	8.18	25.94	NA
		05/22/95	8.51	0.34	8.85	25.56	NA
		06/19/95	8.93	0.39	9.32	25.13	NA
		07/24/95	9.35	0.15	9.50	24.75	0.06
		08/28/95	9.79	0.21	10.00	24.30	NA
		09/25/95	10.13	0.38	10.51	23.93	NA
		10/23/95	7.04	0.43	7.47	27.02	NA
		11/27/95	9.00	0.00	9.00	25.12	NA
		12/29/95	8.13	0.03	8.16	25.99	0.37
		01/22/96	7.44	0.00	7.44	26.68	0.08
		02/26/96	6.20	0.00	6.20	27.92	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-7	34.12	03/25/96	7.50	0.20	7.70	26.59	NA
		04/22/96	7.84	0.11	7.95	26.26	0.12
		05/28/96	7.70	0.10	7.80	26.41	0.12
		06/24/96	8.36	0.12	8.48	25.74	0.37
		07/22/96	8.98	0.30	9.28	25.09	NA
		08/26/96	9.52	0.30	9.82	24.56	NA
		09/23/96	9.55	0.38	9.93	24.51	NA
		10/28/96	9.30	0.48	9.78	24.75	NA
		11/25/96	8.23	0.68	8.91	25.79	NA
		12/23/96	7.52	1.98	9.50	26.30	NA
		01/30/97	7.13	3.11	10.24	26.52	70.00
		04/21/97	7.91	1.81	9.72	25.94	57.00
		07/24/97	8.91	1.05	9.96	25.05	22.00
						SPH Recovered to Date:	**150.12**
MW-8	33.95	04/24/95	NA	0.00	7.27	26.68	NA
		07/24/95	NA	0.00	8.53	25.42	NA
		10/23/95	NA	0.00	9.45	24.50	NA
		01/22/96	NA	0.00	6.45	27.50	NA
		04/22/96	NA	0.00	6.99	26.96	NA
		07/22/96	NA	0.00	8.30	25.65	NA
		10/28/96	NA	0.00	8.76	25.19	NA
		01/30/97	NP	0.00	6.38	27.57	0.00
		04/21/97	NP	0.00	7.07	26.88	0.00
		07/30/97	NP	0.00	8.29	25.66	0.00
						SPH Recovered to Date:	**0.00**
MW-9	36.53	04/24/95	NA	0.00	9.67	26.86	NA
		07/24/95	NA	0.00	10.85	25.68	NA
		10/23/95	NA	0.00	11.86	24.67	NA
		01/22/96	NA	0.00	9.57	26.96	NA
		04/22/96	NA	0.00	9.47	27.06	NA
		07/22/96	NA	0.00	10.34	26.19	NA
		10/28/96	NA	0.00	11.32	25.21	NA
		01/30/97	NP	0.00	894.00	0.00	0.00
		04/21/97	9.51	0.01	9.52	27.02	0.10
		07/24/97	NP	0.00	10.28	26.25	0.00
						SPH Recovered to Date:	**0.10**
MW-10	35.82	04/24/95	NA	0.00	8.54	27.28	NA
		07/24/95	NA	0.00	10.25	25.57	NA
		10/23/95	NA	0.00	11.20	24.62	NA
		01/22/96	NA	0.00	7.31	28.51	NA
		04/22/96	NA	0.00	8.09	27.73	NA
		07/22/96	NA	0.00	9.87	25.95	NA
		10/28/96	NA	0.00	10.22	25.60	NA
		01/30/97	NP	0.00	7.40	28.42	0.00
		04/21/97	NP	0.00	8.40	27.42	0.00
		07/30/97	NP	0.00	9.98	25.84	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
						SPH Recovered to Date:	**0.00**
MW-11	36.47	03/06/95	NA	0.00	5.09	31.38	NA
		03/27/95	5.25	0.00	5.25	31.22	NA
		04/24/95	5.36	0.00	5.36	31.11	NA
		05/22/95	6.11	0.00	6.11	30.36	NA
		06/19/95	6.52	0.00	6.52	29.95	NA
		07/24/95	7.10	0.00	7.10	29.37	NA
		08/28/95	8.00	0.00	8.00	28.47	NA
		09/25/95	8.12	0.00	8.12	28.35	NA
		10/23/95	7.39	0.00	7.39	29.08	NA
		11/27/95	5.25	0.00	5.25	31.22	NA
		12/29/95	5.65	0.00	5.65	30.82	NA
		01/22/96	4.50	0.00	4.50	31.97	NA
		01/30/96	NP	0.00	5.20	31.27	0.00
		02/26/96	3.69	0.00	3.69	32.78	NA
		03/25/96	5.50	0.00	5.50	30.97	NA
		04/22/96	5.15	0.00	5.15	31.32	NA
		05/28/96	5.29	0.00	5.29	31.18	NA
		06/24/96	6.27	0.00	6.27	30.20	NA
		07/22/96	7.04	0.00	7.04	29.43	NA
		08/26/96	7.86	0.00	7.86	28.61	NA
		09/23/96	7.20	0.00	7.20	29.27	NA
		10/28/96	6.33	0.00	6.33	30.14	NA
		11/25/96	4.94	0.00	4.94	31.53	NA
		12/23/96	4.68	3.00	7.68	31.34	NA
		01/30/97	NP	0.00	5.20	31.27	0.00
		04/21/97	NP	0.00	5.41	31.06	0.00
		07/30/97	NP	0.00	7.05	29.42	0.00
						SPH Recovered to Date:	**0.00**
MW-12	35.95	04/24/95	NA	0.00	5.22	30.73	NA
		07/24/95	NA	0.00	7.30	28.65	NA
		10/23/95	NA	0.00	8.33	27.62	NA
		01/22/96	NA	0.00	3.83	32.12	NA
		04/22/96	NA	0.00	4.34	31.61	NA
		07/22/96	NA	0.00	7.15	28.80	NA
		10/28/96	NA	0.00	7.37	28.58	NA
		01/30/97	NP	0.00	4.26	31.69	0.00
		04/21/97	NP	0.00	5.05	30.90	0.00
		07/30/97	NP	0.00	7.27	28.68	0.00
						SPH Recovered to Date:	**0.00**
MW-13	37.89	04/24/95	NA	0.00	4.41	33.48	NA
		07/24/95	NA	0.00	6.29	31.60	NA
		10/23/95	NA	0.00	6.67	31.22	NA
		01/22/96	NA	0.00	3.65	34.24	NA
		04/22/96	NA	0.00	4.18	33.71	NA
		07/22/96	NA	0.00	6.28	31.61	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-13	37.89	10/28/96	NA	0.00	5.61	32.28	NA
		01/30/97	NP	0.00	4.22	33.67	0.00
		04/21/97	NP	0.00	4.28	33.61	0.00
		07/30/97	NP	0.00	6.27	31.62	0.00
						SPH Recovered to Date:	**0.00**
MW-14	36.28	04/24/95	NA	0.00	3.33	32.95	NA
		07/24/95	NA	0.00	5.62	30.66	NA
		10/23/95	NA	0.00	5.96	30.32	NA
		01/22/96	NA	0.00	2.71	33.57	NA
		04/22/96	NA	0.00	3.25	33.03	NA
		07/22/96	NA	0.00	5.68	30.60	NA
		10/28/96	NA	0.00	5.30	30.98	NA
		01/30/97	NP	0.00	3.28	33.00	0.00
		04/21/97	NP	0.00	3.29	32.99	0.00
		07/30/97	NP	0.00	5.64	30.64	0.00
						SPH Recovered to Date:	**0.00**
MW-15	37.50	01/30/97	NP	0.00	3.28	34.22	0.00
		04/21/97	NP	0.00	4.85	32.65	0.00
		07/30/97	NP	0.00	7.92	29.58	0.00
						SPH Recovered to Date:	**0.00**
MW-16	34.93	07/24/95	NA	0.00	5.78	29.15	NA
		10/23/95	NA	0.00	6.73	28.20	NA
		01/22/96	NA	0.00	2.44	32.49	NA
		04/22/96	NA	0.00	3.46	31.47	NA
		07/22/96	NA	0.00	5.63	29.30	NA
		10/28/96	NA	0.00	5.90	29.03	NA
		01/30/97	NP	0.00	3.15	31.78	0.00
		04/21/97	NP	0.00	3.44	31.49	0.00
		07/30/97	NP	0.00	5.65	29.28	0.00
						SPH Recovered to Date:	**0.00**
MW-17	36.05	01/30/97	NP	0.00	4.27	31.78	0.00
		04/21/97	NP	0.00	4.39	31.66	0.00
		07/30/97	NP	0.00	5.28	30.77	0.00
						SPH Recovered to Date:	**0.00**
MW-18	33.76	04/24/95	NA	0.00	1.66	32.10	NA
		07/24/95	NA	0.00	3.02	30.74	NA
		10/23/95	NA	0.00	3.43	30.33	NA
		01/22/96	NA	0.00	1.08	32.68	NA
		04/22/96	NA	0.00	0.89	32.87	NA
		07/22/96	NA	0.00	2.83	30.93	NA
		10/28/96	NA	0.00	2.48	31.28	NA
		01/30/97	NP	0.00	1.24	32.52	0.00
		04/21/97	NP	0.00	1.23	32.53	0.00
		07/30/97	NP	0.00	2.66	31.10	0.00
						SPH Recovered to Date:	**0.00**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-19	33.39	03/06/95	2.77	0.49	3.26	30.55	NA
		03/27/95	2.57	0.51	3.08	30.74	NA
		04/24/95	2.79	0.54	3.33	30.52	NA
		05/22/95	3.19	0.51	3.70	30.12	NA
		06/19/95	3.87	0.61	4.48	29.43	NA
		07/24/95	4.41	0.01	4.42	28.98	0.31
		08/28/95	5.64	0.00	5.64	27.75	0.03
		09/25/95	6.80	0.00	6.80	26.59	NA
		10/23/95	5.48	0.00	5.48	27.91	NA
		11/27/95	3.79	0.00	3.79	29.60	NA
		12/29/95	3.23	0.00	3.23	30.16	NA
		01/22/96	2.18	0.00	2.18	31.21	NA
		02/26/96	1.57	0.00	1.57	31.82	NA
		03/25/96	2.56	0.00	2.56	30.83	NA
		04/22/96	1.77	0.00	1.77	31.62	NA
		05/28/96	2.11	0.00	2.11	31.28	NA
		06/24/96	2.93	0.00	2.93	30.46	NA
		07/22/96	3.61	0.00	3.61	29.78	NA
		08/26/96	4.31	0.00	4.31	29.08	NA
		09/23/96	3.65	0.00	3.65	29.74	NA
		10/28/96	1.95	0.00	1.95	31.44	NA
		11/25/96	1.63	0.00	1.63	31.76	NA
		12/23/96	1.86	0.00	1.86	31.53	NA
		01/30/97	NP	0.00	1.86	31.53	0.00
		04/21/97	NP	0.00	2.23	31.16	0.00
		07/30/97	NP	0.00	3.79	29.60	0.00
						SPH Recovered to Date:	**0.34**
MW-20	34.76	04/24/95	NA	0.00	9.55	25.21	NA
		07/24/95	NA	0.00	10.73	24.03	NA
		10/23/95	NA	0.00	11.35	23.41	NA
		01/22/96	NA	0.00	8.50	26.26	NA
		04/22/96	NA	0.00	9.53	25.23	NA
		07/22/96	NA	0.00	10.41	24.35	NA
		09/23/96	11.08	0.00	11.08	23.68	NA
		10/28/96	NA	0.00	10.74	24.02	NA
		11/25/96	NA	0.00	9.19	25.57	NA
		12/23/96	NA	0.00	9.05	25.71	NA
		01/30/97	NP	0.00	8.03	26.73	0.00
		04/21/97	NP	0.00	9.35	25.41	0.00
		07/30/97	NP	0.00	10.45	24.31	0.00
						SPH Recovered to Date:	**0.00**
MW-21	34.33	04/24/95	NA	0.00	1.48	32.85	NA
		07/24/95	NA	0.00	2.21	32.12	NA
		10/23/95	NA	0.00	2.04	32.29	NA
		01/22/96	NA	0.00	1.08	33.25	NA
		04/22/96	NA	0.00	0.78	33.55	NA
		07/22/96	NA	0.00	2.24	32.09	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-21	34.33	10/28/96	NA	0.00	1.97	32.36	NA
		01/30/97	NP	0.00	1.15	33.18	0.00
		04/21/97	NP	0.00	1.13	33.20	0.00
		07/30/97	NP	0.00	2.05	32.28	0.00
						SPH Recovered to Date:	**0.00**
MW-22	35.65	03/06/95	NA	0.00	3.32	32.33	NA
		03/27/95	3.23	0.00	3.23	32.42	NA
		04/24/95	3.25	0.00	3.25	32.40	NA
		05/22/95	3.93	0.00	3.93	31.72	NA
		06/19/95	4.34	0.00	4.34	31.31	NA
		07/24/95	4.83	0.00	4.83	30.82	NA
		08/28/95	5.35	0.00	5.35	30.30	NA
		09/25/95	5.94	0.00	5.94	29.71	NA
		10/23/95	5.24	0.00	5.24	30.41	NA
		11/27/95	4.04	0.00	4.04	31.61	NA
		12/28/95	3.26	0.00	3.26	32.39	NA
		01/22/96	2.77	0.00	2.77	32.88	NA
		02/26/96	2.42	0.00	2.42	33.23	NA
		03/25/96	3.47	0.00	3.47	32.18	NA
		04/22/96	3.32	0.00	3.32	32.33	NA
		05/28/96	3.06	0.00	3.06	32.59	NA
		06/24/96	3.93	0.00	3.93	31.72	NA
		07/22/96	4.55	0.00	4.55	31.10	NA
		08/26/96	6.85	0.00	6.85	28.80	NA
		09/23/96	5.66	0.00	5.66	29.99	NA
		10/28/96	4.80	0.00	4.80	30.85	NA
		11/25/96	3.96	0.00	3.96	31.69	NA
		12/23/96	3.20	0.00	3.20	32.45	NA
		01/30/97	NP	0.00	3.72	31.93	0.00
		04/21/97	NP	0.00	3.27	32.38	0.00
		07/30/97	NP	0.00	4.73	30.92	0.00
						SPH Recovered to Date:	**0.00**
MW-23	36.06	03/27/95	9.42	0.00	9.42	26.64	NA
		04/24/95	3.97	0.00	3.97	32.09	NA
		05/22/95	4.50	0.00	4.50	31.56	NA
		06/26/95	4.75	0.00	4.75	31.31	NA
		07/24/95	5.07	0.00	5.07	30.99	NA
		08/28/95	5.44	0.11	5.55	30.60	NA
		10/23/95	5.15	0.00	5.15	30.91	NA
		11/27/95	3.56	0.00	3.56	32.50	NA
		12/28/95	4.27	0.00	4.27	31.79	NA
		01/22/96	NA	0.00	3.49	32.57	NA
		02/26/96	3.59	0.00	3.59	32.47	NA
		03/25/96	4.24	0.00	4.24	31.82	NA
		04/22/96	3.23	0.00	3.23	32.83	NA
		05/28/96	3.97	0.00	3.97	32.09	NA
		06/24/96	4.46	0.00	4.46	31.60	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-23	36.06	07/22/96	5.02	0.03	5.05	31.04	NA
		08/28/96	5.80	0.00	5.80	30.26	NA
		09/23/96	5.30	0.06	5.36	30.75	NA
		09/25/96	5.78	0.22	6.00	30.25	NA
		10/28/96	4.73	0.00	4.73	31.33	NA
		11/25/96	3.75	0.00	3.75	32.31	NA
		12/23/96	3.68	0.00	3.68	32.38	NA
		01/30/97	NP	0.00	3.46	32.60	0.00
		04/21/97	NP	0.00	3.89	32.17	0.00
		07/30/97	NP	0.00	5.15	30.91	0.00
						SPH Recovered to Date:	**0.00**
MW-24	35.15	03/06/95	4.15	0.83	4.98	30.88	NA
		04/24/95	5.31	0.94	4.37	31.58	NA
		05/22/95	4.96	0.01	4.95	30.21	NA
		06/26/95	6.50	1.90	8.40	28.36	NA
		07/24/95	7.25	0.24	7.49	27.86	NA
		08/28/95	8.42	1.58	10.00	26.49	NA
		12/01/95	NM	0.00	NM	0.00	28.10
		03/27/96	4.28	0.90	5.18	30.74	NA
		12/01/96	NM	0.00	NM	0.00	1.20
		01/30/97	NP	0.00	5.10	30.05	0.00
		04/21/97	NP	0.00	4.89	30.26	0.00
		07/30/97	8.30	0.16	8.46	26.83	0.25
						SPH Recovered to Date:	**29.55**
MW-25	34.73	04/22/96	10.00	0.24	10.24	24.69	NA
		09/23/96	11.69	0.00	11.69	23.04	NA
		10/28/96	NA	0.00	11.22	23.51	NA
		11/25/96	NA	0.00	9.95	24.78	NA
		12/23/96	NA	0.00	9.72	25.01	NA
		01/30/97	NP	0.00	9.37	25.36	0.00
		04/21/97	9.90	0.01	9.91	24.83	0.10
		07/24/97	NP	0.00	10.92	23.81	0.00
						SPH Recovered to Date:	**0.10**
MW-26	34.78	07/22/96	11.39	0.43	11.82	23.33	NA
		09/11/96	10.00	0.24	10.24	24.74	NA
		09/23/96	11.85	0.25	12.10	22.89	NA
		10/28/96	11.38	0.03	11.41	23.40	NA
		11/25/96	10.36	0.00	10.36	24.42	NA
		12/23/96	10.39	0.00	10.39	24.39	NA
		01/30/97	NP	0.00	10.35	24.43	0.00
		04/21/97	-	0.00	10.32	24.46	0.10
		07/30/97	11.42	0.01	11.43	23.36	0.10
						SPH Recovered to Date:	**0.20**
MW-27	35.67	02/26/96	3.94	0.00	3.94	31.73	NA
		03/25/96	4.73	0.00	4.73	30.94	NA
		04/22/96	3.71	0.00	3.71	31.96	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-27	35.67	05/28/96	4.54	0.00	4.54	31.13	NA
		06/24/96	5.34	0.00	5.34	30.33	NA
		07/22/96	5.73	0.00	5.73	29.94	NA
		08/26/96	5.96	0.00	5.96	29.71	NA
		09/23/96	6.81	0.00	6.81	28.86	NA
		10/28/96	5.35	0.00	5.35	30.32	NA
		11/25/96	3.34	0.00	3.34	32.33	NA
		12/23/96	4.04	0.00	4.04	31.63	NA
		01/30/97	NP	0.00	4.37	31.30	0.00
		04/21/97	NP	0.00	4.44	31.23	0.00
		07/30/97	NP	0.00	5.69	29.98	0.00
						SPH Recovered to Date:	**0.00**
MW-28	34.39	03/06/95	NA	0.00	4.41	29.98	NA
		03/27/95	4.74	0.01	4.75	29.65	NA
		04/24/95	5.26	0.00	5.26	29.13	NA
		05/22/95	6.00	0.02	6.02	28.39	NA
		06/26/95	6.50	0.09	6.59	27.88	NA
		07/24/95	6.94	0.00	6.94	27.45	NA
		08/28/95	8.04	0.01	8.05	26.35	0.75
		10/23/95	7.60	0.00	7.60	26.79	NA
		11/27/95	4.04	0.00	4.04	30.35	0.03
		12/28/95	4.25	0.00	4.25	30.14	NA
		01/22/96	2.29	0.00	2.29	32.10	NA
		02/26/96	3.78	0.00	3.78	30.61	NA
		03/25/96	5.10	0.00	5.10	29.29	NA
		04/22/96	4.22	0.00	4.22	30.17	NA
		05/28/96	4.66	0.00	4.66	29.73	NA
		06/24/96	6.01	0.00	6.01	28.38	NA
		07/22/96	6.77	0.00	6.77	27.62	NA
		08/28/96	7.56	0.00	7.56	26.83	NA
		09/23/96	6.28	0.00	6.28	28.11	NA
		09/25/96	11.75	0.00	11.75	22.64	1.03
		10/28/96	5.03	0.00	5.03	29.36	NA
		11/25/96	2.50	0.00	2.50	31.89	NA
		12/23/96	4.38	0.01	4.39	30.01	NA
		01/30/97	NP	0.00	3.71	30.68	0.00
		04/21/97	4.72	0.03	4.75	29.67	0.50
		07/30/97	NP	0.00	6.30	28.09	0.00
						SPH Recovered to Date:	**2.31**
MW-29	35.77	04/24/95	NA	0.00	13.34	22.43	NA
		07/24/95	NA	0.00	14.20	21.57	NA
		10/23/95	NA	0.00	14.86	20.91	NA
		01/22/96	NA	0.00	12.70	23.07	NA
		04/22/96	NA	0.00	12.75	23.02	NA
		07/22/96	NA	0.00	13.64	22.13	NA
		10/28/96	NA	0.00	14.15	21.62	NA
		01/30/97	NP	0.00	13.41	22.36	0.00

