Second Quarter 2005 Groundwater Monitoring and Groundwater Interim Action Status Report Time Oil Northwest Terminal Portland, Oregon

October 28, 2005

Prepared for

Time Oil Co.
2737 W. Commodore Way
Seattle, Washington 98199

LANDAU ASSOCIATES
130 2nd Avenue South
Edmonds, WA 98020
(425) 778-0907

TABLE OF CONTENTS

		Page
1.0	INTRODUCTION	1-1
2.0	SECOND QUARTER 2005 GROUNDWATER MONITORING EVENT	2-1
	2.1 GROUNDWATER LEVEL AND PRODUCT MEASUREMENTS	2-2
	2.1.1 Product Measurements and Product Recovery	2-2
	2.1.2 Upper Water-Bearing Zone	2-3
	2.1.3 Lower Water-Bearing Zone	2-4
	2.2 PHASE II GROUNDWATER QUALITY	2-4
	2.2.1 Upper Water-Bearing Zone	2-5
	2.2.2 Lower Water-Bearing Zone	2-6
	2.2.3 Water Level and Contaminant Trends	2-6
	2.3 PHASE III GROUNDWATER QUALITY	2-8
	2.3.1 Upper Water-Bearing Zone	2-9
	2.3.2 Lower Water-Bearing Zone	2-10
	2.3.3 Water level and Contaminant Trends	2-10
3.0	GROUNDWATER RECOVERY INTERIM ACTION	3-1
4.0	FUTURE GROUNDWATER TASKS	4-1
	4.1 GROUNDWATER MONITORING	4-1
	4.2 GROUNDWATER RECOVERY INTERIM ACTION	4-1
	4.3 ISCO GROUNDWATER INTERIM ACTION	4-1
5.0	USE OF THIS REPORT	5-1
6.0	REFERENCES	6-1

APPENDICES

A Groundwater Level Measurements and Quality Data
B Groundwater Interim Action Recovery Summary
C Measurement and Evaluation Procedures
D Summary of Modifications to Quarterly Groundwater Analysis Program
E Data Validation Report
F Laboratory Data

BZTO104(e)021546

LIST OF FIGURES

Figure	Title
1	Vicinity Map
2	Well Locations
3	Groundwater Elevation Contours, Upper Zone, June 2005
4	Groundwater Elevation Contours, Lower Zone, June 2005
5	PCP Concentrations in GW, Upper Zone and Beyond Confining Unit Boundary, June 2005
6	Total Chromium and Copper in GW, Upper Zone and Beyond Confining Unit Boundary, June 2005
7	PCP Concentrations in Groundwater, Lower Zone, June 2005
8	PCP Concentrations, Selected Upper Zone Wells, April 1997 – June 2005
9	PCP Concentrations, Selected Lower Zone Wells, April 1997 – June 2005
10	PCP Concentrations and Groundwater Elevations, LW-4S, April 1997 – June 2005
11	PCP Concentrations and Groundwater Elevations, LW-11S, April 1997 – June 2005
12	PCP Concentrations, Groundwater Elevations, and River Stage, LW-11D, April 1997 – June 2005
13	Benzene Concentrations in GW, Upper Zone and Beyond Confining Unit Boundary, June 2005
14	Ethylbenzene Concentrations in GW, Upper Zone and Beyond Confining Unit Boundary, June 2005
15	Diesel-Range Hydrocarbons in GW, Upper Zone and Beyond Confining Unit Boundary, June 2005
16	Gasoline-Range Hydrocarbons in GW, Upper Zone and Beyond Confining Unit Boundary, June 2005
17	Benzene Concentrations in Groundwater, Lower Zone, June 2005
18	Ethylbenzene Concentrations in Groundwater, Lower Zone, June 2005
19	Diesel-Range Petroleum Hydrocarbons in Groundwater, Lower Zone, June 2005
20	Gasoline-Range Petroleum Hydrocarbons in Groundwater, Lower Zone, June 2005
21	Total Chromium and Copper in Groundwater, Lower Zone, June 2005
22	Groundwater Concentrations, Nearshore Wells, Selected Analytes 2nd Quarter 2005
23	Diesel-Range Hydrocarbons, Selected Upper Zone Wells, Main Terminal Tank Farm Area
24	Gasoline-Range Hydrocarbons, Selected Upper Zone Wells, Main Terminal Tank Farm Area
25	Diesel-Range Hydrocarbons, Selected Lower Zone Wells, Main Terminal Tank Farm Area
26	Gasoline-Range Hydrocarbons, Selected Lower Zone Wells, Main Terminal Tank Farm Area
27	Diesel-Range Hydrocarbons, Upper Zone Wells, Bell Terminal
28	Gasoline-Range Hydrocarbons, Upper Zone Wells, Bell Terminal
29	Selected Constituents, Well LW-8S, Upper Zone, Main Terminal Tank Farm Area
30	Selected Constituents, Well LW-23D, Lower Zone, Main Terminal Tank Farm Area
31	Selected Constituents, Well LW-25D, Lower Zone, Main Terminal Tank Farm Area
32	Selected Constituents, Well LW-32S, Upper Zone, Bell Terminal
33	Diesel-Range TPH vs. Groundwater Elevation, LW-20S and LW-20D, Main Terminal Tank Farm Area
34	Diesel-Range TPH vs. Groundwater Elevation, LW-30S and LW-30D, Main Terminal Tank Farm Area