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-29	35.77	04/21/97	NP	0.00	12.89	22.88	0.00
		07/30/97	NP	0.00	13.58	22.19	0.00
						SPH Recovered to Date:	**0.00**
MW-30	36.39	01/30/97	NP	0.00	4.43	31.96	0.00
		04/21/97	NP	0.00	4.65	31.74	0.00
		07/30/97	NP	0.00	6.00	30.39	0.00
						SPH Recovered to Date:	**0.00**
MW-31	37.55	03/06/95	NA	0.00	5.64	31.91	NA
		03/27/95	5.75	0.01	5.76	31.80	NA
		04/24/95	6.09	0.00	6.09	31.46	NA
		05/22/95	6.70	0.00	6.70	30.85	NA
		06/26/95	7.26	0.00	7.26	30.29	NA
		07/24/95	7.74	0.00	7.74	29.81	NA
		08/28/95	8.41	0.00	8.41	29.14	NA
		10/23/95	8.56	0.00	8.56	28.99	NA
		11/27/95	6.33	0.00	6.33	31.22	NA
		12/28/95	5.90	0.00	5.90	31.65	NA
		01/22/96	4.62	0.00	4.62	32.93	NA
		02/26/96	4.92	0.00	4.92	32.63	NA
		03/25/96	6.02	0.00	6.02	31.53	NA
		04/22/96	5.57	0.00	5.57	31.98	NA
		05/28/96	5.73	0.00	5.73	31.82	NA
		06/24/96	6.72	0.00	6.72	30.83	NA
		07/22/96	7.38	0.00	7.38	30.17	NA
		08/28/96	8.02	0.00	8.02	29.53	NA
		09/23/96	7.48	0.00	7.48	30.07	NA
		09/25/96	8.96	0.00	8.96	28.59	NA
		10/28/96	6.68	0.00	6.68	30.87	NA
		11/25/96	4.92	0.00	4.92	32.63	NA
		12/23/96	5.08	0.00	5.08	32.47	NA
		01/30/97	NP	0.00	5.45	32.10	0.00
		04/21/97	NP	0.00	5.73	31.82	0.00
		07/30/97	NP	0.00	7.32	30.23	0.00
						SPH Recovered to Date:	**0.00**
MW-32	37.01	04/24/95	NA	0.00	4.27	32.74	NA
		07/24/95	NA	0.00	5.75	31.26	NA
		10/23/95	NA	0.00	6.40	30.61	NA
		04/22/96	NA	0.00	3.89	33.12	NA
		07/22/96	NA	0.00	5.45	31.56	NA
		10/28/96	NA	0.00	5.59	31.42	NA
		01/30/97	NP	0.00	4.37	32.64	0.00
		04/21/97	NP	0.00	4.02	32.99	0.00
		07/30/97	NP	0.00	5.49	31.52	0.00
						SPH Recovered to Date:	**0.00**
MW-33	39.34	04/24/95	NA	0.00	19.93	19.41	NA
		07/24/95	NA	0.00	20.68	18.66	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-33	39.34	10/23/95	NA	0.00	21.05	18.29	NA
		01/22/96	NA	0.00	19.07	20.27	NA
		04/22/96	NA	0.00	19.48	19.86	NA
		07/22/96	NA	0.00	20.26	19.08	NA
		10/28/96	NA	0.00	20.58	18.76	NA
		01/30/97	NP	0.00	18.92	20.42	0.00
		04/21/97	NP	0.00	19.61	19.73	0.00
		07/30/97	NP	0.00	20.03	19.31	0.00
						SPH Recovered to Date:	**0.00**
MW-34	39.67	04/24/95	NA	0.00	19.40	20.27	NA
		07/24/95	NA	0.00	19.99	19.68	NA
		10/23/95	NA	0.00	20.26	19.41	NA
		01/22/96	NA	0.00	18.71	20.96	NA
		04/22/96	NA	0.00	19.43	20.24	NA
		07/22/96	NA	0.00	19.74	19.93	NA
		10/28/96	NA	0.00	20.18	19.49	NA
	33.39	01/30/97	NP	0.00	18.78	14.61	0.00
		04/21/97	NP	0.00	19.41	20.26	0.00
		07/30/97	NP	0.00	19.76	13.63	0.00
						SPH Recovered to Date:	**0.00**
MW-35	33.39	01/30/97	NP	0.00	2.08	31.31	0.00
		04/21/97	NP	0.00	2.58	30.81	0.00
						SPH Recovered to Date:	**0.00**
MW-36	34.88	04/24/95	NA	0.00	19.40	15.48	NA
		07/24/95	NA	0.00	19.99	14.89	NA
		10/23/95	NA	0.00	20.26	14.62	NA
		01/22/96	NA	0.00	13.74	21.14	NA
		04/22/96	NA	0.00	13.72	21.16	NA
		07/22/96	NA	0.00	14.90	19.98	NA
		10/28/96	NA	0.00	15.54	19.34	NA
		01/30/97	NP	0.00	13.02	21.86	0.00
		04/21/97	NP	0.00	13.98	20.90	0.00
		07/30/97	NP	0.00	14.51	20.37	0.00
						SPH Recovered to Date:	**0.00**
MW-37	34.86	04/24/95	NA	0.00	14.96	19.90	NA
		07/24/95	NA	0.00	15.88	18.98	NA
		10/23/95	NA	0.00	16.37	18.49	NA
		01/22/96	NA	0.00	14.22	20.64	NA
		04/22/96	NA	0.00	13.72	21.14	NA
		07/22/96	NA	0.00	15.28	19.58	NA
		10/28/96	NA	0.00	15.80	19.06	NA
		01/30/97	NP	0.00	13.44	21.42	NA
		04/21/97	NP	0.00	14.48	20.38	NA
		07/30/97	NP	0.00	15.15	19.71	0.00
						SPH Recovered to Date:	**0.00**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			GATX (continued)				
MW-38	34.86	01/30/97	NP	0.00	3.98	30.88	0.00
		04/21/97	NP	0.00	4.84	30.02	0.00
						SPH Recovered to Date:	**0.00**
MW-39	35.02	06/24/96	13.01	0.00	13.01	22.01	NA
		07/22/96	13.45	0.00	13.45	21.57	NA
		08/26/96	13.90	0.00	13.90	21.12	NA
		09/23/96	14.08	0.00	14.08	20.94	NA
		10/28/96	14.00	0.00	14.00	21.02	NA
		11/25/96	13.54	0.00	13.54	21.48	NA
		12/23/96	12.77	0.00	12.77	22.25	NA
		01/30/97	NM	0.00	NM	0.00	0.00
		04/21/97	NM	0.00	NM	0.00	0.00
						SPH Recovered to Date:	**0.00**
MW-40	33.65	06/24/96	13.81	0.00	13.81	19.84	NA
		07/22/96	14.32	0.00	14.32	19.33	NA
		08/26/96	14.77	0.00	14.77	18.88	NA
		09/23/96	14.83	0.00	14.83	18.82	NA
		10/28/96	14.63	0.00	14.63	19.02	NA
		11/25/96	13.78	0.00	13.78	19.87	NA
		12/23/96	13.37	0.00	13.37	20.28	NA
		01/30/97	NP	0.00	12.74	20.91	0.00
		04/21/97	NP	0.00	13.65	20.00	0.00
		07/30/97	NP	0.00	14.24	19.41	0.00
						SPH Recovered to Date:	**0.00**
						GATX total SPH Recovered to Date:	**186.05**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco				
B-1	34.79	04/24/95	17.42	0.49	17.91	17.30	NA
		05/22/95	17.57	0.47	18.04	17.15	NA
		06/26/95	17.75	0.48	18.23	16.97	NA
		07/24/95	17.98	0.02	18.00	16.81	0.00
		08/28/95	18.32	0.02	18.34	16.47	NA
		09/25/95	18.37	0.14	18.51	16.40	NA
		10/23/95	18.30	0.01	18.31	16.49	NA
		11/27/95	17.94	0.03	17.97	16.85	0.01
		12/28/95	16.75	0.16	16.91	18.02	0.85
		01/22/96	16.73	0.12	16.85	18.04	0.01
		02/26/96	13.40	0.02	13.42	21.39	0.08
		04/22/96	16.20	0.15	16.35	18.57	0.01
		05/28/96	16.21	0.00	16.21	18.58	NA
		06/24/96	16.68	0.01	16.69	18.11	NA
		07/22/96	17.20	0.02	17.22	17.59	NA
		08/23/96	17.49	0.03	17.52	17.30	NA
		09/23/96	17.72	0.01	17.73	17.07	NA
		10/28/96	17.18	0.01	17.19	17.61	NA
		01/31/97	15.94	0.16	16.10	18.83	NA
		04/21/97	16.87	0.12	16.99	17.90	NA
		07/28/97	17.15	0.65	17.80	17.54	NA
						SPH Recovered to Date:	**0.96**
B-2	35.35	03/28/95	NA	0.00	16.84	18.51	NA
		04/24/95	NA	0.00	17.02	18.33	NA
		05/22/95	NA	0.00	17.22	18.13	NA
		06/26/95	NA	0.00	17.48	17.87	NA
		08/28/95	19.58	0.26	19.84	15.73	NA
		09/25/95	NA	0.00	18.18	17.17	NA
		10/23/95	NA	0.00	18.15	17.20	NA
		12/28/95	NA	0.00	16.56	18.79	NA
		01/22/96	16.48	0.02	16.50	18.87	NA
		04/22/96	NA	0.00	16.28	19.07	NA
		05/28/96	NA	0.00	16.14	19.21	NA
		06/24/96	NA	0.00	16.50	18.85	NA
		07/22/96	NA	0.00	16.99	18.36	NA
		08/23/96	NA	0.00	17.48	17.87	NA
		09/23/96	NA	0.00	17.50	17.85	NA
		10/28/96	NA	0.00	17.60	17.75	NA
		01/31/97	NP	0.00	15.69	19.66	0.00
		04/21/97	NP	0.00	16.52	18.83	0.00
		07/28/97	NP	0.00	16.94	18.41	0.00
						SPH Recovered to Date:	**0.00**
B-3	36.79	01/31/97	NP	0.00	17.26	19.53	0.00
		04/21/97	NP	0.00	18.48	18.31	0.00
		07/28/97	NP	0.00	18.83	17.96	0.00
						SPH Recovered to Date:	**0.00**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco				
B-4	34.79	03/28/95	17.92	0.71	18.63	16.76	NA
		04/24/95	18.01	1.16	19.17	16.61	NA
		05/22/95	18.11	1.13	19.24	16.51	NA
		06/26/95	18.27	1.01	19.28	16.37	NA
		07/24/95	18.53	0.11	18.64	16.24	0.15
		08/28/95	18.62	0.01	18.63	16.17	NA
		09/25/95	18.82	0.13	18.95	15.95	NA
		10/23/95	18.83	0.02	18.85	15.96	NA
		11/27/95	18.56	0.06	18.62	16.22	0.37
		01/22/96	17.60	0.04	17.64	17.18	0.24
		02/26/96	NA	0.00	13.68	21.11	NA
		04/22/96	16.35	0.09	16.44	18.43	0.02
		05/28/96	16.35	0.07	16.42	18.43	0.02
		08/23/96	18.35	0.00	18.35	16.44	NA
		09/23/96	18.44	0.01	18.45	16.35	NA
		10/28/96	17.56	1.03	18.59	17.08	NA
		01/31/97	17.00	0.48	17.48	17.72	3.25
		04/21/97	NP	0.00	17.71	17.08	0.10
		07/28/97	18.50	0.02	18.52	16.29	0.10
						SPH Recovered to Date:	**4.25**
B-5	34.79	01/22/96	NA	0.00	16.18	18.61	NA
		02/26/96	NA	0.00	14.40	20.39	NA
		05/28/96	NA	0.00	15.59	19.20	NA
		06/24/96	DRY	0.00	DRY	0.00	DRY
		07/22/96	DRY	0.00	DRY	0.00	DRY
		08/23/96	DRY	0.00	DRY	0.00	DRY
		09/23/96	NA	0.00	17.02	17.77	NA
		10/28/96	NA	0.00	17.10	17.69	NA
	34.83	01/31/97	NP	0.00	15.30	19.53	0.00
		04/21/97	NP	0.00	16.08	18.75	0.00
		07/28/97	NP	0.00	16.54	18.29	0.00
						SPH Recovered to Date:	**0.00**
B-6	35.41	01/22/96	NP	0.00	16.44	18.97	NA
		02/26/96	NP	0.00	15.60	19.81	NA
		04/22/96	NA	0.00	16.15	19.26	NA
		05/28/96	NA	0.00	16.11	19.30	NA
		06/24/96	NA	0.00	16.47	18.94	NA
		07/22/96	NA	0.00	16.91	18.50	NA
		08/23/96	NA	0.00	17.99	17.42	NA
		09/23/96	NA	0.00	17.45	17.96	NA
		10/28/96	NA	0.00	17.34	18.07	NA
		01/31/97	NP	0.00	15.47	19.94	0.00
		04/21/97	NP	0.00	16.31	19.10	0.00
		07/28/97	NP	0.00	16.87	18.54	0.00
						SPH Recovered to Date:	**0.00**
B-16	35.82	03/24/95	NA	0.00	16.99	18.83	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-16	35.82	04/24/95	NA	0.00	17.12	18.70	NA
		05/22/95	NA	0.00	17.37	18.45	NA
		06/19/95	NA	0.00	17.59	18.23	NA
		07/24/95	NA	0.00	17.89	17.93	NA
		08/28/95	NA	0.00	18.10	17.72	NA
		09/25/95	NA	0.00	18.35	17.47	NA
		10/23/95	NA	0.00	18.30	17.52	NA
		11/27/95	NA	0.00	17.90	17.92	NA
		01/22/96	0.00	16.75	16.75	33.31	NA
		02/26/96	NA	0.00	13.30	22.52	NA
		04/22/96	NA	0.00	16.04	19.78	NA
		05/28/96	NA	0.00	16.39	19.43	NA
		06/24/96	NA	0.00	16.71	19.11	NA
		07/22/96	NA	0.00	17.19	18.63	NA
		09/23/96	NA	0.00	17.76	18.06	NA
		10/28/96	NA	0.00	17.82	18.00	NA
		01/31/97	NP	0.00	15.75	20.07	0.00
		04/21/97	NP	0.00	16.65	19.17	0.00
		07/28/97	NP	0.00	17.15	18.67	0.00
						SPH Recovered to Date:	**0.00**
B-17	35.59	03/28/95	16.95	0.00	16.95	18.64	NA
		04/24/95	NA	0.00	17.15	18.44	NA
		05/22/95	17.36	0.00	17.36	18.23	NA
		06/26/95	17.61	0.00	17.61	17.98	NA
		07/24/95	17.79	0.01	17.80	17.80	NA
		08/28/95	18.78	0.01	18.79	16.81	NA
		09/25/95	NA	0.00	18.23	17.36	NA
		10/23/95	NA	0.00	18.21	17.38	NA
		11/27/95	17.85	0.00	17.85	17.74	NA
		12/28/95	NA	0.00	16.85	18.74	NA
		01/22/96	NA	0.00	16.78	18.81	NA
		02/26/96	13.35	0.01	13.36	22.24	NA
		04/22/96	16.44	0.00	16.44	19.15	NA
		05/28/96	16.40	0.00	16.40	19.19	NA
		06/24/96	16.40	0.00	16.40	19.19	NA
		07/22/96	17.16	0.00	17.16	18.43	NA
		08/23/96	17.57	0.00	17.57	18.02	NA
		09/23/96	NA	0.00	17.68	17.91	NA
		10/28/96	NA	0.00	17.75	17.84	NA
		01/31/97	NP	0.00	15.86	19.73	0.00
		04/21/97	NP	0.00	16.66	18.93	0.00
		07/28/97	NP	0.00	17.15	18.44	0.00
						SPH Recovered to Date:	**0.00**
B-18	35.79	03/28/95	NA	0.00	19.28	16.51	NA
		04/24/95	NA	0.00	19.38	16.41	NA
		05/22/95	NA	0.00	19.44	16.35	NA
		06/26/95	NA	0.00	19.56	16.23	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-18	35.79	07/24/95	NA	0.00	19.74	16.05	NA
		08/28/95	NA	0.00	19.43	16.36	NA
		09/25/95	NA	0.00	20.02	15.77	NA
		10/23/95	NA	0.00	20.08	15.71	NA
		12/28/95	NA	0.00	18.66	17.13	NA
		01/22/96	0.00	18.20	18.20	33.06	NA
		02/26/96	0.00	18.38	18.38	33.03	NA
		04/22/96	NA	0.00	18.50	17.29	NA
		05/28/96	NA	0.00	17.84	17.95	NA
		06/24/96	NA	0.00	18.35	17.44	NA
		07/22/96	NA	0.00	18.97	16.82	NA
		08/23/96	NA	0.00	17.50	18.29	NA
		09/23/96	NA	0.00	19.43	16.36	NA
		10/28/96	NA	0.00	19.47	16.32	NA
		01/31/97	NP	0.00	18.09	17.70	0.00
		04/21/97	NP	0.00	18.94	16.85	0.00
		07/28/97	NP	0.00	19.14	16.65	0.00
						SPH Recovered to Date:	**0.00**
B-22	35.83	03/28/95	NA	0.00	18.50	17.33	NA
		04/24/95	NA	0.00	19.10	16.73	NA
		05/22/95	NA	0.00	19.09	16.74	NA
		06/26/95	NA	0.00	19.26	16.57	NA
		09/25/95	NA	0.00	20.50	15.33	NA
		10/23/95	NA	0.00	19.96	15.87	NA
		12/28/95	NA	0.00	18.59	17.24	0.02
		01/22/96	NA	0.00	18.88	16.95	NA
		02/26/96	NA	0.00	12.05	23.78	NA
		04/22/96	NA	0.00	17.75	18.08	NA
		05/28/96	NA	0.00	17.31	18.52	NA
		06/24/96	NA	0.00	18.12	17.71	NA
		07/22/96	NA	0.00	19.09	16.74	NA
		08/23/96	NA	0.00	19.03	16.80	NA
		09/23/96	NA	0.00	19.79	16.04	NA
		10/28/96	NA	0.00	19.75	16.08	NA
		01/31/97	17.92	0.01	17.93	17.91	0.10
		04/21/97	NP	0.00	18.67	17.16	0.00
		07/28/97	18.89	2.26	21.15	16.60	1.00
						SPH Recovered to Date:	**1.12**
B-25	37.60	04/21/97	NP	0.00	15.29	22.31	0.00
						SPH Recovered to Date:	**0.00**
B-27	35.74	03/28/95	17.25	0.27	17.52	18.45	NA
		04/24/95	17.70	0.31	18.01	17.99	NA
		05/22/95	17.85	0.32	18.17	17.84	NA
		06/26/95	17.91	1.12	19.03	17.66	NA
		07/24/95	18.11	1.14	19.25	17.46	NA
		08/28/95	18.75	0.50	19.25	16.92	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-27	35.74	09/25/95	18.50	1.10	19.60	17.08	NA
		10/23/95	18.59	1.10	19.69	16.99	NA
		11/27/95	18.50	0.30	18.80	17.19	0.80
		01/22/96	17.44	0.43	17.87	18.24	0.78
		02/26/96	13.38	0.31	13.69	22.31	0.25
		04/22/96	16.68	0.27	16.95	19.02	0.12
		08/23/96	18.12	0.56	18.68	17.54	0.31
		09/23/96	18.34	0.36	18.70	17.35	NA
		10/28/96	18.58	0.11	18.69	17.14	NA
		01/31/97	16.43	2.20	18.63	18.98	4.00
		04/21/97	17.37	0.13	17.50	18.35	0.60
		07/25/97	NP	0.00	17.86	17.88	0.00
						SPH Recovered to Date:	**6.86**
B-35	33.58	04/24/95	16.10	0.23	16.33	17.45	NA
		05/22/95	16.24	0.19	16.43	17.31	NA
		06/26/95	16.45	0.23	16.68	17.10	NA
		07/24/95	16.65	0.21	16.86	16.90	NA
		08/28/95	17.35	0.17	17.52	16.20	NA
		09/25/95	17.02	0.30	17.32	16.51	NA
		10/23/95	16.94	0.21	17.15	16.61	NA
		11/27/95	16.50	0.06	16.56	17.07	0.08
		12/28/95	15.60	0.01	15.61	17.98	0.02
		01/22/96	15.52	0.05	15.57	18.05	NA
		02/26/96	13.50	0.05	13.55	20.07	NA
		04/22/96	17.78	0.06	17.84	15.79	NA
		05/28/96	15.08	0.00	15.08	18.50	NA
		06/24/96	NA	0.00	15.54	18.04	NA
		07/22/96	NA	0.00	16.06	17.52	NA
		08/23/96	NA	0.00	16.85	16.73	NA
		09/23/96	NA	0.00	16.60	16.98	NA
		10/28/96	16.85	0.06	16.91	16.72	NA
		01/31/97	NP	0.00	14.84	18.74	0.00
		04/21/97	NP	0.00	15.74	17.84	0.00
		07/28/97	NP	0.00	16.05	17.53	0.00
						SPH Recovered to Date:	**0.10**
B-36	30.97	03/28/95	NA	0.00	14.65	16.32	NA
		04/24/95	NA	0.00	14.95	16.02	NA
		05/22/95	NA	0.00	15.03	15.94	NA
		06/26/95	NA	0.00	15.24	15.73	NA
		07/24/95	NA	0.00	15.47	15.50	NA
		08/28/95	NA	0.00	15.35	15.62	NA
		09/25/95	NA	0.00	15.82	15.15	NA
		10/23/95	NA	0.00	15.60	15.37	NA
		12/28/95	NA	0.00	13.91	17.06	NA
		01/22/96	0.00	13.93	13.93	28.88	NA
		02/26/96	0.00	10.75	10.75	29.36	NA
		04/22/96	NA	0.00	14.10	16.87	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-36	30.97	05/28/96	NA	0.00	13.01	17.96	NA
		06/24/96	NA	0.00	13.84	17.13	NA
		07/22/96	NA	0.00	15.01	15.96	NA
		08/23/96	NA	0.00	15.81	15.16	NA
		09/23/96	NA	0.00	15.65	15.32	NA
		10/28/96	NA	0.00	15.55	15.42	NA
		01/31/97	NP	0.00	13.44	17.53	0.00
		04/21/97	NP	0.00	19.98	10.99	0.00
		07/28/97	NP	0.00	15.01	15.96	0.00
						SPH Recovered to Date:	**0.00**
B-37	35.24	03/28/95	NA	0.00	18.51	16.73	NA
		04/24/95	NA	0.00	19.66	15.58	NA
		05/22/95	NA	0.00	19.62	15.62	NA
		06/26/95	NA	0.00	19.75	15.49	NA
		07/24/95	NA	0.00	20.08	15.16	NA
		08/28/95	NA	0.00	20.10	15.14	NA
		09/25/95	20.41	0.01	20.42	14.83	NA
		10/23/95	20.44	0.01	20.45	14.80	NA
		11/27/95	19.90	0.00	19.90	15.34	NA
		12/28/95	19.66	0.00	19.66	15.58	NA
		01/22/96	18.20	0.03	18.23	17.04	NA
		02/26/96	NA	0.00	14.15	21.09	NA
		04/22/96	NA	0.00	18.90	16.34	NA
		05/28/96	NA	0.00	17.94	17.30	NA
		06/24/96	NA	0.00	19.13	16.11	NA
		07/22/96	NA	0.00	20.13	15.11	NA
		08/23/96	NA	0.00	20.15	15.09	NA
		09/23/96	NA	0.00	20.76	14.48	NA
		10/28/96	NA	0.00	20.87	14.37	NA
		01/31/97	NP	0.00	19.29	15.95	2.00
		04/21/97	14.39	0.09	14.48	20.84	NA
		07/28/97	NP	0.00	20.30	14.94	0.00
						SPH Recovered to Date:	**2.00**
B-38	34.75	03/28/95	18.95	1.95	20.90	15.51	NA
		04/24/95	19.17	1.51	20.68	15.35	NA
		05/22/95	19.13	1.45	20.58	15.40	NA
		06/26/95	19.30	1.16	20.46	15.28	NA
		07/24/95	19.75	0.17	19.92	14.97	0.20
		08/28/95	19.82	0.71	20.53	14.82	NA
		09/25/95	19.99	1.03	21.02	14.61	NA
		10/23/95	20.00	1.03	21.03	14.60	NA
		11/27/95	19.50	0.32	19.82	15.20	0.81
		01/22/96	18.89	0.14	19.03	15.84	0.45
		02/26/96	13.70	0.37	14.07	20.99	1.31
		04/22/96	18.63	0.25	18.88	16.08	NA
		07/22/96	19.59	1.25	20.84	14.97	NA
		08/23/96	18.70	0.03	18.73	16.05	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco				
B-38	34.75	09/23/96	20.18	0.78	20.96	14.45	NA
		10/28/96	20.18	0.70	20.88	14.47	NA
		01/31/97	18.80	0.45	19.25	15.88	2.00
		04/21/97	19.39	0.64	20.03	15.26	0.60
		07/25/97	19.78	0.21	19.99	14.94	0.75
						SPH Recovered to Date:	**6.12**
B-39	33.92	03/28/95	18.14	0.04	18.18	15.77	NA
		04/24/95	18.31	0.03	18.34	15.61	NA
		05/22/95	18.28	0.03	18.31	15.64	NA
		06/26/95	18.43	0.09	18.52	15.48	NA
		07/24/95	18.73	0.13	18.86	15.17	NA
		08/28/95	18.95	0.11	19.06	14.95	NA
		09/25/95	19.08	0.14	19.22	14.82	NA
		10/23/95	19.09	0.20	19.29	14.80	NA
		11/27/95	19.55	0.07	19.62	14.36	0.11
		12/28/95	18.05	0.18	18.23	15.84	0.04
		01/22/96	17.03	0.07	17.10	16.88	0.01
		02/26/96	13.54	0.46	14.00	20.31	0.03
		04/22/96	18.65	0.08	18.73	15.26	0.90
		05/28/96	16.64	0.12	16.76	17.26	0.02
		06/24/96	17.67	0.72	18.39	16.14	0.03
		07/22/96	18.68	0.03	18.71	15.24	0.01
		08/23/96	19.18	0.87	20.05	14.61	0.40
		09/23/96	19.42	0.09	19.51	14.49	NA
		10/28/96	19.25	0.04	19.29	14.66	NA
		01/31/97	18.27	0.91	19.18	15.51	2.00
		04/21/97	18.43	0.10	18.53	15.48	0.40
		07/25/97	18.72	0.97	19.69	15.05	2.75
						SPH Recovered to Date:	**6.70**
B-40	33.19	03/28/95	17.55	0.09	17.64	15.63	NA
		04/24/95	17.84	0.12	17.96	15.33	NA
		05/22/95	17.75	0.11	17.86	15.42	NA
		06/26/95	17.95	0.11	18.06	15.22	NA
		08/28/95	18.40	0.01	18.41	14.79	NA
		09/25/95	NA	0.00	18.77	14.42	NA
		10/23/95	18.74	0.01	18.75	14.45	NA
		11/27/95	17.98	0.02	18.00	15.21	NA
		12/28/95	17.23	0.00	17.23	15.96	NA
		01/22/96	NA	0.00	16.40	16.79	NA
		02/26/96	NA	0.00	12.75	20.44	NA
		04/22/96	17.01	0.00	17.01	16.18	NA
		05/28/96	15.78	0.29	16.07	17.37	NA
		06/24/96	16.99	0.15	17.14	16.18	0.23
		07/22/96	18.32	0.12	18.44	14.85	0.01
		08/23/96	18.87	0.06	18.93	14.31	0.02
		09/23/96	19.06	0.06	19.12	14.12	NA
		10/28/96	NA	0.00	19.02	14.17	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
B-40	33.19	01/31/97	16.76	0.54	17.30	16.35	NA
		04/21/97	17.79	0.02	17.81	15.40	0.40
		07/25/97	18.86	0.04	18.90	14.32	1.50
						SPH Recovered to Date:	**2.16**
B-41	34.85	03/28/95	18.80	0.08	18.88	16.04	NA
		04/24/95	18.93	0.06	18.99	15.91	NA
		05/22/95	18.95	0.07	19.02	15.89	NA
		06/26/95	19.11	0.06	19.17	15.73	NA
		08/28/95	18.55	0.70	19.25	16.19	NA
		09/25/95	19.73	0.20	19.93	15.09	NA
		10/23/95	19.70	0.60	20.30	15.06	NA
		11/27/95	18.50	0.15	18.65	16.33	0.23
		01/22/96	17.38	0.04	17.42	17.46	0.18
		02/26/96	13.40	0.41	13.81	21.39	NA
		04/22/96	12.75	0.23	12.98	22.07	NA
		09/23/96	19.38	0.02	19.40	15.47	0.06
		10/28/96	19.87	0.08	19.95	14.97	NA
		01/31/97	NP	0.00	18.31	16.54	0.00
		04/21/97	18.51	0.03	18.54	16.34	0.20
		07/25/97	18.13	0.70	18.83	16.61	0.10
						SPH Recovered to Date:	**0.77**
IT-E	36.44	01/31/97	18.85	0.62	19.47	17.50	0.50
		04/21/97	19.69	0.63	20.32	16.66	0.30
		07/28/97	20.05	0.60	20.65	16.30	2.00
						SPH Recovered to Date:	**2.80**
IT-W	35.99	01/31/97	NP	0.00	16.65	19.34	0.00
		04/21/97	NP	0.00	17.44	18.55	0.00
		07/28/97	NP	0.00	17.81	18.18	0.00
						SPH Recovered to Date:	**0.00**
RES-N	38.58	03/28/95	23.14	0.76	23.90	15.33	NA
		04/24/95	23.17	1.74	24.91	15.15	NA
		05/22/95	23.17	0.75	23.92	15.30	NA
		06/26/95	23.26	0.75	24.01	15.21	NA
		08/28/95	23.64	0.68	24.32	14.84	NA
		09/25/95	23.75	0.50	24.25	14.76	NA
		10/23/95	23.80	0.60	24.40	14.69	NA
		11/27/95	23.26	0.60	23.86	15.23	1.59
		12/28/95	22.59	0.02	22.61	15.99	1.21
		01/22/96	20.91	0.03	20.94	17.67	5.00
		02/26/96	23.34	0.76	24.10	15.13	41.25
		04/22/96	22.14	0.02	22.16	16.44	NA
		05/28/96	21.11	0.00	21.11	17.47	NA
		06/24/96	22.41	0.00	22.41	16.17	NA
		07/22/96	22.88	0.00	22.88	15.70	NA
		07/24/96	23.45	0.76	24.21	15.02	NA
		08/23/96	NA	0.00	22.21	16.37	NA

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
RES-N	38.58	09/23/96	23.74	0.02	23.76	14.84	NA
		10/28/96	NA	0.00	24.32	14.26	NA
		01/31/97	22.45	0.09	22.54	16.12	2.00
		04/21/97	23.00	0.01	23.01	15.58	NA
		07/28/97	23.46	0.02	23.48	15.12	0.10
						SPH Recovered to Date:	**51.15**
RES-O	36.03	03/28/95	17.61	0.04	17.65	18.41	NA
		04/24/95	17.78	0.02	17.80	18.25	NA
		05/22/95	17.99	0.02	18.01	18.04	NA
		06/26/95	18.26	0.02	18.28	17.77	NA
		08/28/95	17.30	0.25	17.55	18.69	NA
		09/25/95	18.60	0.61	19.21	17.34	NA
		10/23/95	18.90	0.14	19.04	17.11	NA
		11/27/95	19.25	0.01	19.26	16.78	0.01
		12/28/95	17.53	0.01	17.54	18.50	NA
		01/22/96	17.42	0.07	17.49	18.60	NA
		02/26/96	12.50	0.11	12.61	23.51	NA
		04/22/96	10.95	0.10	11.05	25.07	NA
		05/28/96	16.82	0.00	16.82	19.21	NA
		06/24/96	17.18	0.01	17.19	18.85	NA
		07/22/96	17.53	0.01	17.54	18.50	NA
		08/23/96	18.10	0.01	18.11	17.93	NA
		09/23/96	18.22	0.08	18.30	17.80	NA
		10/28/96	18.10	0.05	18.15	17.92	NA
		01/31/97	NP	0.00	16.20	19.83	0.00
		04/21/97	NP	0.00	17.00	19.03	0.00
		07/28/97	NP	0.00	17.65	18.38	0.00
						SPH Recovered to Date:	**0.01**
U-2	35.02	03/28/95	NA	0.00	14.88	20.14	NA
		04/24/95	NA	0.00	15.10	19.92	NA
		05/22/95	NA	0.00	15.25	19.77	NA
		06/26/95	NA	0.00	15.52	19.50	NA
		07/24/95	NA	0.00	15.75	19.27	NA
		08/28/95	NA	0.00	15.65	19.37	NA
		09/25/95	NA	0.00	15.20	19.82	NA
		10/23/95	NA	0.00	16.57	18.45	NA
		12/28/95	NA	0.00	15.06	19.96	NA
		01/22/96	NA	0.00	16.44	18.58	NA
		02/26/96	NA	0.00	14.35	20.67	NA
		04/22/96	NA	0.00	15.01	20.01	NA
		05/28/96	NA	0.00	13.98	21.04	NA
		06/24/96	NA	0.00	14.36	20.66	NA
		07/22/96	NA	0.00	14.96	20.06	NA
		08/23/96	NA	0.00	15.10	19.92	NA
		09/23/96	NA	0.00	14.93	20.09	NA
		10/28/96	NA	0.00	14.85	20.17	NA
		01/31/97	NP	0.00	13.86	21.16	0.00

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Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
U-2	35.02	04/21/97	NP	0.00	14.52	20.50	0.00
		07/28/97	NP	0.00	15.27	19.75	0.00
						SPH Recovered to Date:	**0.00**
U-3	35.25	03/28/95	NA	0.00	12.72	22.53	NA
		04/24/95	NA	0.00	12.93	22.32	NA
		05/22/95	NA	0.00	13.55	21.70	NA
		06/26/95	13.89	0.01	13.90	21.36	NA
		07/24/95	NA	0.00	14.02	21.23	NA
		08/28/95	NA	0.00	19.65	15.60	NA
		09/25/95	NA	0.00	16.35	18.90	NA
		10/23/95	14.20	0.01	14.21	21.05	NA
		11/27/95	14.20	0.00	14.20	21.05	NA
		12/28/95	12.71	0.00	12.71	22.54	NA
		01/22/96	16.56	0.02	16.58	18.69	NA
		02/26/96	14.51	0.36	14.15	21.41	NA
		04/22/96	NA	0.00	15.15	20.10	NA
		05/28/96	NA	0.00	12.27	22.98	NA
		06/24/96	NA	0.00	12.69	22.56	NA
		07/22/96	NA	0.00	13.02	22.23	NA
		08/23/96	NA	0.00	13.15	22.10	NA
		09/23/96	NA	0.00	15.02	20.23	NA
		10/28/96	NA	0.00	17.90	17.35	NA
		01/31/97	NP	0.00	11.86	23.39	0.00
		04/21/97	NP	0.00	12.82	22.43	0.00
		07/28/97	NP	0.00	13.83	21.42	0.00
						SPH Recovered to Date:	**0.00**
U-4	34.46	03/28/95	17.42	3.98	21.40	16.44	NA
		04/24/95	15.60	6.17	21.77	17.93	NA
		05/22/95	15.75	6.18	21.93	17.78	NA
		06/26/95	15.96	6.16	22.12	17.58	NA
		07/24/95	16.33	4.17	20.50	17.50	NA
		08/28/95	17.23	3.72	20.95	16.67	5.20
		09/25/95	18.60	0.25	18.85	15.82	NA
		10/23/95	17.35	3.90	21.25	16.52	NA
		11/27/95	16.40	2.40	18.80	17.70	1.22
		01/22/96	17.60	0.04	17.64	16.85	2.79
		02/26/96	12.85	0.30	13.15	21.57	0.98
		04/22/96	11.50	0.23	11.73	22.93	0.31
		08/23/96	16.31	0.16	16.47	18.13	0.25
		09/23/96	16.61	0.09	16.70	17.84	NA
		10/28/96	17.56	0.19	17.75	16.87	NA
		01/31/97	14.80	2.25	17.05	19.32	6.50
		04/21/97	15.26	0.09	15.35	19.19	NA
		07/25/97	15.85	0.01	15.86	18.61	0.10
						SPH Recovered to Date:	**17.35**
U-5	33.37	03/28/95	NA	0.00	18.21	15.16	NA

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
			Tosco (continued)				
U-5	33.37	04/24/95	NA	0.00	18.47	14.90	NA
		05/22/95	NA	0.00	18.33	15.04	NA
		06/26/95	NA	0.00	8.42	24.95	NA
		07/24/95	18.90	0.01	18.91	14.47	NA
		08/28/95	19.13	0.12	19.25	14.22	NA
		09/25/95	19.27	0.25	19.52	14.06	NA
		10/23/95	19.32	0.17	19.49	14.02	NA
		11/27/95	18.50	0.10	18.60	14.85	0.03
	34.20	12/28/95	18.43	0.05	18.48	15.76	0.07
		01/22/96	15.57	0.08	15.65	18.62	0.02
		02/26/96	13.55	0.15	13.70	20.63	NA
		04/22/96	17.82	0.08	17.90	16.37	0.02
		05/28/96	16.52	0.01	16.53	17.68	NA
		06/24/96	18.10	0.01	18.11	16.10	NA
		07/22/96	19.39	0.03	19.42	14.81	NA
		09/23/96	20.04	0.04	20.08	14.15	NA
		10/28/96	18.15	0.07	18.22	16.04	NA
		01/31/97	NP	0.00	18.01	16.19	0.00
		04/21/97	NP	0.00	18.61	15.59	0.00
		07/28/97	NP	0.00	19.38	14.82	0.00
						SPH Recovered to Date:	**0.14**
U-5A	33.77	03/28/95	4.73	1.47	6.20	28.82	NA
		04/24/95	6.02	0.39	6.41	27.69	NA
		05/22/95	6.52	0.00	NM	0.00	NA
		06/26/95	6.97	0.00	NM	0.00	0.50
		07/24/95	9.86	0.37	10.23	23.85	NA
		08/28/95	9.50	0.45	9.95	24.20	0.01
		09/25/95	NA	0.00	15.61	18.16	NA
		10/23/95	15.30	0.20	15.50	18.44	NA
		11/27/95	6.34	0.08	6.42	27.42	0.36
		12/28/95	5.97	0.42	6.39	27.74	0.25
		01/22/96	6.43	0.07	6.50	27.33	0.07
		02/26/96	8.50	0.03	8.53	25.27	0.08
		04/22/96	9.35	0.05	9.40	24.41	0.05
		06/24/96	5.79	0.32	6.11	27.93	0.15
		07/22/96	6.47	0.07	6.54	27.29	0.05
		08/23/96	7.21	0.89	8.10	26.43	0.32
		09/23/96	8.58	1.31	9.89	24.99	NA
		10/28/96	20.04	0.03	20.07	13.73	NA
		01/31/97	4.59	0.27	4.86	29.14	10.00
		04/21/97	5.33	0.04	5.37	28.43	NA
		07/25/97	6.89	0.06	6.95	26.87	1.10
						SPH Recovered to Date:	**12.94**
						Tosco total SPH Recovered to Date:	**115.43**

Table 5 (continued)
Groundwater Elevation and SPH Recovery Data

Willbridge Terminal
Portland, Oregon

Well Identification	Top of Casing	Date Gauged	Depth to SPH (feet)	SPH Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation* (feet)	SPH Recovered** (gallons)
Tosco (continued)							
						Complete total SPH Recovered to Date:	338.35

Notes:

SPH = Separate-phase hydrocarbon
NP = No product
NA = Not available
NM = Not measured
SPH recovered to 10/28/96 has been accumulative process on a weekly to monthly basis and added together to get the sum.
* = Groundwater elevation (GWE) is corrected for the presence of SPH using:
GWE = toc - (DTW + (SPH thickness x Specific gravity of SPH)) Specific gravity used is 0.85
** = SPH recovered represents total recovered for presented interval.

Table 6
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron			
B-7	01/01/95	ND	ND	ND	ND
	04/01/95	ND	0.73	ND	ND
	07/01/95	ND	0.57	ND	ND
	10/01/95	ND	ND	ND	ND
	01/01/96	ND	ND	0.5	NS
	04/01/96	ND	ND	ND	ND
	07/22/96	5.4	0.64	ND	ND
	10/28/96	ND	ND	ND	ND
	01/29/97	ND	ND	ND	ND
	04/28/97	ND	ND	ND	ND
B-9	01/01/95	ND	0.9	ND	1.5
	04/01/95	ND	0.88	ND	1.3
	07/01/95	ND	1	ND	0.52
	10/01/95	ND	1	ND	2.5
	01/22/96	0.63	0.66	ND	1.8
	04/22/96	1	1.3	ND	2.7
	07/22/96	1.8	0.86	ND	0.93
	10/28/96	ND	ND	ND	ND
	01/29/97	ND	ND	ND	ND
	04/28/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	2.22
B-10	01/01/95	8.6	2.9	0.7	5.2
	04/01/95	11	5.7	14	17
	07/01/95	8.3	3.6	4.3	11
	10/01/95	22	4.3	1.8	13
	01/22/96	8.6	2.1	ND	5.4
	04/22/96	33	5.6	1.3	15
	07/22/96	30	4.5	6.6	15
	10/28/96	120	4.5	4	11
	01/29/97	172	6.16	1.27	10.5
	04/28/97	60.8	4.72	2.82	6.54
	07/31/97	52.0	ND	ND	ND

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Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron (continued)			
B-11	01/01/95	12	2.8	52	9.9
	04/01/95	140	8.2	2.6	6.3
	07/01/95	140	9.3	2.3	9.5
	10/01/95	320	7.8	ND	8.1
	01/22/96	260	4	140	24
Duplicate	01/22/96	ND	ND	ND	ND
	04/01/96	340	9.8	38	14
	07/22/96	250	7.3	2.4	13
	10/28/96	290	12	4.3	9.5
	01/29/97	243	ND	411	79.0
	04/28/97	243	5.90	24.3	11.0
	07/31/97	339	150	141	448
B-13	01/22/96	400	7.7	18	14
B-14	01/01/95	190	15	78	46
	04/01/95	140	7.6	170	83
	07/01/95	190	21	91	55
	10/01/95	240	20	45	22
	01/22/96	230	9.5	51	27
	04/22/96	260	14	93	52
Duplicate	04/22/96	270	14	90	50
	07/22/96	230	15	100	67
Duplicate	07/22/96	220	18	110	74
	10/28/96	140	8.2	29	12
Duplicate	10/28/96	120	8.3	24	11
	01/29/97	1,340	35.5	498	94.5
Duplicate	01/29/97	2,180	50.0	835	198
	04/28/97	1,310	57.5	440	ND
	07/31/97	407	37.2	118	67.0
Duplicate	07/31/97	332	32.0	83.5	51.0

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron (continued)			
B-28	01/01/95	10	0.7	17	2
	04/01/95	19	0.86	48	7.8
	07/01/95	1.7	0.82	32	5.6
	10/01/95	3	ND	0.93	ND
	01/22/96	4.6	ND	19	6.6
	04/01/96	ND	ND	ND	ND
	07/22/96	14	0.74	64	13
	10/28/96	2.3	ND	2.5	ND
	01/29/97	26.4	1.50	160	62.5
	07/31/97	2.19	ND	12.5	2.39
B-30	01/01/95	51	7.6	3.1	17
	04/01/95	28	3.1	1.6	9.9
	07/01/95	12	2	0.71	4.5
	10/01/95	43	4.6	0.94	11
	01/22/96	50	7.1	2.4	14
	04/22/96	25	7.4	3.2	15
	07/22/96	38	4.2	1.9	9
	10/28/96	19	4.1	0.95	9.1
	01/29/97	97.5	12.4	8.45	15.4
	04/28/97	124	14.9	7.86	18.1
Duplicate	04/28/97	133	15.5	8.42	19.0
	07/31/97	30.0	4.00	1.22	7.38
CR-3	01/22/96	ND	ND	ND	ND
CR-8	01/01/95	ND	ND	3.9	5.8
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	0.54
	01/22/96	1.2	ND	0.59	1.8
	04/22/96	1.7	0.98	1.1	2.2
	07/22/96	ND	ND	0.58	1.6
	10/28/96	ND	ND	ND	2.4
	01/29/97	ND	ND	8.94	19.1
	04/25/97	2.48	3.35	4.44	7.01
	07/31/97	ND	ND	ND	ND

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Chevron (continued)			
CR-9	07/31/97	ND	ND	ND	ND
CR-11	01/01/95	94	3.9	2.4	3.4
	04/01/95	110	3.6	5.4	17
	07/01/95	94	4.4	3	9.1
	10/01/95	130	8.5	4.2	8.8
	01/22/96	78	2.3	1.9	4.8
	04/22/96	91	5.2	4	3.8
	07/22/96	92	5.3	12	23
	10/28/96	NS/F	NS/F	NS/F	NS/F
	01/29/97	50.4	ND	13.3	47.9
	04/25/97	32.6	2.01	0.711	ND
	07/31/97	35.2	ND	ND	ND

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX			
MW-1	11/07/90	<5.0	<5.0	6.87	<5.0
MW-5	04/30/91	2.6	<0.5	<0.5	<0.5
MW-6	11/07/90	68	<5.0	<10	<20
MW-7	11/07/90	25	270	408	1,500
	01/01/95	ND	ND	18	30
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/01/96	NS	NS	NS	NS
	07/01/96	NS	NS	NS	NS
	10/28/96	NS	NS	NS	NS
MW-8	11/07/90	38.3	NS/F	-	5.2
	01/01/95	ND	ND	ND	ND
	04/01/95	0.96	ND	ND	ND
	07/01/95	ND	ND	ND	1.1
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	970	64	6.3	20
	07/22/96	1,100	440	39	140
	10/28/96	1,300	2,000	190	900
	01/30/97	134	3.48	37.8	107
	04/24/97	124	3.76	53.6	89.8
	07/30/97	155	6.24	93.8	135