BZTO104(e)021547

1.0 INTRODUCTION

This report provides the results of the second quarter 2005 groundwater monitoring event conducted as part of the ongoing Phase II and III remedial investigation (RI) activities at the Time Oil Northwest Terminal (terminal) in Portland, Oregon. This report also provides performance and status information for the Phase II groundwater interim action currently ongoing at the terminal.

Prior to the fourth quarter 2003 event, groundwater monitoring was focused on wells drilled for the Phase II RI at locations within and downgradient of the former pentachlorophenol (PCP) mixing area. Quarterly groundwater monitoring of the Phase II wells has been ongoing at the terminal since April 1997. Starting with the fourth quarter 2003 event, groundwater monitoring data were also collected from wells installed as part of the Phase III RI within the Main Terminal tank farm and Bell Terminal tank farm areas, and other areas of the terminal not covered under previous investigations. Also, in October-November 2004, 12 additional monitoring wells were installed: four along the shoreline of the Willamette River, four in the Bell Terminal tank farm, three in the Main Terminal tank farm area, and one in the Phase II RI area to replace a damaged well. Details on the installation and construction of the 12 new wells are provided in the final Phase III RI report (Landau Associates 2005). The data presented in this report include the results from the Phase II wells used for monitoring of the groundwater interim action (including the ISCO monitoring), the Phase III wells, and the third sampling event for the new wells.

Data from the quarterly monitoring events are used to assess contaminant distribution and groundwater level trends across the terminal. Additional discussion of the Phase III RI activities through the fourth quarter 2004 sampling event is included in the final Phase III RI report (Landau Associates 2005).

The terminal is a former bulk petroleum storage and transfer facility owned by Time Oil Co. (Time Oil) that is located in the industrialized Rivergate area of north Portland, Oregon (Figure 1). Time Oil ceased operations at the terminal on October 31, 2001. Groundwater monitoring is conducted in accordance with the *Phase I/II Remedial Investigation/Feasibility Study (RI/FS)* work plan (Landau Associates 1996), and the Phase III RI work plan (Landau Associates 2001). The groundwater monitoring locations at the terminal are shown on Figure 2.

The second quarter 2005 groundwater monitoring event was conducted from June 6 through June 15, 2005. This report summarizes groundwater elevation and groundwater quality data for the second quarter 2005, transmits analytical laboratory data packages and the associated data validation report, and presents an evaluation of data collected during the second quarter 2005 (April 1 through June 30, 2005)

BZTO104(e)021548

for the groundwater interim action in the upper and lower water-bearing zones relative to compliance with defined performance criteria.