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-10	04/30/91	2.6	<0.5	<0.5	<0.5
	01/01/95	1.7	0.7	ND	1
	04/01/95	ND	ND	ND	1.3
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	1.3
	01/22/96	2.3	0.68	ND	1.1
	04/22/96	6.5	0.88	ND	0.62
	07/22/96	ND	ND	ND	ND
	10/28/96	2.4	ND	ND	ND
	01/30/97	5.05	0.647	ND	1.03
	04/25/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
MW-11	11/07/90	12,000	15,000	1,600	10,000
	01/01/95	8,900	4,500	2,500	11,000
	04/01/95	7,400	4,900	2,500	12,000
	07/01/95	5,400	2,400	2,600	8,000
	10/01/95	7,100	2,800	2,400	8,700
	01/22/96	7,400	4,500	2,100	10,000
	04/22/96	7,000	3,800	2,500	11,000
	07/22/96	4,900	2,000	2,400	8,100
	10/28/96	5,100	2,200	2,200	8,100
	04/24/97	6,860	3,360	2,840	11,300
	07/30/97	6,390	2,630	2,970	10,800
MW-13	11/07/90	<5.0	NS/F	<5.0	<5.0
	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
MW-15	04/24/97	2.40	ND	ND	ND
	07/30/97	9.78	ND	ND	ND
MW-18	04/30/91	<0.5	3.6	2.2	4.4
MW-19	11/07/90	11.3	8.2	23.4	32.9
MW-20	10/28/96	ND	ND	ND	ND

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Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-21	01/30/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
Duplicate	07/30/97	ND	ND	ND	ND
MW-22	11/07/90	2,600	15,400	5,000	22,000
	01/01/95	2,400	8,100	4,700	16,000
	04/01/95	2,200	7,100	4,500	15,000
	07/01/95	2,000	5,800	4,500	15,000
	10/01/95	2,300	6,300	5,200	19,000
	01/22/96	1,800	5,300	4,100	15,000
	04/22/96	1,900	4,600	4,000	12,000
	07/22/96	2,200	4,300	4,700	15,000
	10/28/96	2,000	3,500	4,200	14,000
Duplicate	10/28/96	1,800	3,400	4,600	15,000
	01/30/97	2,130	3,650	4,680	14,400
	04/24/97	2,400	4,060	4,810	14,000
	07/30/97	1,940	1,950	4,320	13,400
MW-23	05/01/91	140	22	180	130
	01/01/95	72	20	210	180
	04/01/95	150	38	240	140
	07/01/95	99	20	240	140
	10/01/95	120	18	230	120
	01/22/96	32	ND	180	156
	04/22/96	35	16	140	140
Duplicate	04/22/96	ND	ND	ND	ND
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	31	7.3	140	110
	07/30/97	22.3	ND	48.7	57.0
MW-24	11/07/90	<20	NS/F	<10	13

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Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-26	05/01/91	<10	15	50	61
	01/01/95	1.7	ND	24	33
	04/01/95	8.7	7.3	13	19
	07/01/95	6.4	10	9.6	12
	10/01/95	ND	0.85	1.6	4.9
	01/19/96	ND	ND	ND	ND
	01/22/96	ND	4.2	16	20
Duplicate	01/22/96	ND	ND	ND	ND
	04/22/96	NS	ND	NS	NS
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
	01/30/97	1.73	2.00	9.18	8.66
	04/24/97	2.80	2.48	7.58	7.32
MW-27	05/01/91	83	0.6	<0.5	0.7
MW-28	05/01/91	9.5	26	74	200
	01/01/95	0.9	0.6	8.5	20
	04/01/95	ND	ND	20	15
	07/01/95	7.6	2.7	2.6	7.9
	10/01/95	2.8	2.6	7.2	20
	01/19/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	4.2
	07/22/96	2	0.95	0.73	1.8
	10/28/96	1.2	0.66	1.8	3.2
	01/30/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND

COPPOR00005836

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-31	05/01/91	1.2	<0.5	1.2	1.5
	01/01/95	1.3	1.6	1.2	3.8
	04/01/95	9.3	4.7	0.99	3.1
	07/01/95	2.8	1.3	0.64	1.4
	10/01/95	ND	ND	ND	ND
	01/19/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	2.5	1.1	0.54	1.9
	10/28/96	1.5	ND	ND	ND
	01/30/97	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND
MW-32	11/07/90	<5.0	<5.0	<5.0	<20
	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	0.56
	10/28/96	ND	ND	ND	ND
Duplicate	10/28/96	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND

COPPOR00005837

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-33	01/01/95	ND	ND	ND	0.5
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/01/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND
Duplicate	01/30/97	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND
Duplicate	04/24/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND
MW-36	07/01/95	NS	NS	NS	NS
	10/01/95	NS	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND
MW-37	01/01/95	ND	ND	2.2	7.1
	04/01/95	ND	ND	ND	ND
	07/01/95	140	ND	ND	ND
	10/01/95	14	ND	ND	ND
	01/22/96	140	1	ND	1.8
	04/22/96	92	ND	ND	ND
	07/22/96	450	6.4	ND	4.8
	10/28/96	27	ND	ND	ND
	01/30/97	697	56.7	12.6	49.6
	04/24/97	1,680	16.2	28.4	68.6
	07/31/97	1,350	ND	29.2	42.6
MW-39	10/28/96	0.96	ND	1.8	2.4

COPPOR00005838

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		GATX (continued)			
MW-40	04/24/97	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND
W-4	01/01/88	ND (5.0)	7	ND (0.7)	ND (5.0)
	01/01/89	ND (5)	ND (5)	ND (5)	ND (2)
W-17	01/01/88	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
W-27	01/01/88	ND (5.0)	ND (5.0)	ND (3.0)	ND (5.0)
	01/01/89	23	7	ND (2)	18
W-34	01/01/88	29	11	18	ND (3.0)
	01/01/89	ND (5)	ND (5)	ND (5)	5
W-35	01/01/88	ND (5.0)	ND (2.0)	8	ND (2.0)

COPPOR00005839

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco			
B-2	10/28/96	18	2.9	ND	3.5
B-3	10/28/96	ND	ND	ND	ND
B-4	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS	NS	NS	NS
	10/28/96	NS	NS	NS	NS
	04/25/97	228	8.02	7.36	ND
B-6	01/22/96	240	17	300	120
	07/22/96	270	25	380	120
	10/28/96	180	31	360	130
B-16	01/22/96	590	9.4	11	11
	07/22/96	210	8.7	7.9	9.9
	10/28/96	850	22	16	16
B-17	01/01/95	200	17	4.5	26
	04/01/95	590	17	7.7	16
	07/01/95	670	22	11	20
	10/01/95	830	36	16	43
	01/22/96	550	9.8	11	12
	04/22/96	580	19	12	32
	07/22/96	520	22	12	20
	10/28/96	330	15	10	ND
	01/31/97	280	12.1	9.69	10.1
	04/25/97	698	21.7	17.7	ND
	08/01/97	768	ND	ND	ND

COPPOR00005840

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
B-18	01/01/95	ND	ND	ND	0.6
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
B-22	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	15	1.6	2.3	5.3
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	14	0.93	0.52	0.56
	10/28/96	NS	NS	NS	NS
	04/25/97	20.1	1.62	0.806	ND
B-25	01/22/96	2.4	ND	3.6	1
	10/28/96	ND	ND	ND	ND
B-27	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
B-35	01/01/95	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	11	7.2	1.2	8.3
	10/28/96	NS	NS	NS	NS
	01/31/97	3.35	3.81	ND	2.17
Duplicate	01/31/97	3.87	4.72	ND	2.73
	04/25/97	6.50	8.58	0.790	6.98
	08/01/97	8.25	5.19	ND	ND
B-36	01/01/95	NS	NS	NS	NS
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND
	01/22/96	480	8.9	8.2	9.6
	04/22/96	ND	ND	ND	ND
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
B-37	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	31	0.54	0.72	1.3
	07/22/96	4.5	ND	ND	0.52
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND

COPPOR00005842

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
B-40	01/22/96	2.9	1.9	16	7.5
	10/28/96	0.93	1.2	1.3	1.2
RES-N	01/01/95	4	0.6	3.4	4.5
	04/01/95	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F
	07/22/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F
U-2	01/01/95	3.8	ND	4.9	2.9
	04/01/95	0.66	ND	1.2	1.2
	07/01/95	2.6	ND	0.62	4
	10/01/95	6.8	ND	ND	ND
	01/22/96	1.3	ND	2.9	1.2
	04/22/96	ND	ND	ND	ND
	07/22/96	7.5	1.9	10	4.2
	10/28/96	ND	ND	ND	ND
	01/31/97	8.91	ND	42.5	ND
	04/25/97	18.4	1.27	25.4	4.64
Duplicate	04/25/97	20.8	1.36	29.4	3.70
	08/01/97	6.66	ND	3.18	ND
U-3	01/01/95	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F
	04/22/96	220	7.9	49	26
	07/22/96	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND
	04/25/97	4.77	0.523	ND	ND
	08/01/97	14.9	14.8	ND	5.42
Duplicate	08/01/97	14.8	15.0	ND	5.80

Table 6 (continued)
Groundwater Analytical Results - BTEX

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
		Tosco (continued)			
U-4	01/01/95	ND	ND	ND	0.6
	04/01/95	ND	ND	ND	ND
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
U-5	01/01/95	15	2	0.5	3
	04/01/95	1.9	1.4	ND	1.7
	07/01/95	2.7	1.2	ND	1.8
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS
	01/31/97	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND
U-5A	01/01/95	20	6.5	3.7	7.2
	04/01/95	28	7.8	5	20
	07/01/95	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F
	01/01/96	NS/F	NS/F	NS/F	NS/F
	04/01/96	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS

Notes:

ppb = Parts per billion
ND = Not detected
NS = Not sampled
NS/F = Not sampled floating product present
NA = Not analyzed, not applicable
BTEX by EPA Method 8020

COPPOR00005844

Table 7

Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron																	
B-7	01/01/95	3.4	ND	4.1	0.5	0.7	ND	ND	ND	1.2	ND	59	23	ND	ND	28	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	ND	ND	ND	ND
	10/01/95	4.6	1.1	1.8	0.1	0.12	0.12	0.11	0.1	0.2	ND	0.8	26	ND	ND	23	0.83
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	1.80	ND	0.364	ND	ND	ND	ND	ND	ND	ND	ND	6.38	ND	ND	2.11	ND
	04/28/97	6.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.7	ND	ND	30.2	ND
B-9	01/01/95	ND	ND	0.65	ND	ND	ND	ND	ND	ND	ND	3.3	4.3	ND	ND	0.48	ND
	04/01/95	ND	ND	ND	ND	ND	0.16	0.26	ND	0.37	ND	ND	8.1	0.24	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	ND
	10/01/95	2.9	0.6	0.49	ND	0.13	0.16	0.16	0.12	0.18	ND	0.4	10	0.14	ND	0.94	0.32
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	0.17	0.28	0.43	0.38	0.18	0.34	0.19	0.64	ND	0.33	ND	ND	0.58
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	0.196	0.424	0.553	0.505	0.312	0.569	ND	0.667	ND	0.529	ND	ND	0.813
	01/29/97	1.38	ND	0.325	0.208	0.295	0.380	0.413	0.364	0.425	ND	0.629	4.72	0.349	ND	1.13	0.587
	04/28/97	6.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.4	ND	ND	18.6	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.7	ND	ND	ND	ND

COPPOR0005845

Table 7 (continued)

Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron (continued)																	
B-10	09/09/93	4	<20	<2	<0.3	0.5	0.5	0.7	<0.3	<0.3	<0.1	<4	9.4	0.5	<1	23	<5
	03/29/94	<2.5	<5.0	0.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	21	6.9	<0.5	<2.5	6.7	<0.5
	01/01/95	1.2	ND	2	0.1	0.2	ND	ND	0.1	0.3	ND	15	7.6	0.2	13	9.4	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	0.11	0.26	ND	ND	ND	ND	ND	5.1	ND	ND	ND	ND
	10/01/95	ND	0.28	0.58	ND	ND	ND	ND	ND	ND	ND	0.52	3.3	ND	ND	4.2	0.39
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	1.35	ND	0.647	0.258	0.334	0.481	0.283	0.409	0.490	ND	0.951	3.71	0.275	ND	4.45	0.924
	04/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.0	ND	ND	20.6	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.2	ND	ND	ND	ND
B-11	01/01/95	ND	ND	0.3	0.2	0.9	0.5	0.3	0.3	0.3	ND	2.1	1.4	0.5	0.9	1.4	0.6
	04/01/95	ND	ND	ND	ND	ND	0.14	0.11	ND	ND	ND	ND	1.8	ND	ND	1.3	ND
	07/01/95	ND	ND	ND	ND	0.15	0.28	0.22	0.11	0.24	ND	ND	ND	0.25	ND	ND	ND
	10/01/95	0.9	0.16	0.14	0.12	0.2	0.32	0.34	0.23	0.25	ND	0.32	1.4	0.27	ND	1.3	0.33
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.2	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	0.1	ND	ND	ND	2.4	ND	ND	ND	ND	4.1
	07/01/96	ND	ND	ND	0.22	0.16	0.17	0.24	ND	0.22	ND	2.4	ND	0.2	ND	ND	3
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	0.758	ND	0.175	0.161	0.240	0.321	0.317	0.267	0.297	ND	0.398	1.24	0.245	29.1	1.26	0.457
	04/28/97	0.686	ND	0.105	ND	ND	ND	ND	ND	ND	ND	ND	1.12	ND	1.64	0.852	0.134
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.93	ND	ND	ND	0.196
B-13	01/22/96	ND	ND	ND	0.4	0.49	0.67	0.76	0.34	0.97	ND	1.7	ND	0.66	21	ND	ND

COPPOR0005846

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron (continued)																	
B-14	09/09/93	<2	<40	0.3	0.1	<0.1	<0.2	<0.2	<0.1	0.4	<0.1	<1	2.3	<0.1	15	3	<1
Duplicate	09/09/93	<2	<40	0.3	<0.1	<0.1	<0.2	<0.2	<0.1	0.3	<0.1	<1	1.8	<0.1	8	2.6	0.8
	03/29/94	1.1	4.2	0.4	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	0.9	1.5	<0.1	10	1.6	0.7
	01/01/95	0.6	ND	0.27	0.3	ND	ND	ND	ND	0.7	ND	2.2	2	ND	12	2.7	0.5
	04/01/95	12	ND	ND	0.24	0.15	0.12	ND	ND	0.2	ND	ND	2.3	ND	12	2.2	ND
	07/01/95	ND	ND	ND	0.16	ND	ND	ND	ND	0.13	ND	0.74	ND	ND	9.8	ND	ND
	10/01/95	1	0.17	0.3	0.12	ND	ND	ND	ND	0.12	ND	0.85	1.4	ND	6.7	1.2	0.99
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	01/22/96	ND	ND	ND	0.11	ND	ND	ND	ND	0.36	ND	ND	ND	ND	7.6	ND	ND
	04/22/96	ND	ND	ND	0.21	ND	ND	ND	ND	0.64	ND	2.4	ND	ND	7.6	ND	3.3
Duplicate	04/22/96	ND	ND	ND	0.12	ND	ND	0.13	ND	0.45	ND	1.9	ND	ND	6.3	ND	2.5
	07/01/96	ND	ND	ND	0.13	0.12	ND	0.25	ND	0.15	ND	2.2	ND	ND	12	ND	1.9
Duplicate	07/01/96	ND	ND	ND	ND	0.13	ND	ND	ND	0.12	ND	2	ND	0.12	ND	ND	1.6
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.413	ND	ND	ND	ND	ND
Duplicate	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.472	ND	ND	7.35	ND	ND
	01/29/97	1.19	ND	0.254	0.225	0.229	0.272	0.262	0.242	0.314	ND	0.580	2.54	0.198	68.7	2.39	0.737
Duplicate	01/29/97	0.788	ND	0.377	0.238	0.205	0.205	0.128	0.187	0.307	ND	0.868	2.34	0.121	65.8	3.29	0.941
	04/28/97	0.865	ND	0.198	ND	ND	ND	ND	ND	ND	ND	0.542	1.47	ND	23.7	1.42	0.660
	07/31/97	ND	ND	ND	0.133	ND	ND	ND	ND	0.127	ND	0.660	2.00	ND	5.96	ND	0.802
Duplicate	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.622	1.82	ND	ND	ND	0.666

COPPOR0000584

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron (continued)																	
B-28	09/09/93	<1	<1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<1	<0.1	<0.2
	01/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND
	07/01/95	ND	ND	ND	ND	ND	0.11	0.11	ND	ND	ND	ND	ND	ND	12	ND	ND
	10/01/95	ND	ND	0.17	ND	0.1	0.12	0.12	0.1	0.12	ND	0.17	ND	ND	0.36	ND	0.14
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.9	ND	ND
	01/29/97	ND	ND	ND	ND	0.104	0.110	0.107	ND	0.109	ND	0.127	0.166	ND	30.4	0.281	0.163
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-29	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-30	09/09/93	<1	<1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.1	<0.4	<0.2	<0.1	<1	0.2	0.3
	03/29/94	<0.5	<1.0	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.5	0.11	<0.1
	01/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/29/97	0.172	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.219	ND	0.199	0.440	ND
	04/28/97	0.199	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.190	ND	0.345	0.210	0.143
Duplicate	04/28/97	0.246	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.124	0.262	ND	0.399	0.258	0.146
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.183	ND	ND	ND	ND	0.278
CR-3	03/29/94	<0.5	<1.0	<0.05	<0.1	0.1	0.1	0.1	<0.1	<0.1	0.1	0.2	<0.1	0.2	<0.5	0.1	0.2
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR0005848

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Chevron (continued)																	
CR-4	03/29/94	<0.5	<1.0	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	0.1	0.49	<0.1	<0.5	0.08	<0.1
CR-8	03/29/94	0.6	<1.0	0.4	0.4	0.7	0.4	0.8	0.2	0.3	<0.2	1.3	1	0.6	<0.5	1.2	0.9
	01/01/95	ND	ND	0.41	1.9	9.2	3.4	2.6	1.9	2.2	0.4	3	9	5.3	ND	1.4	3.8
	04/01/95	ND	ND	ND	0.18	0.32	0.19	0.38	ND	0.21	ND	0.73	ND	0.24	ND	ND	1.1
	07/01/95	ND	ND	ND	4.4	6.8	6.9	11	3.2	5.7	ND	8.6	ND	9.2	ND	ND	12
	10/01/95	0.28	0.43	0.42	2.5	6.4	4	6.4	2.9	3.3	0.77	5.2	0.42	4.2	ND	0.9	6.3
	01/22/96	ND	ND	ND	0.54	1.9	1.4	2.3	0.56	0.82	ND	1.2	ND	2.1	ND	ND	1.6
	04/22/96	ND	ND	ND	1.1	3	2.1	3.8	1	1.4	2.7	1.7	ND	2.9	ND	ND	2.5
	07/01/96	ND	ND	ND	0.61	1.2	1	1.8	0.38	0.77	ND	0.98	ND	1.2	ND	ND	1.4
	10/28/96	ND	ND	ND	0.398	1.37	0.905	1.73	0.515	0.655	ND	0.938	ND	1.3	ND	ND	1.33
	01/29/97	ND	ND	ND	0.359	0.791	0.602	1.24	0.545	0.514	ND	0.526	ND	0.760	ND	ND	0.950
	04/25/97	ND	ND	0.101	0.502	1.31	0.790	1.36	0.708	0.687	ND	0.809	ND	0.943	ND	0.129	1.24
	07/31/97	ND	ND	ND	0.268	0.640	0.472	0.794	0.216	0.348	ND	0.500	ND	0.510	ND	ND	0.798
CR-9	09/09/93	<1	<1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<1	<0.1	<0.2
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CR-11	03/29/94	1.8	<1.0	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	3.2	6.5	<0.1	<0.5	4	<0.1
	01/01/95	ND	0.6	0.7	ND	ND	ND	ND	ND	ND	ND	0.6	2	ND	ND	1.3	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	0.68	0.17	0.14	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	1.6	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/29/97	0.941	ND	0.185	ND	ND	ND	ND	ND	ND	ND	ND	2.06	ND	ND	1.37	0.109
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.183	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.30	ND	ND	ND	ND

COPPOR00005849

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
							GATX										
MW-1	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	04/30/91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/01/91	2.8	<2.0	0.44	NS	<0.10	<0.10	<0.10	<0.10	2	<0.20	15	9.8	<0.10	<0.50	7.6	<0.1
	01/01/95	ND	ND	5.1	ND	1.9	ND	ND	ND	ND	ND	37	16	ND	ND	19	8.1
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	56	ND	ND	83	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26	ND	ND	76	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
MW-8	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/01/91	<1.0	<1.0	0.056	NS	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.50	0.062	<0.1
	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.11	ND	ND
	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.52	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-9	04/30/91	<1.0	<10.0	<0.05	NS	<0.10	<0.10	<0.12	<0.10	<0.10	<0.20	0.26	<0.10	<0.10	<0.50	0.057	0.29
MW-10	04/30/91	<1.0	<1.0	0.077	NS	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	0.18	<0.10	<0.10	<0.50	<0.05	<0.1
	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR0005850

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-11	11/07/90	<5.0	<5.0	<10.0	<15.0	<40.0	<15.0	<15.0	<15.0	<15.0	<40.0	<10.0	<5.0	<0.30	337	<10.0	<10.0
	01/01/95	2.8	29	0.14	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	190	ND	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	500	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	420	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	450	ND	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	470	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	540	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	280	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230	ND	ND
	04/24/97	0.125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.171	ND	475	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	294	ND	ND
MW-13	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-18	04/30/91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR0005851

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-22	11/07/90	<5.0	<5.0	<10.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	310	<0.05	<0.1
	01/01/95	ND	ND	0.7	ND	ND	ND	ND	ND	ND	ND	0.2	0.3	ND	ND	0.34	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	290	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	440	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	430	ND	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	480	ND	ND
Duplicate	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	440	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	370	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	240	ND	ND
Duplicate	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	260	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	360	ND	ND
	01/30/97	0.298	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.456	ND	352	0.258	ND
	04/24/97	0.182	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.366	ND	311	0.267	ND
	07/30/97	14.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.67	ND	220	ND	ND
MW-23	05/01/91	12	<1.0	<0.05	NS	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	71	38	<0.10	16	30	2.8
	01/01/95	ND	48	2.6	ND	0.6	0.5	ND	ND	0.9	ND	11	11	ND	8.5	11	2.7
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.6	ND	50	ND	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	ND	ND
Duplicate	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/30/97	10.4	ND	ND	0.106	ND	ND	ND	ND	0.203	ND	ND	0.908	ND	ND	ND	ND

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-24	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/01/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/01/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	58	ND	72	ND	ND
	10/01/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26	05/01/91	10	<1.0	1.9	NS	<0.10	<0.10	<0.10	<0.10	3.9	<0.20	44	22	<0.10	26	33	11
	01/01/95	3.4	ND	2.6	ND	ND	ND	ND	ND	ND	ND	1.1	1.3	ND	6.4	2.3	0.3
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	10	2.3	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.3	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22	ND	ND
Duplicate	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/30/97	1.77	ND	0.175	ND	ND	ND	ND	ND	ND	ND	0.299	1.68	ND	8.77	1.36	0.183
	04/24/97	1.57	ND	0.153	ND	ND	ND	ND	ND	ND	ND	0.322	1.46	ND	3.96	0.876	0.149
MW-27	11/07/90	<1.0	<1.0	0.17	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	0.95	3.7	<0.10	<0.50	<0.05	0.28
	05/01/91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-28	11/07/90	18	<1.0	10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	1,000	300	<0.10	8.2	60	59
	05/01/91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/01/95	2.9	6.1	0.94	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	1.2	8.6
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	0.756	ND	0.502	0.220	ND	ND	ND	ND	0.517	ND	0.344	2.10	ND	ND	1.74	0.850
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61	ND	ND	ND	ND
MW-29	11/07/90	<1.0	<1.0	0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	2.1	0.42	<0.10	<0.50	0.56	<0.1
MW-31	11/07/90	<1.0	<1.0	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	0.84	<0.10	<0.10	<0.50	1.6	<0.10
	05/01/91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/01/95	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	56	32	ND	ND	46	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.7	ND
	01/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	0.651	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.65	ND	ND	0.356	ND
	04/24/97	0.539	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	ND	ND	0.532	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.509	ND	ND	ND	ND

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-32	11/07/90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-33	11/07/90	<1.0	<1.0	0.059	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.50	<0.05	0.2
	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-36	11/07/90	<1.0	<1.0	0.055	<0.10	<0.10	<0.10	0.13	<0.10	<0.10	<0.20	0.21	<0.10	<0.10	<0.50	0.088	0.24
	01/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.105	ND
	04/25/97	0.199	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
GATX (continued)																	
MW-37	11/07/90	<1.0	<1.0	0.051	<0.10	0.13	<0.10	0.14	<0.10	<0.10	<0.20	0.29	<0.10	<0.10	<0.50	0.3	0.3
	01/01/95	2.2	ND	0.32	0.2	0.2	ND	ND	ND	ND	ND	3.7	4.9	ND	ND	3.2	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	0.36	0.14	ND	ND	ND	20	0.2	ND	7.8	ND
	10/01/95	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	0.1	ND	8	ND
	01/22/96	ND	ND	ND	1.2	2.8	2.3	1.3	1	3.6	ND	ND	ND	1.6	ND	ND	ND
	04/22/96	ND	ND	ND	0.77	0.91	0.85	1	0.44	2.6	ND	ND	ND	0.77	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/30/97	0.751	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.102	1.21	ND	ND	0.156	0.166
	04/24/97	ND	ND	0.386	0.552	0.574	0.364	0.361	0.416	0.567	ND	1.31	ND	0.330	ND	2.41	1.65
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.12	ND	ND	ND	ND
MW-40	04/24/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-4	01/01/88	ND (10)	NS	ND (10)	NS	NS	NS	NS	NS	ND (10)	NS	NS	ND (10)	NS	NS	ND (10)	ND (10)
	01/01/89	NS	NS	NS	ND (10)	NS	NS	NS	NS	NS	NS	NS	ND (10)	NS	NS	ND (10)	ND (10)
W-17	01/01/88	ND (10)	NS	ND (10)	NS	NS	NS	NS	NS	ND (10)	NS	NS	ND (10)	NS	NS	ND (10)	ND (10)
W-27	01/01/88	ND (3.0)	NS	ND (1.0)	NS	NS	NS	NS	NS	ND (9.0)	NS	NS	ND (4.0)	NS	NS	ND (5.0)	ND (9.0)
	01/01/89	NS	NS	NS	ND (100)	NS	NS	NS	NS	NS	NS	NS	ND (21)	NS	NS	ND (26)	ND (100)
W-34	01/01/88	ND (5.0)	NS	ND (9.0)	NS	NS	NS	NS	NS	ND (3.0)	NS	NS	32	NS	NS	37	ND (4.0)
	01/01/89	NS	NS	NS	ND (6)	NS	NS	NS	NS	NS	NS	NS	ND (13)	NS	NS	ND (5)	ND (11)
W-35	01/01/88	ND (9.0)	NS	ND (9.0)	NS	NS	NS	NS	NS	ND (9.0)	NS	NS	ND (9.0)	NS	NS	ND (9.0)	ND (9.0)

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco																	
B-2	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.7	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-3	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	120	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.8	ND	ND
B-4	01/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/25/97	24.2	ND	20.1	ND	ND	ND	ND	ND	ND	ND	13.3	63.1	ND	ND	141	18.9
B-6	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.9	ND	ND
B-16	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9	ND	ND	6.2	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.21	ND	ND	ND	ND	ND

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Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
B-17	01/01/95	ND	ND	5.2	1.1	ND	ND	ND	ND	ND	ND	34	23	ND	56	25	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	13	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	ND	34	15	ND
	01/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	22	16	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	0.298	ND	ND	ND	ND	6.57	ND	ND
	01/31/97	10.8	ND	4.46	ND	0.140	0.142	ND	ND	ND	ND	3.04	38.0	ND	ND	66.6	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.0	ND	ND	20.9	ND
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.6	ND	ND	ND	ND
B-18	01/01/95	ND	ND	0.88	ND	ND	ND	ND	ND	ND	ND	7	2.3	ND	ND	3.6	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.68
	01/31/97	0.559	ND	0.290	ND	ND	ND	ND	ND	ND	ND	0.189	1.36	ND	ND	1.86	0.215
	04/25/97	0.308	ND	0.104	ND	ND	ND	ND	ND	ND	ND	ND	0.496	ND	ND	0.390	0.123
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	ND	ND	ND	0.119

COPPOR0005858

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
B-22	01/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.67	ND	ND	7.76	ND
B-25	09/09/93	<1	<1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<1	0.1	<0.2
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-27	01/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F

COPPOR00005859

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
B-35	09/09/93	16	<80	15	9.2	2.9	4.1	<3	1.6	11	<0.3	45	60	1.1	<40	190	<40
	01/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	ND	ND	ND	18	1.9	2.1	2.2	3.8	14	ND	ND	44	ND	25	120	ND
	10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/31/97	13.6	ND	9.47	4.38	0.978	1.47	0.106	1.17	4.27	ND	27.4	42.7	0.144	ND	77.3	12.8
Duplicate	01/31/97	19.1	ND	14.4	5.94	1.63	2.68	0.183	2.22	5.60	ND	41.7	56.6	0.237	ND	110	16.9
	04/25/97	5.33	ND	ND	0.571	0.118	0.150	ND	0.134	0.521	ND	ND	14.4	ND	ND	18.0	ND
	08/01/97	ND	ND	ND	1.58	ND	ND	ND	ND	ND	ND	9.62	20.6	ND	ND	ND	5.04
B-36	01/01/95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	7.5	ND	ND	ND	ND	5.5	ND	64	ND	ND	ND	ND	76
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.221	ND	ND	0.108	ND
	04/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR0000586O

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
B-37	01/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	0.2
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	0.224	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	0.206	ND	ND	ND	ND	ND	0.105	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/97	0.189	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-40	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43.1	32.8
U-2	01/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	ND	ND	3.6	ND	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23	9.8	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	ND	ND	ND	0.12	0.21	0.31	ND	0.15	0.27	ND	0.45	ND	ND	ND	ND	ND
	01/22/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.3	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	0.516	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.278	0.541	ND	39.8	0.111	0.250
	04/25/97	0.364	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.179	0.873	ND	37.5	0.339	0.235
Duplicate	04/25/97	0.241	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.142	0.562	ND	ND	ND	0.153
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

COPPOR0000586I

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
U-3	09/09/93	<1	<2	<0.1	0.9	1.4	1.4	1.3	0.6	1.3	<0.3	1.5	<0.2	1.2	<1	0.8	1.4
	01/01/95	ND	ND	0.9	0.4	ND	0.7	ND	0.3	ND	0.6	ND	0.9	0.9	0.6	0.65	0.8
	04/01/95	ND	ND	ND	1.1	1.6	1.4	1.4	0.71	1.1	0.4	1.8	1.8	2.3	2.2	0.99	1.7
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/96	ND	ND	ND	0.66	0.74	0.98	0.95	0.52	0.87	ND	ND	ND	0.7	ND	ND	ND
	10/28/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/31/97	0.220	ND	0.155	0.942	1.24	1.41	1.21	1.23	1.20	0.415	1.84	0.263	1.10	ND	0.881	0.923
	04/25/97	ND	ND	ND	ND	0.109	0.104	ND	ND	0.106	ND	0.134	ND	ND	ND	ND	0.144
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Duplicate	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
U-4	01/01/95	7	ND	ND	ND	ND	ND	ND	ND	2.3	ND	72	24	ND	ND	44	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F

COPPOR0005862

Table 7 (continued)
Groundwater Analytical Results - Polyaromatic Hydrocarbons

Willbridge Terminal
Portland, Oregon

Well Identification	Date Sampled	Acenaphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
Tosco (continued)																	
U-5	01/01/95	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	0.4	1	ND	2.5	0.13	ND
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND
	07/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/31/97	3.12	ND	1.43	0.122	ND	ND	ND	ND	0.287	ND	0.543	7.73	ND	ND	8.49	0.672
	04/25/97	1.06	ND	0.326	ND	ND	ND	ND	ND	ND	ND	ND	2.57	ND	ND	1.98	0.213
	08/01/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.112	4.29	ND	ND	ND	0.149
U-5A	01/01/95	1.8	ND	0.63	ND	ND	ND	ND	ND	ND	ND	2.7	8	ND	1.1	2.6	0.5
	04/01/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	ND	ND	ND	ND
	07/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/01/95	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	01/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	04/22/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	07/01/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F
	10/28/96	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F	NS/F

Notes:

ppb = Parts per billion
ND = Not Detected
NS = Not sampled
NS/F = Not sampled floating product present
PAH by EPA Method 8310

COPPOR0005863

ATTACHMENT A

SAMPLING PROTOCOL

CERTIFIED ANALYTICAL REPORTS

CHAIN-OF-CUSTODY DOCUMENTATION

ATTACHMENT A

Sampling Protocol

The groundwater sampling procedure employed by PACIFIC consists of first measuring depth to water in the well and separate-phase hydrocarbon level and thickness (if present) using a Keck KIR-89 oil/water interface probe. Each well was then purged of a minimum of three casing volumes of water (or until dry) by double diaphragm pump using rigid polyvinyl chloride (PVC) pipe "stinger" system. The stinger system was decontaminated prior to and between uses with an Alconox™-water wash and a water rinse. Groundwater samples were collected using single-use, disposable polyethylene (PE) bailers after the wells recovered to at least 60 percent of the pre-purge static water level. The samples were placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported at 4°C to the selected analytical laboratory. Dissolved metal samples were filtered in the field using a 0.45-micron filter capsule, disposable Tygon® tubing and a peristaltic pump. Purge water was disposed of using facility treatment systems.

COPPOR00005865

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-8	P708009-01	Water	7/30/97
MW-10	P708009-02	Water	7/30/97
MW-11	P708009-03	Water	7/30/97
MW-13	P708009-04	Water	7/30/97
MW-15	P708009-05	Water	7/30/97
MW-21	P708009-06	Water	7/30/97
MW-21 (DUP)	P708009-07	Water	7/30/97
MW-22	P708009-08	Water	7/30/97
MW-23	P708009-09	Water	7/30/97
MW-26	P708009-10	Water	7/30/97
MW-28	P708009-11	Water	7/30/97
MW-31	P708009-12	Water	7/30/97
MW-32	P708009-13	Water	7/30/97
MW-33	P708009-14	Water	7/31/97
MW-36	P708009-15	Water	7/31/97
MW-37	P708009-16	Water	7/31/97
MW-40	P708009-17	Water	7/31/97

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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.

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-8			P708009-01				Water	
Benzene	0870070	8/5/97	8/5/97		1.00	155	ug/l	
Toluene	"	"	"		1.00	6.24	"	
Ethylbenzene	"	"	"		1.00	93.8	"	
Xylenes (total)	"	"	"		2.00	135	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*118*	%	
MW-10			P708009-02				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*100*	%	
MW-11			P708009-03				Water	
Benzene	0870070	8/5/97	8/5/97		50.0	6390	ug/l	
Toluene	"	"	"		50.0	2630	"	
Ethylbenzene	"	"	"		50.0	2970	"	
Xylenes (total)	"	"	"		100	10800	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*111*	%	
MW-13			P708009-04				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*97.6*	%	
MW-15			P708009-05				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	9.78	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*98.4*	%	
MW-21			P708009-06				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	

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*Refer to end of report for text of notes and definitions.

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SPOKANE • (509) 924-9200 • FAX 924-9290
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Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-21 (continued)			P708009-06				Water	
Xylenes (total)	0870042	8/4/97	8/4/97		1.00	ND	ug/l	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*98.2*	%	
MW-21 (DUP)			P708009-07				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*99.8*	%	
MW-22			P708009-08				Water	
Benzene	0870042	8/4/97	8/4/97		50.0	1940	ug/l	
Toluene	"	"	"		50.0	1950	"	
Ethylbenzene	"	"	"		50.0	4320	"	
Xylenes (total)	"	"	"		100	13400	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*99.0*	%	
MW-23			P708009-09				Water	
Benzene	0870042	8/4/97	8/4/97		2.50	22.3	ug/l	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	48.7	"	
Xylenes (total)	"	"	"		5.00	57.0	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*101*	%	
MW-28			P708009-11				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*92.6*	%	
MW-31			P708009-12				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*91.0*	%	

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SPOKANE • (509) 924-9200 • FAX 924-9290
PORTLAND • (503) 643-9200 • FAX 644-2202

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Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-32			P708009-13				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*94.0*	%	
MW-33			P708009-14				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*97.6*	%	
MW-36			P708009-15				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*91.8*	%	
MW-37			P708009-16				Water	
Benzene	0870137	8/7/97	8/7/97		10.0	1350	ug/l	
Toluene	"	"	"		10.0	ND	"	
Ethylbenzene	"	"	"		10.0	29.2	"	
Xylenes (total)	"	"	"		20.0	42.6	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*87.8*	%	
MW-40			P708009-17				Water	
Benzene	0870042	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*96.4*	%	

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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BOTHELL • (425) 481-9200 • FAX 485-2992
SPOKANE • (509) 924-9200 • FAX 924-9290
PORTLAND • (503) 643-9200 • FAX 644-2202

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Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-8			P708009-01				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.00780**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0111**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-10			P708009-02				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.00580**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0745**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.0173**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00970**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-11			P708009-03				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0443**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0807**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00400**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0381**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	**0.000250**	"	
MW-13			P708009-04				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.00620**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.144**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.0109**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0167**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000440	ND	"	1

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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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SPOKANE • (509) 924-9200 • FAX 924-9290
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Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-15			P708009-05				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	0.00110	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0847	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00230	"	
Lead	"	"	"	EPA 6020	0.00100	0.00450	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-21			P708009-06				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	0.00270	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.190	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00120	"	
Lead	"	"	"	EPA 6020	0.00100	0.00230	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-21 (DUP)			P708009-07				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	0.00260	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.215	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00120	"	
Lead	"	"	"	EPA 6020	0.00100	0.00440	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-22			P708009-08				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	0.0871	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.167	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00260	"	
Lead	"	"	"	EPA 6020	0.00100	0.0361	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	

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Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-23			**P708009-09**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.00970**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0244**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00220**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0492**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-28			**P708009-11**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.00140**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0266**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00120**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0420**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-31			**P708009-12**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0123**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0182**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00120**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0126**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-32			**P708009-13**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	ND	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0136**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00160**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00890**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-33			P708009-14				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0472**	mg/l	
Barium	"	"	8/13/97	EPA 6020	0.0200	**1.32**	"	
Cadmium	"	"	8/8/97	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00260**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00540**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000880	ND	"	1
MW-36			P708009-15				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0156**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0590**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00280**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00780**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-37			P708009-16				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0183**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0453**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00140**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00320**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000200	ND	"	
MW-40			P708009-17				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0293**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0424**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.0665**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0725**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870279	8/13/09	8/14/97	EPA 7470A	0.000400	**0.000760**	"	1

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*Refer to end of report for text of notes and definitions.

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Dissolved Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-13			P708009-04				Water	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	ND	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0322**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	
MW-21			P708009-06				Water	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	**0.00300**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.220**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	
MW-21 (DUP)			P708009-07				Water	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	**0.00260**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.198**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	
MW-23			P708009-09				Water	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	**0.0100**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0187**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00100**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00120**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Dissolved Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-37			P708009-16				Water	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	0.0210	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0453	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-8			P708009-01				Water	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*81.4*	*%*	*2*
MW-10			P708009-02				Water	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*83.2*	*%*	*2*

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-11			**P708009-03**				**Water**	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		25.0	**294**	"	3
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*NR*	%	*4*
MW-13			**P708009-04**				**Water**	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*81.4*	%	*2*

North Creek Analytical, Inc.

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-15			**P708009-05**				**Water**	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*88.1*	%	*2*
MW-21			**P708009-06**				**Water**	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*82.4*	%	*2*

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled:	7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received:	8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported:	8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-21 (DUP)			P708009-07				Water	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*80.6*	%	*2*
MW-22			P708009-08				Water	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	14.1	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	2.67	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		25.0	220	"	3
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*NR*	%	*4*

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-23			**P708009-09**				**Water**	
Acenaphthene	0870089	8/5/97	8/11/97		5.00	**10.4**	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	**0.106**	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	**0.203**	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	**0.908**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*133*	%	*7*
MW-28			**P708009-11**				**Water**	
Acenaphthene	0870089	8/5/97	8/14/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	**1.61**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*150*	%	*7*

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**Refer to end of report for text of notes and definitions.*

Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-31			**P708009-12**				Water	
Acenaphthene	0870089	8/5/97	8/14/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	0.509	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*83.2*	%	*2*
MW-32			**P708009-13**				Water	
Acenaphthene	0870089	8/5/97	8/14/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*30.4*	%	*2*

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Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-33			**P708009-14**				**Water**	
Acenaphthene	0870089	8/5/97	8/14/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*84.0*	%	*2*
MW-36			**P708009-15**				**Water**	
Acenaphthene	0870089	8/5/97	8/14/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*53.6*	%	*2*

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S Wright

Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-37			P708009-16				Water	
Acenaphthene	0870089	8/5/97	8/14/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	1.12	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*NR*	%	*4*
MW-40			P708009-17				Water	
Acenaphthene	0870089	8/5/97	8/14/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*71.6*	%	*2*

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

BTEX per EPA Method 8020A (Quality Control)
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870042	**Date Prepared: 8/4/97**				**Extraction Method: EPA 5030**					
Blank	**0870042-BLK1**									
Benzene	8/4/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*49.0*	"	*75.0-120*	*98.0*			
LCS	**0870042-BS1**									
Benzene	8/4/97	20.0		18.8	ug/l	67.0-130	94.0			
Toluene	"	20.0		18.2	"	75.0-126	91.0			
Ethylbenzene	"	20.0		18.5	"	76.0-124	92.5			
Xylenes (total)	"	60.0		54.8	"	75.0-126	91.3			
Surrogate: 4-BFB	"	*50.0*		*50.6*	"	*75.0-120*	*101*			
Matrix Spike	**0870042-MS1**		**P708009-02**							
Benzene	8/4/97	20.0	ND	19.5	ug/l	67.0-130	97.5			
Toluene	"	20.0	ND	18.8	"	75.0-126	94.0			
Ethylbenzene	"	20.0	ND	19.2	"	76.0-124	96.0			
Xylenes (total)	"	60.0	ND	56.4	"	75.0-126	94.0			
Surrogate: 4-BFB	"	*50.0*		*49.2*	"	*75.0-120*	*98.4*			
Matrix Spike Dup	**0870042-MSD1**		**P708009-02**							
Benzene	8/4/97	20.0	ND	18.9	ug/l	67.0-130	94.5	13.0	3.13	
Toluene	"	20.0	ND	18.3	"	75.0-126	91.5	13.0	2.79	
Ethylbenzene	"	20.0	ND	18.6	"	76.0-124	93.0	15.0	3.17	
Xylenes (total)	"	60.0	ND	55.2	"	75.0-126	92.0	13.0	2.15	
Surrogate: 4-BFB	"	*50.0*		*50.3*	"	*75.0-120*	*101*			
Batch: 0870070	**Date Prepared: 8/5/97**				**Extraction Method: EPA 5030**					
Blank	**0870070-BLK1**									
Benzene	8/5/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*52.1*	"	*75.0-120*	*104*			
LCS	**0870070-BS2**									
Benzene	8/5/97	20.0		21.2	ug/l	67.0-130	106			

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Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

BTEX per EPA Method 8020/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**0870070-BS2**									
Toluene	8/5/97	20.0		21.2	ug/l	75.0-126	106			
Ethylbenzene	"	20.0		21.9	"	76.0-124	109			
Xylenes (total)	"	60.0		65.2	"	75.0-126	109			
Surrogate: 4-BFB	"	*50.0*		*53.2*	"	*75.0-120*	*106*			
Batch: 0870137	**Date Prepared: 8/7/97**					**Extraction Method: EPA 5030**				
Blank	**0870137-BLK1**									
Benzene	8/7/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*40.9*	"	*75.0-120*	*81.8*			
LCS	**0870137-BS2**									
Benzene	8/7/97	20.0		17.7	ug/l	67.0-130	88.5			
Toluene	"	20.0		18.0	"	75.0-126	90.0			
Ethylbenzene	"	20.0		17.8	"	76.0-124	89.0			
Xylenes (total)	"	60.0		53.6	"	75.0-126	89.3			
Surrogate: 4-BFB	"	*50.0*		*44.4*	"	*75.0-120*	*88.8*			

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S Wright

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

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

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870157	**Date Prepared: 8/6/97**				**Extraction Method: EPA 200/3005**					
Blank	**0870157-BLK1**									
Arsenic	8/8/97			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	8/11/97			ND	"	0.00100				
LCS	**0870157-BS1**									
Arsenic	8/8/97	0.100		0.0844	mg/l	80.0-120	84.4			
Barium	"	0.100		0.0975	"	80.0-120	97.5			
Cadmium	"	0.100		0.0870	"	80.0-120	87.0			
Chromium	"	0.100		0.103	"	80.0-120	103			
Lead	"	0.100		0.0954	"	80.0-120	95.4			
Selenium	8/11/97	0.100		0.0888	"	75.0-115	88.8			
Silver	"	0.100		0.100	"	80.0-120	100			
Duplicate	**0870157-DUP1**		**P708009-01**							
Arsenic	8/8/97		0.00780	0.00720	mg/l			20.0	8.00	
Barium	"		0.0111	0.0103	"			20.0	7.48	
Cadmium	"		ND	ND	"			20.0		
Chromium	"		ND	ND	"			20.0		
Lead	"		ND	0.00380	"			20.0		
Selenium	"		ND	ND	"			20.0		
Silver	8/11/97		ND	ND	"			20.0		
Matrix Spike	**0870157-MS1**		**P708009-01**							
Arsenic	8/8/97	0.100	0.00780	0.0892	mg/l	75.0-125	81.4			
Barium	"	0.100	0.0111	0.105	"	75.0-125	93.9			
Cadmium	"	0.100	ND	0.0844	"	75.0-125	84.4			
Chromium	"	0.100	ND	0.104	"	75.0-125	104			
Lead	"	0.100	ND	0.0916	"	75.0-125	91.6			
Selenium	"	0.100	ND	0.0691	"	75.0-125	69.1			6
Silver	8/11/97	0.100	ND	0.101	"	75.0-125	101			
Matrix Spike	**0870157-MS2**		**P708009-12**							
Arsenic	8/8/97	0.100	0.0123	0.0947	mg/l	75.0-125	82.4			

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Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Total Metals per EPA 3000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**0870157-MS2**		**P708009-12**							
Barium	8/8/97	0.100	0.0182	0.112	mg/l	75.0-125	**93.8**			
Cadmium	"	0.100	ND	0.0849	"	75.0-125	**84.9**			
Chromium	"	0.100	0.00120	0.105	"	75.0-125	**104**			
Lead	"	0.100	0.0126	0.0974	"	75.0-125	**84.8**			
Selenium	"	0.100	ND	0.0703	"	75.0-125	**70.3**			6
Silver	8/11/97	0.100	ND	0.0991	"	75.0-125	**99.1**			
Batch: 0870279	**Date Prepared: 8/13/09**					**Extraction Method: Metals**				
Blank	**0870279-BLK1**									
Mercury	8/14/97			ND	mg/l	0.000200				
LCS	**0870279-BS1**									
Mercury	8/14/97	0.00500		0.00480	mg/l	80.0-120	96.0			
Duplicate	**0870279-DUP1**		**P708009-01**							
Mercury	8/14/97		ND	ND	mg/l			20.0		
Matrix Spike	**0870279-MS1**		**P708009-01**							
Mercury	8/14/97	0.00500	ND	0.00530	mg/l	75.0-125	**106**			
Matrix Spike	**0870279-MS2**		**P708009-11**							
Mercury	8/14/97	0.00500	ND	0.00470	mg/l	75.0-125	**94.0**			

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Dissolved Metals per EPA 6000/7000 Series Methods (Quality Control)
North Creek Analytical Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870093	**Date Prepared: 8/5/97**					**Extraction Method: Metals**				
Blank	**0870093-BLK1**									
Mercury	8/6/97			ND	mg/l	0.000200				
LCS	**0870093-BS1**									
Mercury	8/6/97	0.00500		0.00450	mg/l	80.0-120	90.0			
Duplicate	**0870093-DUP1**		**P707499-02**							
Mercury	8/6/97		ND	ND	mg/l			20.0		
Matrix Spike	**0870093-MS1**		**P707499-02**							
Mercury	8/6/97	0.00500	ND	0.00490	mg/l	75.0-125	98.0			
Matrix Spike	**0870093-MS2**		**P708008-04**							
Mercury	8/6/97	0.00500	ND	0.00480	mg/l	75.0-125	96.0			
Batch: 0870103	**Date Prepared: 8/5/97**					**Extraction Method: EPA 200/3005**				
Blank	**0870103-BLK1**									
Arsenic	8/12/97			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	"			ND	"	0.00100				
LCS	**0870103-BS1**									
Arsenic	8/12/97	0.100		0.0890	mg/l	80.0-120	89.0			
Barium	"	0.100		0.102	"	80.0-120	102			
Cadmium	"	0.100		0.0973	"	80.0-120	97.3			
Chromium	"	0.100		0.105	"	80.0-120	105			
Lead	"	0.100		0.0959	"	80.0-120	95.9			
Selenium	"	0.100		0.0819	"	75.0-105	81.9			
Silver	"	0.0500		0.0475	"	80.0-120	95.0			
Duplicate	**0870103-DUP1**		**P707499-02**							
Arsenic	8/12/97		0.00420	0.00390	mg/l			20.0	7.41	
Barium	"		0.0682	0.0684	"			20.0	0.293	
Cadmium	"		ND	ND	"			20.0		

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*Refer to end of report for text of notes and definitions.

Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Dissolved Metals per EPA 6000/7000 Series Methods Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	**0870103-DUP1**		**P707499-02**							
Chromium	8/12/97		ND	ND	mg/l			20.0		
Lead	"		ND	ND	"			20.0		
Selenium	"		ND	ND	"			20.0		
Silver	"		ND	ND	"			20.0		
Matrix Spike	**0870103-MS1**		**P707499-02**							
Arsenic	8/12/97	0.100	0.00420	0.0927	mg/l	75.0-125	88.5			
Barium	"	0.100	0.0682	0.160	"	75.0-125	91.8			
Cadmium	"	0.100	ND	0.0933	"	75.0-125	93.3			
Chromium	"	0.100	ND	0.105	"	75.0-125	105			
Lead	"	0.100	ND	0.0888	"	75.0-125	88.8			
Selenium	"	0.100	ND	0.0803	"	75.0-125	80.3			
Silver	"	0.0500	ND	0.0451	"	75.0-125	90.2			

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*Refer to end of report for text of notes and definitions.

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Polynuclear Aromatic Compounds per EPA Method 8310/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870089	**Date Prepared: 8/5/97**					**Extraction Method: EPA 3520/600 Series**				
Blank	**0870089-BLK1**									
Acenaphthene	8/11/97			ND	ug/l	5.00				
Acenaphthylene	"			ND	"	5.00				
Anthracene	"			ND	"	5.00				
Benzo (a) anthracene	"			ND	"	0.100				
Benzo (a) pyrene	"			ND	"	0.100				
Benzo (b) fluoranthene	"			ND	"	0.100				
Benzo (ghi) perylene	"			ND	"	0.100				
Benzo (k) fluoranthene	"			ND	"	0.100				
Chrysene	"			ND	"	0.100				
Dibenzo (a,h) anthracene	"			ND	"	0.100				
Fluoranthene	"			ND	"	0.100				
Fluorene	"			ND	"	0.500				
Indeno (1,2,3-cd) pyrene	"			ND	"	0.100				
Naphthalene	"			ND	"	5.00				
Phenanthrene	"			ND	"	5.00				
Pyrene	"			ND	"	0.100				
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.02*	"	*30.0-100*	*80.8*			*2*
LCS	**0870089-BS1**									
Acenaphthylene	8/11/97	5.00		3.88	ug/l	20.0-124	77.6			
Benzo (k) fluoranthene	"	5.00		4.32	"	20.0-159	86.4			
Pyrene	"	5.00		4.74	"	50.0-150	94.8			
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.22*	"	*30.0-100*	*88.8*			*2*
LCS Dup	**0870089-BSD1**									
Acenaphthylene	8/13/97	5.00		3.80	ug/l	20.0-124	76.0	50.0	2.08	
Benzo (k) fluoranthene	"	5.00		4.40	"	20.0-159	88.0	50.0	1.83	
Pyrene	"	5.00		4.64	"	50.0-150	92.8	50.0	2.13	
Surrogate: 2-Fluorobiphenyl	"	*2.50*		*2.24*	"	*30.0-100*	*89.6*			*2*

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**Refer to end of report for text of notes and definitions.*

Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	Willbridge Shell/GATX QTR G WATER	Sampled: 7/30/97 to 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-100.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/21/97 18:24

Notes and Definitions

#	Note
1	The reporting limit for this analyte was raised due to matrix interference.
2	Surrogate value is an estimates.
3	The reporting limit for this analyte was raised due to the high analyte concentration present in the sample.
4	Surrogate recovery is not reportable due to matrix interference.
6	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
7	Surrogate recovery is outside outside control limits due to matrix interference.
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
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical, Inc.

Sandra K. Wright, Project Manager

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CHAIN OF CUSTODY REPORT

Work Order # P708009

REPORT TO:	INVOICE TO:
ATTENTION: KEVIN FREEMAN	ATTENTION: ERIC CONARD
ADDRESS: PEG PORTLAND	ADDRESS:
PHONE: 639-6305 FAX:	P.O. NUMBER: NCA QUOTE #:
PROJECT NAME: WILBRIDGE SHELL/GATX QTR GWATER	
PROJECT NUMBER: 1115-100-2A	
SAMPLED BY: J. CLELAND / CALE FLEMING	

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: (X) Standard | 7 | 5 | 4 | 3 | 2 | 1 | Same Day
Fuels & Hydrocarbon Analyses: 5 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)	Analysis Request: BTEX 8020	PAHs (8270 SIMS)	RCRA METALS (6)	MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
1.	MW-8	7/30/97		X	X	X	W	4	
2.	MW-10			X	X	X		4	
3.	MW-11			X	X	X		4	
4.	MW-13			X	X	2*		5	* TOTAL + DISSOLVED
5.	MW-15			X	X	X		4	
6.	MW-21			X	X	2*		5	* TOTAL + DISSOLVED
7.	MW-21 (DUP)			X	X	2*		5	* TOTAL + DISSOLVED
8.	MW-22			X	X	X		4	
9.	MW-23			X	X	2*		~~4~~ 5	* TOTAL + DISSOLVED
10.	MW-26	↓		X	X	X	↓	4	

RELINQUISHED BY: Jaymi Cleland	DATE: 7/30/97	RECEIVED BY: Larry Spangler	DATE: 8-1-97
PRINT NAME: JAYMI CLELAND	FIRM: PEG	TIME: 1600	PRINT NAME: Larry Spangler	FIRM: NCA	TIME: 1030
RELINQUISHED BY: Larry Spangler	DATE: 8-1-97	RECEIVED BY: Sara McClurg	DATE: 8-1-97
PRINT NAME: Larry Spangler	FIRM: NCA	TIME: 1230	PRINT NAME: Sara McClurg	FIRM: NCA	TIME: 1210

ADDITIONAL REMARKS:

PAGE 1 OF 2

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CHAIN OF CUSTODY REPORT

Work Order # P708009

REPORT TO:
ATTENTION: KEVIN FREEMAN
ADDRESS: PEG
PORTLAND
PHONE 639-6305 FAX:
PROJECT NAME: WILBRIDGE SHELL/GATX QTR GROUND WATER
PROJECT NUMBER: 1115-100-2A
SAMPLED BY: J. CLELAND / CALE FLEMING

INVOICE TO:
ATTENTION: ERIC CONARD
ADDRESS:
P.O. NUMBER: NCA QUOTE #:

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: 10 (Standard) | 7 | 5 | 4 | 3 | 2 | 1 | Same Day
Fuels & Hydrocarbon Analyses: 5 (Standard) | 3-4 | 2 | 1 | Same Day
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

Analysis Request:

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	BTEX 8020	PAHs (8070 SIMS)	RCRA METALS (8)	MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
1	MW-28	7/30/97		X	X	X	W	4	
2	MW-31	↓		X	X	X	↓	4	
3	MW-32	↓		X	X	X	↓	4	
4	MW-33	7/31/97		X	X	X	↓	4	
5	MW-36	↓		X	X	X	↓	4	
6	MW-37	↓		X	X	2*	↓	5	* TOTAL + DISSOLVED
7	MW-40	↓		X	X	X	↓	4	
8									
9									
10									

RELINQUISHED BY (Signature): Jaymi Cleland DATE: 7/31/97
PRINT NAME: JAYMI CLELAND FIRM: PEG TIME: 1540

RECEIVED BY (Signature): [signature] DATE: 8-1-97
PRINT NAME: Larry Spangler FIRM: NCA TIME: 1030

RELINQUISHED BY (Signature): [signature] DATE: 8-1-97
PRINT NAME: Larry Spangler FIRM: NCA TIME: 1230

RECEIVED BY (Signature): Sara McClurg DATE: 8-1-97
PRINT NAME: Sara McClurg FIRM: NCA TIME: 1210

ADDITIONAL REMARKS:

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Pacific Environmental Group - OR	Project: CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number: 1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager: Kevin Freeman	Reported: 8/20/97 16:03

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
B-9	P708008-01	Water	7/31/97
B-10	P708008-02	Water	7/31/97
B-11	P708008-03	Water	7/31/97
B-14	P708008-04	Water	7/31/97
B-14(DUP)	P708008-05	Water	7/31/97
B-28	P708008-06	Water	7/31/97
B-30	P708008-07	Water	7/31/97
CR-8	P708008-08	Water	7/31/97
CR-9	P708008-09	Water	7/31/97
CR-11	P708008-10	Water	7/31/97

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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.

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-9			P708008-01				Water	
Benzene	0870069	8/5/97	8/5/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	2.22	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*96.4*	%	
B-10			P708008-02				Water	
Benzene	0870117	8/6/97	8/7/97		5.00	52.0	ug/l	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*104*	%	
B-11			P708008-03				Water	
Benzene	0870069	8/5/97	8/5/97		2.50	339	ug/l	
Toluene	"	"	"		2.50	150	"	
Ethylbenzene	"	"	"		2.50	141	"	
Xylenes (total)	"	"	"		5.00	448	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*89.6*	%	
B-14			P708008-04				Water	
Benzene	0870041	8/4/97	8/4/97		2.50	407	ug/l	
Toluene	"	"	"		2.50	37.2	"	
Ethylbenzene	"	"	"		2.50	118	"	
Xylenes (total)	"	"	"		5.00	67.0	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*112*	%	
B-14(DUP)			P708008-05				Water	
Benzene	0870041	8/4/97	8/4/97		2.50	332	ug/l	
Toluene	"	"	"		2.50	32.0	"	
Ethylbenzene	"	"	"		2.50	83.5	"	
Xylenes (total)	"	"	"		5.00	51.0	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*104*	%	
B-28			P708008-06				Water	
Benzene	0870041	8/4/97	8/4/97		0.500	2.19	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	12.5	"	

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Refer to end of report for text of notes and definitions.

Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-28 (continued)			P708008-06				Water	
Xylenes (total)	0870041	8/4/97	8/4/97		1.00	2.39	ug/l	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*97.0*	%	
B-30			P708008-07				Water	
Benzene	0870069	8/5/97	8/5/97		0.500	30.0	ug/l	
Toluene	"	"	"		0.500	4.00	"	
Ethylbenzene	"	"	"		0.500	1.22	"	
Xylenes (total)	"	"	"		1.00	7.38	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*94.0*	%	
CR-8			P708008-08				Water	
Benzene	0870117	8/6/97	8/7/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*105*	%	
CR-9			P708008-09				Water	
Benzene	0870041	8/4/97	8/4/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*97.4*	%	
CR-11			P708008-10				Water	
Benzene	0870292	8/13/97	8/13/97		2.50	35.2	ug/l	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	ND	"	
Xylenes (total)	"	"	"		5.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*82.8*	%	

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Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-9			P708008-01				Water	
Arsenic	0870116	8/6/97	8/7/97	EPA 6020	0.00100	0.0204	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.184	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0214	"	
Lead	"	"	8/13/97	EPA 6020	0.00100	0.0310	"	
Selenium	"	"	8/7/97	EPA 6020	0.00100	ND	"	
Silver	"	"	8/14/97	EPA 6020	0.00200	ND	"	
Mercury	0870278	8/13/97	"	EPA 7470A	0.000200	ND	"	2
B-10			P708008-02				Water	
Arsenic	0870116	8/6/97	8/7/97	EPA 6020	0.00100	0.0459	mg/l	
Barium	"	"	"	EPA 6020	0.00200	1.01	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.202	"	
Lead	"	"	8/13/97	EPA 6020	0.00100	0.0858	"	
Selenium	"	"	8/7/97	EPA 6020	0.00100	0.00240	"	
Silver	"	"	8/14/97	EPA 6020	0.00200	ND	"	
Mercury	0870278	8/13/97	"	EPA 7470A	0.000440	ND	"	2
B-11			P708008-03				Water	
Arsenic	0870116	8/6/97	8/7/97	EPA 6020	0.00100	0.0231	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.334	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0432	"	
Lead	"	"	8/13/97	EPA 6020	0.00100	0.0327	"	
Selenium	"	"	8/7/97	EPA 6020	0.00100	ND	"	
Silver	"	"	8/14/97	EPA 6020	0.00200	ND	"	
Mercury	0870278	8/13/97	"	EPA 7470A	0.000440	ND	"	2
B-14			P708008-04				Water	
Arsenic	0870116	8/6/97	8/7/97	EPA 6020	0.00100	0.0258	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.101	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00700	"	
Lead	"	"	8/13/97	EPA 6020	0.00100	0.0114	"	
Selenium	"	"	8/7/97	EPA 6020	0.00100	ND	"	
Silver	"	"	8/14/97	EPA 6020	0.00200	ND	"	
Mercury	0870278	8/13/97	"	EPA 7470A	0.000200	ND	"	

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S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-14(DUP)			**P708008-05**				**Water**	
Arsenic	0870116	8/6/97	8/7/97	EPA 6020	0.00100	**0.0262**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.117**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00890**	"	
Lead	"	"	8/13/97	EPA 6020	0.00100	**0.0141**	"	
Selenium	"	"	8/7/97	EPA 6020	0.00100	ND	"	
Silver	"	"	8/14/97	EPA 6020	0.00200	ND	"	
Mercury	0870278	8/13/97	"	EPA 7470A	0.000200	ND	"	
B-28			**P708008-06**				**Water**	
Arsenic	0870116	8/6/97	8/8/97	EPA 6020	0.00100	**0.00390**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.216**	"	
Cadmium	"	"	"	EPA 6020	0.00100	**0.00390**	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.0202**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0359**	"	
Selenium	"	"	"	EPA 6020	0.00100	**0.00110**	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870278	8/13/97	8/14/97	EPA 7470A	0.000440	ND	"	2
B-30			**P708008-07**				**Water**	
Arsenic	0870116	8/6/97	8/8/97	EPA 6020	0.00100	**0.0226**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.446**	"	
Cadmium	"	"	"	EPA 6020	0.00100	**0.00340**	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.0575**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0526**	"	
Selenium	"	"	"	EPA 6020	0.00100	**0.00120**	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870278	8/13/97	8/14/97	EPA 7470A	0.000440	ND	"	2
CR-8			**P708008-08**				**Water**	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	**0.0231**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.166**	"	
Cadmium	"	"	"	EPA 6020	0.00100	**0.00300**	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.0113**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.0295**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870278	8/13/97	8/14/97	EPA 7470A	0.000440	ND	"	2

North Creek Analytical, Inc.

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S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
CR-9			P708008-09				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	0.0222	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.178	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0107	"	
Lead	"	"	"	EPA 6020	0.00100	0.0106	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870278	8/13/97	8/14/97	EPA 7470A	0.000440	ND	"	2
CR-11			P708008-10				Water	
Arsenic	0870157	8/6/97	8/8/97	EPA 6020	0.00100	0.0681	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.438	"	
Cadmium	"	"	"	EPA 6020	0.00100	0.0440	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0557	"	
Lead	"	"	"	EPA 6020	0.00100	0.149	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00140	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870278	8/13/97	8/14/97	EPA 7470A	0.000440	0.000616	"	2

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Dissolved Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-14			P708008-04				Water	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	**0.0265**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0652**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00110**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	
B-14(DUP)			P708008-05				Water	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	**0.0276**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0656**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	
B-30			P708008-07				Water	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	**0.0153**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0616**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	
CR-9			P708008-09				Water	
Arsenic	0870103	8/5/97	8/12/97	EPA 6020	0.00100	**0.00100**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0339**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	ND	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	"	EPA 6020	0.00100	ND	"	
Mercury	0870093	"	8/6/97	EPA 7470A	0.000200	ND	"	

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

S Wright

Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-9			P708008-01				Water	3
Acenaphthene	0870153	8/7/97	8/18/97		50.0	ND	ug/l	
Acenaphthylene	"	"	"		50.0	ND	"	
Anthracene	"	"	"		50.0	ND	"	
Benzo (a) anthracene	"	"	"		1.00	ND	"	
Benzo (a) pyrene	"	"	"		1.00	ND	"	
Benzo (b) fluoranthene	"	"	"		1.00	ND	"	
Benzo (ghi) perylene	"	"	"		1.00	ND	"	
Benzo (k) fluoranthene	"	"	"		1.00	ND	"	
Chrysene	"	"	"		1.00	ND	"	
Dibenzo (a,h) anthracene	"	"	"		1.00	ND	"	
Fluoranthene	"	"	"		1.00	ND	"	
Fluorene	"	"	"		5.00	11.7	"	
Indeno (1,2,3-cd) pyrene	"	"	"		1.00	ND	"	
Naphthalene	"	"	"		50.0	ND	"	
Phenanthrene	"	"	"		50.0	ND	"	
Pyrene	"	"	8/16/97		1.00	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*79.2*	%	*4*
B-10			P708008-02				Water	3
Acenaphthene	0870153	8/7/97	8/16/97		50.0	ND	ug/l	
Acenaphthylene	"	"	"		50.0	ND	"	
Anthracene	"	"	"		50.0	ND	"	
Benzo (a) anthracene	"	"	"		1.00	ND	"	
Benzo (a) pyrene	"	"	"		1.00	ND	"	
Benzo (b) fluoranthene	"	"	"		1.00	ND	"	
Benzo (ghi) perylene	"	"	"		1.00	ND	"	
Benzo (k) fluoranthene	"	"	"		1.00	ND	"	
Chrysene	"	"	"		1.00	ND	"	
Dibenzo (a,h) anthracene	"	"	"		1.00	ND	"	
Fluoranthene	"	"	"		1.00	ND	"	
Fluorene	"	"	"		5.00	23.2	"	
Indeno (1,2,3-cd) pyrene	"	"	"		1.00	ND	"	
Naphthalene	"	"	"		50.0	ND	"	
Phenanthrene	"	"	"		50.0	ND	"	
Pyrene	"	"	"		1.00	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*90.4*	%	*4*

North Creek Analytical, Inc.

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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-11			**P708008-03**				**Water**	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	**1.93**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	**0.196**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*72.0*	%	
B-14			**P708008-04**				**Water**	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	**0.133**	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	**0.127**	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	**0.660**	"	
Fluorene	"	"	"		0.500	**2.00**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	**5.96**	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	**0.802**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*70.8*	%	

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7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-14(DUP)			P708008-05				Water	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	**0.622**	"	
Fluorene	"	"	"		0.500	**1.82**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	**0.666**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*76.0*	%	
B-28			P708008-06				Water	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*75.6*	%	

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-30			P708008-07				Water	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	**0.183**	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	**0.278**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*70.0*	%	
CR-8			P708008-08				Water	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	**0.268**	"	
Benzo (a) pyrene	"	"	"		0.100	**0.640**	"	
Benzo (b) fluoranthene	"	"	"		0.100	**0.472**	"	
Benzo (ghi) perylene	"	"	"		0.100	**0.794**	"	
Benzo (k) fluoranthene	"	"	"		0.100	**0.216**	"	
Chrysene	"	"	"		0.100	**0.348**	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	**0.500**	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	**0.510**	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	**0.798**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*70.4*	%	

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
CR-9			**P708008-09**				**Water**	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*78.4*	%	
CR-11			**P708008-10**				**Water**	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	2.30	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*67.6*	%	

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

BTEX per EPA Method 8020/WQuality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870041	**Date Prepared: 8/4/97**					**Extraction Method: EPA 5030**				
Blank	**0870041-BLK1**									
Benzene	8/4/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*49.7*	"	*75.0-120*	*99.4*			
LCS	**0870041-BS1**									
Benzene	8/4/97	20.0		19.1	ug/l	67.0-130	95.5			
Toluene	"	20.0		20.9	"	75.0-126	104			
Ethylbenzene	"	20.0		20.9	"	76.0-124	104			
Xylenes (total)	"	60.0		60.8	"	75.0-126	101			
Surrogate: 4-BFB	"	*50.0*		*51.3*	"	*75.0-120*	*103*			
Matrix Spike	**0870041-MS1**		**P708008-06**							
Benzene	8/4/97	20.0	2.19	21.8	ug/l	67.0-130	98.0			
Toluene	"	20.0	ND	21.1	"	75.0-126	106			
Ethylbenzene	"	20.0	12.5	32.7	"	76.0-124	101			
Xylenes (total)	"	60.0	2.39	63.0	"	75.0-126	101			
Surrogate: 4-BFB	"	*50.0*		*49.0*	"	*75.0-120*	*98.0*			
Matrix Spike Dup	**0870041-MSD1**		**P708008-06**							
Benzene	8/4/97	20.0	2.19	22.0	ug/l	67.0-130	99.0	13.0	1.02	
Toluene	"	20.0	ND	21.2	"	75.0-126	106	13.0	0	
Ethylbenzene	"	20.0	12.5	32.6	"	76.0-124	100	15.0	0.995	
Xylenes (total)	"	60.0	2.39	63.3	"	75.0-126	102	13.0	0.985	
Surrogate: 4-BFB	"	*50.0*		*49.4*	"	*75.0-120*	*98.8*			
Batch: 0870069	**Date Prepared: 8/5/97**					**Extraction Method: EPA 5030**				
Blank	**0870069-BLK1**									
Benzene	8/5/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*40.2*	"	*75.0-120*	*80.4*			
LCS	**0870069-BS2**									
Benzene	8/5/97	20.0		17.2	ug/l	67.0-130	86.0			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project: CHEVRON	Sampled:	7/31/97
7320 S.W. Hunziker, Suite 320	Project Number: 1115-200.2A	Received:	8/1/97
Portland, OR 97223	Project Manager: Kevin Freeman	Reported:	8/20/97 16:03

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**0870069-BS2**									
Toluene	8/5/97	20.0		17.6	ug/l	75.0-126	88.0			
Ethylbenzene	"	20.0		17.7	"	76.0-124	88.5			
Xylenes (total)	"	60.0		52.7	"	75.0-126	87.8			
Surrogate: 4-BFB	"	*50.0*		*45.4*	"	*75.0-120*	*90.8*			
Batch: 0870117	**Date Prepared: 8/6/97**					**Extraction Method: EPA 5030**				
Blank	**0870117-BLK1**									
Benzene	8/6/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*50.2*	"	*75.0-120*	*100*			
LCS	**0870117-BS2**									
Benzene	8/6/97	20.0		20.8	ug/l	67.0-130	104			
Toluene	"	20.0		21.4	"	75.0-126	107			
Ethylbenzene	"	20.0		22.0	"	76.0-124	110			
Xylenes (total)	"	60.0		67.2	"	75.0-126	112			
Surrogate: 4-BFB	"	*50.0*		*52.2*	"	*75.0-120*	*104*			
Batch: 0870292	**Date Prepared: 8/13/97**					**Extraction Method: MeOH Extraction**				
Blank	**0870292-BLK1**									
Napthalene	8/13/97			ND	ug/l					
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*39.1*	"	*75.0-120*	*78.2*			
LCS	**0870292-BS2**									
Benzene	8/13/97	20.0		18.1	ug/l	67.0-130	90.5			
Toluene	"	20.0		17.9	"	75.0-126	89.5			
Ethylbenzene	"	20.0		17.6	"	76.0-124	88.0			
Xylenes (total)	"	60.0		52.4	"	75.0-126	87.3			
Surrogate: 4-BFB	"	*50.0*		*40.7*	"	*75.0-120*	*81.4*			

North Creek Analytical, Inc

*Refer to end of report for text of notes and definitions

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Environmental Laboratory Services

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Total Metals per EPA 6000/7000 Series Methods / Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870116	**Date Prepared: 8/6/97**					**Extraction Method: EPA 200/3005**				
Blank	**0870116-BLK1**									
Arsenic	8/7/97			ND	mg/l	**0.00100**				
Barium	"			ND	"	**0.00200**				
Cadmium	"			ND	"	**0.00100**				
Chromium	"			ND	"	**0.00100**				
Lead	"			ND	"	**0.00100**				
Selenium	"			ND	"	**0.00100**				
Silver	8/14/97			ND	"	**0.00200**				
LCS	**0870116-BS1**									
Arsenic	8/7/97	0.100		0.0833	mg/l	80.0-120	83.3			
Barium	"	0.100		0.0926	"	80.0-120	92.6			
Cadmium	8/14/97	0.100		0.0874	"	80.0-120	87.4			
Chromium	"	0.100		0.0995	"	80.0-120	99.5			
Lead	"	0.100		0.0948	"	80.0-120	94.8			
Selenium	8/7/97	0.100		0.0719	"	75.0-115	71.9			5
Silver	8/14/97	0.100		0.0879	"	80.0-120	87.9			
Duplicate	**0870116-DUP1**		**P707489-01**							
Arsenic	8/7/97		ND	ND	mg/l			20.0		
Barium	"		0.0133	0.0129	"			20.0	3.05	
Cadmium	"		ND	ND	"			20.0		
Chromium	"		0.00110	0.00110	"			20.0	0	
Lead	8/12/97		0.0228	0.0201	"			20.0	12.6	
Selenium	8/7/97		ND	ND	"			20.0		
Silver	8/14/97		ND	ND	"			20.0		
Matrix Spike	**0870116-MS1**		**P707489-01**							
Arsenic	8/7/97	0.100	ND	0.0817	mg/l	75.0-125	81.7			
Barium	"	0.100	0.0133	0.103	"	75.0-125	89.7			
Cadmium	"	0.100	ND	0.0821	"	75.0-125	82.1			
Chromium	"	0.100	0.00110	0.0962	"	75.0-125	95.1			
Lead	8/12/97	0.100	0.0228	0.111	"	75.0-125	88.2			
Selenium	8/7/97	0.100	ND	0.0694	"	75.0-125	69.4			6
Silver	8/14/97	0.100	ND	0.0921	"	75.0-125	92.1			
Matrix Spike	**0870116-MS2**		**P707534-01**							
Arsenic	8/8/97	0.100	0.00210	0.0859	mg/l	75.0-125	83.8			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

S Wright

Sandra K. Wright, Project Manager

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Environmental Laboratory Services

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SPOKANE • (509) 924-9200 • FAX 924-9290
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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Total Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**0870116-MS2**		**P707534-01**							
Barium	8/8/97	0.100	0.00820	0.102	mg/l	75.0-125	93.8			
Cadmium	"	0.100	ND	0.0801	"	75.0-125	80.1			
Chromium	"	0.100	0.0495	0.150	"	75.0-125	101			
Lead	"	0.100	0.00440	0.0903	"	75.0-125	85.9			
Selenium	"	0.100	ND	0.0663	"	75.0-125	66.3			6
Batch: 0870157	**Date Prepared: 8/6/97**					**Extraction Method: EPA 200/3005**				
Blank	**0870157-BLK1**									
Arsenic	8/8/97			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	8/11/97			ND	"	0.00100				
LCS	**0870157-BS1**									
Arsenic	8/8/97	0.100		0.0844	mg/l	80.0-120	84.4			
Barium	"	0.100		0.0975	"	80.0-120	97.5			
Cadmium	"	0.100		0.0870	"	80.0-120	87.0			
Chromium	"	0.100		0.103	"	80.0-120	103			
Lead	"	0.100		0.0954	"	80.0-120	95.4			
Selenium	8/11/97	0.100		0.0888	"	75.0-115	88.8			
Silver	"	0.100		0.100	"	80.0-120	100			
Duplicate	**0870157-DUP1**		**P708009-01**							
Arsenic	8/8/97		0.00780	0.00720	mg/l			20.0	8.00	
Barium	"		0.0111	0.0103	"			20.0	7.48	
Cadmium	"		ND	ND	"			20.0		
Chromium	"		ND	ND	"			20.0		
Lead	"		ND	0.00380	"			20.0		
Selenium	"		ND	ND	"			20.0		
Silver	8/11/97		ND	ND	"			20.0		
Matrix Spike	**0870157-MS1**		**P708009-01**							
Arsenic	8/8/97	0.100	0.00780	0.0892	mg/l	75.0-125	81.4			
Barium	"	0.100	0.0111	0.105	"	75.0-125	93.9			
Cadmium	"	0.100	ND	0.0844	"	75.0-125	84.4			

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*Refer to end of report for text of notes and definitions.

Sandra K. Wright, Project Manager

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SPOKANE • (509) 924-9200 • FAX 924-9290
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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

[illegible] Methods per EPA 6000/7000 Series Methods; Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**0870157-MS1**		**P708009-01**							
Chromium	8/8/97	0.100	ND	0.104	mg/l	75.0-125	**104**			
Lead	"	0.100	ND	0.0916	"	75.0-125	**91.6**			
Selenium	"	0.100	ND	0.0691	"	75.0-125	**69.1**			7
Silver	8/11/97	0.100	ND	0.101	"	75.0-125	**101**			
Matrix Spike	**0870157-MS2**		**P708009-12**							
Arsenic	8/8/97	0.100	0.0123	0.0947	mg/l	75.0-125	**82.4**			
Barium	"	0.100	0.0182	0.112	"	75.0-125	**93.8**			
Cadmium	"	0.100	ND	0.0849	"	75.0-125	**84.9**			
Chromium	"	0.100	0.00120	0.105	"	75.0-125	**104**			
Lead	"	0.100	0.0126	0.0974	"	75.0-125	**84.8**			
Selenium	"	0.100	ND	0.0703	"	75.0-125	**70.3**			7
Silver	8/11/97	0.100	ND	0.0991	"	75.0-125	**99.1**			
Batch: 0870278	**Date Prepared: 8/13/97**					**Extraction Method: Metals**				
Blank	**0870278-BLK1**									
Mercury	8/14/97			ND	mg/l	0.000200				
LCS	**0870278-BS1**									
Mercury	8/14/97	0.00500		0.00410	mg/l	80.0-120	82.0			
Duplicate	**0870278-DUP1**		**P707534-01**							
Mercury	8/14/97		ND	ND	mg/l			20.0		
Matrix Spike	**0870278-MS1**		**P707534-01**							
Mercury	8/14/97	0.00500	ND	0.00500	mg/l	75.0-125	**100**			
Matrix Spike	**0870278-MS2**		**P708008-01**							
Mercury	8/14/97	0.0100	ND	0.00960	mg/l	75.0-125	**96.0**			

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Dissolved Metals per EPA 6000/7000 Series Methods/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870093	**Date Prepared: 8/5/97**					**Extraction Method: Metals**				
Blank	**0870093-BLK1**									
Mercury	8/6/97			ND	mg/l	0.000200				
LCS	**0870093-BS1**									
Mercury	8/6/97	0.00500		0.00450	mg/l	80.0-120	90.0			
Duplicate	**0870093-DUP1**		**P707499-02**							
Mercury	8/6/97		ND	ND	mg/l			20.0		
Matrix Spike	**0870093-MS1**		**P707499-02**							
Mercury	8/6/97	0.00500	ND	0.00490	mg/l	75.0-125	98.0			
Matrix Spike	**0870093-MS2**		**P708008-04**							
Mercury	8/6/97	0.00500	ND	0.00480	mg/l	75.0-125	96.0			
Batch: 0870103	**Date Prepared: 8/5/97**					**Extraction Method: EPA 200/3005**				
Blank	**0870103-BLK1**									
Arsenic	8/12/97			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	"			ND	"	0.00100				
LCS	**0870103-BS1**									
Arsenic	8/12/97	0.100		0.0890	mg/l	80.0-120	89.0			
Barium	"	0.100		0.102	"	80.0-120	102			
Cadmium	"	0.100		0.0973	"	80.0-120	97.3			
Chromium	"	0.100		0.105	"	80.0-120	105			
Lead	"	0.100		0.0959	"	80.0-120	95.9			
Selenium	"	0.100		0.0819	"	75.0-105	81.9			
Silver	"	0.0500		0.0475	"	80.0-120	95.0			
Duplicate	**0870103-DUP1**		**P707499-02**							
Arsenic	8/12/97		0.00420	0.00390	mg/l			20.0	7.41	
Barium	"		0.0682	0.0684	"			20.0	0.293	
Cadmium	"		ND	ND	"			20.0		

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

Sandra K. Wright, Project Manager

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled:	7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received:	8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported:	8/20/97 16:03

Dissolved Metals per EPA 6000/7000 Series Method (Quality Control)
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	**0870103-DUP1**		**P707499-02**							
Chromium	8/12/97		ND	ND	mg/l			20.0		
Lead	"		ND	ND	"			20.0		
Selenium	"		ND	ND	"			20.0		
Silver	"		ND	ND	"			20.0		
Matrix Spike	**0870103-MS1**		**P707499-02**							
Arsenic	8/12/97	0.100	0.00420	0.0927	mg/l	75.0-125	88.5			
Barium	"	0.100	0.0682	0.160	"	75.0-125	91.8			
Cadmium	"	0.100	ND	0.0933	"	75.0-125	93.3			
Chromium	"	0.100	ND	0.105	"	75.0-125	105			
Lead	"	0.100	ND	0.0888	"	75.0-125	88.8			
Selenium	"	0.100	ND	0.0803	"	75.0-125	80.3			
Silver	"	0.0500	ND	0.0451	"	75.0-125	90.2			

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Pacific Environmental Group - OR	Project:	CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/20/97 16:03

Polynuclear Aromatic Compounds per EPA Method 8310/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870153	**Date Prepared: 8/7/97**					**Extraction Method: EPA 3520/600 Series**				
Blank	**0870153-BLK1**									
Acenaphthene	8/15/97			ND	ug/l	5.00				
Acenaphthylene	"			ND	"	5.00				
Anthracene	"			ND	"	5.00				
Benzo (a) anthracene	"			ND	"	0.100				
Benzo (a) pyrene	"			ND	"	0.100				
Benzo (b) fluoranthene	"			ND	"	0.100				
Benzo (ghi) perylene	"			ND	"	0.100				
Benzo (k) fluoranthene	"			ND	"	0.100				
Chrysene	"			ND	"	0.100				
Dibenzo (a,h) anthracene	"			ND	"	0.100				
Fluoranthene	"			ND	"	0.100				
Fluorene	"			ND	"	0.500				
Indeno (1,2,3-cd) pyrene	"			ND	"	0.100				
Naphthalene	"			ND	"	5.00				
Phenanthrene	"			ND	"	5.00				
Pyrene	"			ND	"	0.100				
Surrogate: 2-Fluorobiphenyl	"	*50.0*		*41.3*	"	*30.0-100*	*82.6*			
LCS	**0870153-BS1**									
Acenaphthylene	8/15/97	20.0		12.8	ug/l	20.0-124	64.0			
Benzo (k) fluoranthene	"	1.00		0.868	"	20.0-159	86.8			
Pyrene	"	1.00		0.802	"	50.0-150	80.2			
Surrogate: 2-Fluorobiphenyl	"	*50.0*		*37.2*	"	*30.0-100*	*74.4*			
LCS Dup	**0870153-BSD1**									
Acenaphthylene	8/15/97	20.0		13.3	ug/l	20.0-124	66.5	50.0	3.83	
Benzo (k) fluoranthene	"	1.00		0.868	"	20.0-159	86.8	50.0	0	
Pyrene	"	1.00		0.840	"	50.0-150	84.0	50.0	4.63	
Surrogate: 2-Fluorobiphenyl	"	*50.0*		*38.6*	"	*30.0-100*	*77.2*			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

S Wright

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project: CHEVRON	Sampled: 7/31/97
7320 S.W. Hunziker, Suite 320	Project Number: 1115-200.2A	Received: 8/1/97
Portland, OR 97223	Project Manager: Kevin Freeman	Reported: 8/22/97 14:56

Notes and Definitions

#	Note
1	Surrogate recovery is outside control limits due to matrix interference.
2	The reporting limit for this analyte was raised due to matrix interference.
3	Reporting limits raised due to matrix interference and/or dilution necessary for analysis.
4	Surrogate quantitation is an estimate.
5	The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
6	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
7	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already 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
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical, Inc.

Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

CHEVRON U.S.A., Inc. CHAIN OF CUSTODY REPORT

1708008

CHEVRON INFORMATION

CHEVRON Facility #:

Facility Address:

City, State, ZIP:

CHEVRON Contact Name: ~~RENE WHITE~~

CHEVRON Telephone #:

Laboratory Release #:

CONSULTANT INFORMATION

Name: PEG Consultant Project #: 1115-200.2A

Address: PORTLAND

Phone: 639-6305 Fax: 639-7482

Project Manager: K. FREEMAN Consultant Project #:

Sample Collection by: J. CLELAND Airbill #:

Turnaround Times

Standard Analyses (DAYS): 10

RUSH Analyses (HOURS): 24 48

RUSH Analyses (DAYS): 5

O Oregon O Washington O Alaska O Other - Hydrocarbon Methods

	SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W,S,O,A)	# OF CONTAINERS	TPH-HCID	TPH-Gas	BTEX (EPA 8020 Mod.)	TPH-Gas + BTEX	TPH-Diesel	TPH-Diesel Extended	TPH-418.1	Halogen. Volatiles (EPA 8010)	Aromatic Volatiles (EPA 8020)	Pesticides/PCBs or PCBs Only	GC/MS Volatiles (EPA 8240/8260)	PAHs (EPA 8270) SIMS	PAHs by HPLC (EPA 8310)	Lead	Total or Dissolved	RCRA Metals (8)	NCA Sample Number	REMARKS
1	B-9	7/31/97	W	4			X									X				X		
2	B-10			4			X									X				X		
3	B-11			4			X									X				X		
4	B-14			5			X									X				2		TOTAL + DIS.
5	B-14 (DUP)			5			X									X				2		TOTAL + DIS.
6	B-28			4			X									X				X		
7	B-30			5			X									X				2		TOTAL + DIS.
8	CR-8			4			X									X				X		
9	CR-9			5			X									X				2		TOTAL + DIS.
10	CR-11	↓	↓	4			X									X				X		

	Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time
1		PEG	7/31/97 1640		N/A	8-1-97 1030
2		N/A	8-1-97 1230	Sara McClurg	NCA	8-1-97 1210
3						

REPORTS: Level 1 Level 2

SAMPLE PRESERVATION (Iced): Yes No

Fax Copy of Lab Report & COC to CHEVRON: Yes No

Rev 1.0 3/95

Distribution: White - Laboratory Yellow - Consultant Photocopy - CHEVRON

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
B-17	P708080-01	Water	8/1/97
B-18	P708080-02	Water	8/1/97
B-35	P708080-03	Water	8/1/97
B-36	P708080-04	Water	8/1/97
B-37	P708080-05	Water	8/1/97
U-2	P708080-06	Water	8/1/97
U-3	P708080-07	Water	8/1/97
U-3 DUP	P708080-08	Water	8/1/97
U-5	P708080-09	Water	8/1/97

NORTH CREEK ANALYTICAL
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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-17			P708080-01				Water	
Benzene	0870117	8/6/97	8/6/97		5.00	768	ug/l	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*114*	%	
B-18			P708080-02				Water	
Benzene	0870154	8/7/97	8/7/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*102*	%	
B-35			P708080-03				Water	
Benzene	0870154	8/7/97	8/7/97		0.500	8.25	ug/l	
Toluene	"	"	"		0.500	5.19	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*97.6*	%	
B-36			P708080-04				Water	
Benzene	0870076	8/5/97	8/5/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*95.6*	%	
B-37			P708080-05				Water	
Benzene	0870117	8/6/97	8/6/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*100*	%	
U-2			P708080-06				Water	
Benzene	0870076	8/5/97	8/5/97		0.500	6.66	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	3.18	"	

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

BTEX per EPA Method 8020A
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
U-2 (continued)			P708080-06				Water	
Xylenes (total)	0870076	8/5/97	8/5/97		1.00	ND	ug/l	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*101*	%	
U-3			P708080-07				Water	
Benzene	0870076	8/5/97	8/5/97		0.500	14.9	ug/l	
Toluene	"	"	"		0.500	14.8	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	5.42	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*94.0*	%	
U-3 DUP			P708080-08				Water	
Benzene	0870076	8/5/97	8/5/97		0.500	14.8	ug/l	
Toluene	"	"	"		0.500	15.0	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	5.80	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*92.2*	%	
U-5			P708080-09				Water	
Benzene	0870117	8/6/97	8/6/97		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB	"	"	"	*75.0-120*		*122*	%	*1*

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-17			P708080-01				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	0.0527	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.255	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0177	"	
Lead	"	"	"	EPA 6020	0.00100	0.141	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00130	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	ND	"	
B-18			P708080-02				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	0.0256	mg/l	
Barium	"	"	8/11/97	EPA 6020	0.0200	1.40	"	
Cadmium	"	"	8/8/97	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.148	"	
Lead	"	"	"	EPA 6020	0.00100	0.0465	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00320	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	0.000830	"	
B-35			P708080-03				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	0.0360	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0825	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00400	"	
Lead	"	"	"	EPA 6020	0.00100	0.00960	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	ND	"	
B-36			P708080-04				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	0.00750	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0574	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0105	"	
Lead	"	"	"	EPA 6020	0.00100	0.00210	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	ND	"	

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Sandra K. Wright, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-37			P708080-05				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	0.0669	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.198	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0176	"	
Lead	"	"	"	EPA 6020	0.00100	0.00750	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00100	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	ND	"	
U-2			P708080-06				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	0.0102	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0407	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00170	"	
Lead	"	"	"	EPA 6020	0.00100	0.0329	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	ND	"	
U-3			P708080-07				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	0.0365	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.331	"	
Cadmium	"	"	"	EPA 6020	0.00100	0.00180	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0986	"	
Lead	"	"	"	EPA 6020	0.00100	0.127	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00170	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	0.000290	"	
U-3 DUP			P708080-08				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	0.0312	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.980	"	
Cadmium	"	"	"	EPA 6020	0.00100	0.00180	"	
Chromium	"	"	"	EPA 6020	0.00100	0.0994	"	
Lead	"	"	"	EPA 6020	0.00100	0.0581	"	
Selenium	"	"	"	EPA 6020	0.00100	0.00230	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	0.000210	"	

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
U-5			P708080-09				Water	
Arsenic	0870174	8/7/97	8/8/97	EPA 6020	0.00100	0.00890	mg/l	
Barium	"	"	"	EPA 6020	0.00200	0.0783	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	0.00990	"	
Lead	"	"	"	EPA 6020	0.00100	0.0499	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870167	"	8/8/97	EPA 7470A	0.000200	ND	"	

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Dissolved Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
B-17			**P708080-01**				**Water**	
Arsenic	0870176	8/7/97	8/8/97	EPA 6020	0.00100	**0.0441**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0962**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00100**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00340**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870093	8/5/97	8/6/97	EPA 7470A	0.000200	ND	"	
B-37			**P708080-05**				**Water**	
Arsenic	0870176	8/7/97	8/8/97	EPA 6020	0.00100	**0.0317**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0604**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	ND	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00590**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870093	8/5/97	8/6/97	EPA 7470A	0.000200	ND	"	
U-3			**P708080-07**				**Water**	
Arsenic	0870176	8/7/97	8/8/97	EPA 6020	0.00100	**0.0239**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0895**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00100**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00110**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870093	8/5/97	8/6/97	EPA 7470A	0.000200	ND	"	
U-3 DUP			**P708080-08**				**Water**	
Arsenic	0870176	8/7/97	8/8/97	EPA 6020	0.00100	**0.0258**	mg/l	
Barium	"	"	"	EPA 6020	0.00200	**0.0908**	"	
Cadmium	"	"	"	EPA 6020	0.00100	ND	"	
Chromium	"	"	"	EPA 6020	0.00100	**0.00100**	"	
Lead	"	"	"	EPA 6020	0.00100	**0.00110**	"	
Selenium	"	"	"	EPA 6020	0.00100	ND	"	
Silver	"	"	8/11/97	EPA 6020	0.00100	ND	"	
Mercury	0870093	8/5/97	8/6/97	EPA 7470A	0.000200	**0.000330**	"	

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Sandra K. Wright, Project Manager

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PORTLAND • (503) 643-9200 • FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-17			P708080-01				Water	2
Acenaphthene	0870153	8/7/97	8/16/97		50.0	ND	ug/l	
Acenaphthylene	"	"	"		50.0	ND	"	
Anthracene	"	"	"		50.0	ND	"	
Benzo (a) anthracene	"	"	"		1.00	ND	"	
Benzo (a) pyrene	"	"	"		1.00	ND	"	
Benzo (b) fluoranthene	"	"	"		1.00	ND	"	
Benzo (ghi) perylene	"	"	"		1.00	ND	"	
Benzo (k) fluoranthene	"	"	"		1.00	ND	"	
Chrysene	"	"	"		1.00	ND	"	
Dibenzo (a,h) anthracene	"	"	"		1.00	ND	"	
Fluoranthene	"	"	"		1.00	ND	"	
Fluorene	"	"	"		5.00	**13.6**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		1.00	ND	"	
Naphthalene	"	"	"		50.0	ND	"	
Phenanthrene	"	"	"		50.0	ND	"	
Pyrene	"	"	"		1.00	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*84.4*	%	
B-18			P708080-02				Water	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	**1.04**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	**0.119**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*67.8*	%	

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18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-35			**P708080-03**				**Water**	2
Acenaphthene	0870153	8/7/97	8/16/97		50.0	ND	ug/l	
Acenaphthylene	"	"	"		50.0	ND	"	
Anthracene	"	"	"		50.0	ND	"	
Benzo (a) anthracene	"	"	"		1.00	**1.58**	"	
Benzo (a) pyrene	"	"	"		1.00	ND	"	
Benzo (b) fluoranthene	"	"	"		1.00	ND	"	
Benzo (ghi) perylene	"	"	"		1.00	ND	"	
Benzo (k) fluoranthene	"	"	"		1.00	ND	"	
Chrysene	"	"	"		1.00	ND	"	
Dibenzo (a,h) anthracene	"	"	"		1.00	ND	"	
Fluoranthene	"	"	"		1.00	**9.62**	"	
Fluorene	"	"	"		5.00	**20.6**	"	
Indeno (1,2,3-cd) pyrene	"	"	"		1.00	ND	"	
Naphthalene	"	"	"		50.0	ND	"	
Phenanthrene	"	"	"		50.0	ND	"	
Pyrene	"	"	"		1.00	**5.04**	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*73.0*	*%*	
B-36			**P708080-04**				**Water**	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*65.0*	*%*	

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
B-37			**P708080-05**				**Water**	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*74.4*	%	
U-2			**P708080-06**				**Water**	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*66.0*	%	

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
U-3			**P708080-07**				**Water**	
Acenaphthene	0870153	8/7/97	8/15/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*69.2*	%	
U-3 DUP			**P708080-08**				**Water**	
Acenaphthene	0870153	8/7/97	8/16/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.500	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	ND	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*68.0*	%	

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Polynuclear Aromatic Compounds per EPA Method 8310
North Creek Analytical - Portland

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
U-5			P708080-09				Water	
Acenaphthene	0870153	8/7/97	8/16/97		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	
Benzo (ghi) perylene	"	"	"		0.100	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		0.100	0.112	"	
Fluorene	"	"	"		0.500	4.29	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		0.100	0.149	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*30.0-100*		*81.0*	*%*	

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

BTEX by EPA Method 8020/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870076	**Date Prepared: 8/5/97**					**Extraction Method: EPA 5030**				
Blank	**0870076-BLK1**									
Benzene	8/5/97			ND	ug/l	**0.500**				
Toluene	"			ND	"	**0.500**				
Ethylbenzene	"			ND	"	**0.500**				
Xylenes (total)	"			ND	"	**1.00**				
Surrogate: 4-BFB	"	*50.0*		*49.0*	"	*75.0-120*	*98.0*			
LCS	**0870076-BS1**									
Benzene	8/5/97	20.0		19.7	ug/l	67.0-130	98.5			
Toluene	"	20.0		20.9	"	75.0-126	104			
Ethylbenzene	"	20.0		20.3	"	76.0-124	101			
Xylenes (total)	"	60.0		59.3	"	75.0-126	98.8			
Surrogate: 4-BFB	"	*50.0*		*49.4*	"	*75.0-120*	*98.8*			
Matrix Spike	**0870076-MS1**		**P708048-03**							
Benzene	8/5/97	20.0	3.38	23.6	ug/l	67.0-130	**101**			
Toluene	"	20.0	0.887	22.7	"	75.0-126	**109**			
Ethylbenzene	"	20.0	ND	21.5	"	76.0-124	**108**			
Xylenes (total)	"	60.0	ND	63.7	"	75.0-126	**106**			
Surrogate: 4-BFB	"	*50.0*		*48.9*	"	*75.0-120*	*97.8*			
Matrix Spike Dup	**0870076-MSD1**		**P708048-03**							
Benzene	8/5/97	20.0	3.38	23.8	ug/l	67.0-130	**102**	13.0	**0.985**	
Toluene	"	20.0	0.887	22.9	"	75.0-126	**110**	13.0	**0.913**	
Ethylbenzene	"	20.0	ND	21.6	"	76.0-124	**108**	15.0	**0**	
Xylenes (total)	"	60.0	ND	64.0	"	75.0-126	**107**	13.0	**0.939**	
Surrogate: 4-BFB	"	*50.0*		*49.6*	"	*75.0-120*	*99.2*			
Batch: 0870117	**Date Prepared: 8/6/97**					**Extraction Method: EPA 5030**				
Blank	**0870117-BLK1**									
Benzene	8/6/97			ND	ug/l	**0.500**				
Toluene	"			ND	"	**0.500**				
Ethylbenzene	"			ND	"	**0.500**				
Xylenes (total)	"			ND	"	**1.00**				
Surrogate: 4-BFB	"	*50.0*		*50.2*	"	*75.0-120*	*100*			
LCS	**0870117-BS2**									
Benzene	8/6/97	20.0		20.8	ug/l	67.0-130	104			

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled:	8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received:	8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported:	8/22/97 12:20

BTEX per EPA Method 8020A/Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**0870117-BS2**									
Toluene	8/6/97	20.0		21.4	ug/l	75.0-126	107			
Ethylbenzene	"	20.0		22.0	"	76.0-124	110			
Xylenes (total)	"	60.0		67.2	"	75.0-126	112			
Surrogate: 4-BFB	"	*50.0*		*52.2*	"	*75.0-120*	*104*			
Batch: 0870154	**Date Prepared: 8/7/97**				**Extraction Method: EPA 5030**					
Blank	**0870154-BLK1**									
Benzene	8/7/97			ND	ug/l	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB	"	*50.0*		*48.0*	"	*75.0-120*	*96.0*			
LCS	**0870154-BS1**									
Benzene	8/7/97	20.0		18.5	ug/l	67.0-130	92.5			
Toluene	"	20.0		18.0	"	75.0-126	90.0			
Ethylbenzene	"	20.0		18.1	"	76.0-124	90.5			
Xylenes (total)	"	60.0		54.3	"	75.0-126	90.5			
Surrogate: 4-BFB	"	*50.0*		*49.5*	"	*75.0-120*	*99.0*			

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Total Metals per EPA 6000/7000 Series Methods: Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870167	**Date Prepared: 8/7/97**					**Extraction Method: Metals**				
Blank	**0870167-BLK1**									
Mercury	8/8/97			ND	mg/l	**0.000200**				
LCS	**0870167-BS1**									
Mercury	8/8/97	0.00500		0.00510	mg/l	80.0-120	102			
Duplicate	**0870167-DUP1**		**P708084-02**							
Mercury	8/8/97		0.000690	0.000540	mg/l			20.0	24.4	3
Matrix Spike	**0870167-MS1**		**P708084-02**							
Mercury	8/8/97	0.00500	0.000690	0.00540	mg/l	75.0-125	94.2			
Matrix Spike	**0870167-MS2**		**P708125-01**							
Mercury	8/8/97	0.00500	ND	0.00520	mg/l	75.0-125	**104**			
Batch: 0870174	**Date Prepared: 8/7/97**					**Extraction Method: EPA 200/3005**				
Blank	**0870174-BLK1**									
Arsenic	8/8/97			**ND**	mg/l	**0.00100**				
Barium	"			**ND**	"	**0.00200**				
Cadmium	"			**ND**	"	**0.00100**				
Chromium	"			**ND**	"	**0.00100**				
Lead	"			**ND**	"	**0.00100**				
Selenium	"			**ND**	"	**0.00100**				
Silver	8/11/97			**ND**	"	**0.00100**				
LCS	**0870174-BS1**									
Arsenic	8/8/97	0.100		0.0964	mg/l	80.0-120	96.4			
Barium	"	0.100		0.0963	"	80.0-120	96.3			
Cadmium	"	0.100		0.0985	"	80.0-120	98.5			
Chromium	"	0.100		0.0977	"	80.0-120	97.7			
Lead	"	0.100		0.0978	"	80.0-120	97.8			
Selenium	"	0.100		0.101	"	75.0-115	101			
Silver	8/11/97	0.0500		0.0571	"	80.0-120	114			
Duplicate	**0870174-DUP1**		**P708125-01**							
Arsenic	8/8/97		0.00310	0.00320	mg/l			20.0	3.17	
Barium	"		0.0745	0.0778	"			20.0	4.33	
Cadmium	"		ND	ND	"			20.0		

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Total Metals per EPA 6000/7000 Series Methods: Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	**0870174-DUP1**		**P708125-01**							
Chromium	8/8/97		ND	ND	mg/l			20.0		
Lead	"		0.00870	0.00880	"			20.0	1.14	
Selenium	"		0.0970	0.0977	"			20.0	0.719	
Silver	8/11/97		ND	ND	"			20.0		
Matrix Spike	**0870174-MS1**		**P708125-01**							
Arsenic	8/8/97	0.100	0.00310	0.107	mg/l	75.0-125	104			
Barium	"	0.100	0.0745	0.175	"	75.0-125	100			
Cadmium	"	0.100	ND	0.0941	"	75.0-125	94.1			
Chromium	"	0.100	ND	0.105	"	75.0-125	105			
Lead	"	0.100	0.00870	0.0970	"	75.0-125	88.3			
Selenium	"	0.100	0.0970	0.224	"	75.0-125	127			4
Silver	8/11/97	0.0500	ND	0.0275	"	75.0-125	55.0			4
Matrix Spike	**0870174-MS2**		**P708040-01**							
Arsenic	8/8/97	0.100	ND	0.0894	mg/l	75.0-125	89.4			
Barium	"	0.100	0.00900	0.107	"	75.0-125	98.0			
Cadmium	"	0.100	ND	0.0860	"	75.0-125	86.0			
Chromium	"	0.100	0.00180	0.110	"	75.0-125	108			
Lead	"	0.100	0.00710	0.106	"	75.0-125	98.9			
Selenium	"	0.100	ND	0.0724	"	75.0-125	72.4			4
Silver	8/11/97	0.0500	ND	0.0478	"	75.0-125	95.6			

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Dissolved Metals per EPA 3000/7000 Series Methods (Quality Control)
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870093	**Date Prepared: 8/5/97**					**Extraction Method: Metals**				
Blank	**0870093-BLK1**									
Mercury	8/6/97			ND	mg/l	0.000200				
LCS	**0870093-BS1**									
Mercury	8/6/97	0.00500		0.00450	mg/l	80.0-120	90.0			
Duplicate	**0870093-DUP1**		**P707499-02**							
Mercury	8/6/97		ND	ND	mg/l			20.0		
Matrix Spike	**0870093-MS1**		**P707499-02**							
Mercury	8/6/97	0.00500	ND	0.00490	mg/l	75.0-125	98.0			
Matrix Spike	**0870093-MS2**		**P708008-04**							
Mercury	8/6/97	0.00500	ND	0.00480	mg/l	75.0-125	96.0			
Batch: 0870176	**Date Prepared: 8/7/97**					**Extraction Method: EPA 200/3005**				
Blank	**0870176-BLK1**									
Arsenic	8/7/97			ND	mg/l	0.00100				
Barium	"			ND	"	0.00200				
Cadmium	"			ND	"	0.00100				
Chromium	"			ND	"	0.00100				
Lead	"			ND	"	0.00100				
Selenium	"			ND	"	0.00100				
Silver	8/11/97			ND	"	0.00100				
LCS	**0870176-BS1**									
Arsenic	8/7/97	0.100		0.100	mg/l	80.0-120	100			
Barium	"	0.100		0.0975	"	80.0-120	97.5			
Cadmium	"	0.100		0.102	"	80.0-120	102			
Chromium	"	0.100		0.0938	"	80.0-120	93.8			
Lead	"	0.100		0.0985	"	80.0-120	98.5			
Selenium	"	0.100		0.107	"	80.0-110	107			
Silver	8/11/97	0.0500		0.0561	"	80.0-120	112			
Duplicate	**0870176-DUP1**		**P708119-01**							
Arsenic	8/7/97		0.00120	0.00120	mg/l			20.0	0	
Barium	"		0.194	0.201	"			20.0	3.54	
Cadmium	"		ND	ND	"			20.0		

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

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

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	**0870176-DUP1**		**P708119-01**							
Chromium	8/7/97		ND	ND	mg/l			20.0		
Lead	"		ND	ND	"			20.0		
Selenium	"		ND	ND	"			20.0		
Silver	8/11/97		ND	ND	"			20.0		
Matrix Spike	**0870176-MS1**		**P708119-01**							
Arsenic	8/7/97	0.100	0.00120	0.0931	mg/l	75.0-125	91.9			
Barium	"	0.100	0.194	0.294	"	75.0-125	100			
Cadmium	"	0.100	ND	0.0904	"	75.0-125	90.4			
Chromium	"	0.100	ND	0.0947	"	75.0-125	94.7			
Lead	"	0.100	ND	0.0849	"	75.0-125	84.9			
Selenium	"	0.100	ND	0.0864	"	75.0-125	86.4			
Silver	8/11/97	0.0500	ND	0.0486	"	75.0-125	97.2			
Matrix Spike	**0870176-MS2**		**P708104-03**							
Arsenic	8/8/97	0.100	ND	0.0875	mg/l	75.0-125	87.5			
Barium	"	0.100	0.0195	0.120	"	75.0-125	100			
Cadmium	"	0.100	ND	0.0880	"	75.0-125	88.0			
Chromium	"	0.100	0.00100	0.110	"	75.0-125	109			
Lead	"	0.100	ND	0.0919	"	75.0-125	91.9			
Selenium	"	0.100	ND	0.0731	"	75.0-125	73.1			4
Silver	8/11/97	0.0500	ND	0.0536	"	75.0-125	107			

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Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Polynuclear Aromatic Compounds per EPA Method 8310 Quality Control
North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0870153	**Date Prepared: 8/7/97**					**Extraction Method: EPA 3520/600 Series**				
Blank	**0870153-BLK1**									
Acenaphthene	8/15/97			ND	ug/l	5.00				
Acenaphthylene	"			ND	"	5.00				
Anthracene	"			ND	"	5.00				
Benzo (a) anthracene	"			ND	"	0.100				
Benzo (a) pyrene	"			ND	"	0.100				
Benzo (b) fluoranthene	"			ND	"	0.100				
Benzo (ghi) perylene	"			ND	"	0.100				
Benzo (k) fluoranthene	"			ND	"	0.100				
Chrysene	"			ND	"	0.100				
Dibenzo (a,h) anthracene	"			ND	"	0.100				
Fluoranthene	"			ND	"	0.100				
Fluorene	"			ND	"	0.500				
Indeno (1,2,3-cd) pyrene	"			ND	"	0.100				
Naphthalene	"			ND	"	5.00				
Phenanthrene	"			ND	"	5.00				
Pyrene	"			ND	"	0.100				
Surrogate: 2-Fluorobiphenyl	"	*50.0*		*41.3*	"	*30.0-100*	*82.6*			
LCS	**0870153-BS1**									
Acenaphthylene	8/15/97	20.0		12.8	ug/l	20.0-124	64.0			
Benzo (k) fluoranthene	"	1.00		0.868	"	20.0-159	86.8			
Pyrene	"	1.00		0.802	"	50.0-150	80.2			
Surrogate: 2-Fluorobiphenyl	"	*50.0*		*37.2*	"	*30.0-100*	*74.4*			
LCS Dup	**0870153-BSD1**									
Acenaphthylene	8/15/97	20.0		13.3	ug/l	20.0-124	66.5	50.0	3.83	
Benzo (k) fluoranthene	"	1.00		0.868	"	20.0-159	86.8	50.0	0	
Pyrene	"	1.00		0.840	"	50.0-150	84.0	50.0	4.63	
Surrogate: 2-Fluorobiphenyl	"	*50.0*		*38.6*	"	*30.0-100*	*77.2*			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Sandra K. Wright, Project Manager

18939 120th Avenue N.E. Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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NORTH CREEK ANALYTICAL
Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group - OR	Project:	UNOCAL Willbridge, Portland, OR	Sampled: 8/1/97
7320 S.W. Hunziker, Suite 320	Project Number:	1115-300.2A	Received: 8/5/97
Portland, OR 97223	Project Manager:	Kevin Freeman	Reported: 8/22/97 12:20

Notes and Definitions

#	Note
1	Surrogate recovery is outside control limits due to matrix interference.
2	Reporting limits raised due to matrix interference and/or dilution necessary for analysis.
3	Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
4	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical, Inc.

Sandra K. Wright, Project Manager

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

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NORTH CREEK ANALYTICAL
18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

UNOCAL CHAIN OF CUSTODY REPORT

UNOCAL INFORMATION

Facility Number:
Site Address: WILBRIDGE FACILITY
City, State, ZIP: PORTLAND, OR
Site Release Number:
Unocal Manager: MARTIN CRAMER
CERT INFO: (check one) o Evaluation o Remediation
o Detection o Demolition o Closure o Miscellaneous

CONSULTANT INFORMATION

Firm: PEG Project Number: 1115-300.2A
Address: PORTLAND, OR
Phone: 639-6305 Fax:
Project Manager: KEVIN FREEMAN
Sample Collection by: J. CLELAND

Chain of Custody Record #: P708080

Quality Assurance Data Level: [A] [B]
A: Standard Summary
B: Standard + Chromatograms

Laboratory Turnaround Days: [10] [5] [3] [2] [1]

o Oregon o Washington Hydrocarbon Methods

SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W,S,O)	# OF CONTAINERS	TPH-HCID	TPH-Gas	BTEX (EPA 8020 Mod.)	TPH-Gas + BTEX	TPH-Diesel	TPH-Diesel Extended	TPH-418.1	Halogen. Volatiles (EPA 8010)	Aromatic Volatiles (EPA 8020)	Pesticides/PCBs or PCBs Only	GC/MS Volatiles (EPA 8240/8260)	GC/MS Semivolatiles (EPA 8270)	PAHs by HPLC (EPA 8310)	Lead	Total or Dissolved RCRA Metals (8)	NCA SAMPLE NUMBER
1. B-17	8/1/97	W				X								X				5	Total + Dissolved Metals
2. B-18																		4	
3. B-35																		4	
4. B-36																		4	
5. B-37																		5	Total + Diss. Metals
6. U-2																		4	
7. U-3																		5	Total + Diss. Met
8. U-3 DUP.																		5	Total + Diss Me
9. U-5																		4	
10.																			

Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time
1.	PEG	8/1/97 1570		NCA	8-5-97 1140
2.	NCA	8-5-97 13:15	Kari Cline	NCA	8-5-97 13:25
3.					

Final Report Approval

Were all requested results provided? [yes] [no] Define
Were results within requested turnaround? [yes] [no] "No" on back
Final Approval Signature:
Firm: Date:

Page 1 of 1
Rev. 2.2, 11/94

Comments:

Distribution: White - Laboratory Yellow - Consultant Photocopy - Unocal

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