The chemical analyses conducted during this monitoring event for each groundwater sampling location are summarized in Appendix A, Table A-1. Groundwater level measurements collected at the terminal for the second quarter 2005 event and for the previous RI quarterly events since March 1997 are provided in Appendix A, Table A-2. Groundwater quality data for the second quarter 2005 event are provided in Tables A-3 and A-4 for the upper zone wells and Tables A-5 and A-6 for the lower zone wells. Table A-7 is a summary of detected analytes in the nearshore wells, and Table A-8 is a summary of total and dissolved metals in the shoreline wells. A summary of the second quarter 2005 groundwater interim action recovery data is provided in Appendix B. Procedures for collection of water level measurements and groundwater samples and methods for evaluation are provided in Appendix C. A summary of all modifications to the Phase II groundwater quality sampling and analysis requirements, as approved by Oregon Department of Environmental Quality (DEQ), are documented and referenced in Appendix D. The data validation report for the second quarter 2005 data is provided in Appendix E. Laboratory data packages for these data are provided in Appendix F.

As requested by DEQ, a summary of the quarterly water quality data (detected constituents) since March 1997 for the upper and lower zone wells is being provided to DEQ on computer diskette. These tables will continue to be updated following each quarterly event.

BZTO104(e)021549

2.0 SECOND QUARTER 2005 GROUNDWATER MONITORING EVENT

The second quarter 2005 groundwater monitoring event was conducted from June 6 through June 15, 2005. The quarterly event included measurement of water levels at the groundwater monitoring wells, well points, and recovery wells, and at a river gauge established on the south side of the dock extending into the Willamette River (Figure 2); measurement of product thickness in all terminal wells, if observed; and collection of groundwater quality samples. The second quarter 2005 event included the sampling of the routine Phase II monitoring wells for performance of the groundwater interim action (G1A, J1, LW-4S, LW-4DR, LW-6D, LW-7S, LW-8S, LW-9D, LW-10S, LW-10D, LW-11D, and RW-2); selected monitoring wells associated with the Phase II ISCO activities (OX-1S through OX-9S, OX-8D, LW-11S, LW-13S, LW-17D, and LW-18D, and RW-1); and monitoring wells from the Phase III RI.

In October and November 2004, 11 additional wells were installed to address data gaps within the Main Terminal and Bell Terminal tank farm areas, including: four upper zone wells within the Bell Terminal tank farm area (LW-41S, LW-42S, LW-43S, and LW-44S); five wells located beyond the extent of the confining unit, either on the Willamette River shoreline (LW-36D through LW-39D) or on the north side of the Main Terminal tank farm area (LW-45D); and one upper/lower zone well pair (two wells) located on the north side of the Main Terminal tank farm area (LW-40S/D). A twelfth well was installed (LW-4DR) to replace well LW-4D that was damaged during performance of the first ISCO injection event. The 12 wells were sampled during second quarter 2005.

Because the Phase II and Phase III wells were installed to monitor groundwater quality in different areas of the terminal with different historical uses, the Phase II and Phase III groundwater quality data are discussed in separate sections (Sections 2.2 and 2.3, respectively). For discussion purposes, Phase II refers to monitoring locations within and downgradient of the former PCP mixing area and warehouse, and Phase III refers to monitoring locations within and downgradient of the Main Terminal and Bell Terminal tank farm areas and associated petroleum storage operation areas.

For reference, the site monitoring wells, well points, recovery wells, and monitoring points are grouped as follows:

- Phase II: B1, B2, D, G1A, H, HRW-1, J1, J2, J3, L, LW-1S/1D, LW-3D, LW-4S/4DR, LW-5S, LW-6D, LW-8S, LW-9S/9D, LW-10S/10D, LW-11S/11D, LW-13S, LW-14D, LW-15D, LW-16D, LW-17D, LW-18D, OX-1S through OX-7S, OX-8S/8D, OX-9S, PZ-1 through PZ-4, RW-1, RW-2, SDM-1, and river outfall.

- Phase III: K, N, P, Q, O, R, LW-7S, LW-19S, LW-20S/20D, LW-21S, LW-22D, LW-23D, LW-24D, LW-25D, LW-26D, LW-27S/27D, LW-28S, LW-29S/29D, LW-30S/30D, LW-31S, LW-32S/32D, LW-33S, LW-34S, LW-35D, LW-36D, LW-37D, LW-38D, LW-39D, LW-40S/40D, LW-41S, LW-42S, LW-43S, LW-44S, and LW-45D.

BZTO104(e)021550

A summary of the analyses conducted at each sample location included in the second quarter 2005 event is provided in Table A-1. As shown in Table A-1, only select Phase II monitoring wells were sampled during the second quarter of 2005 per the recommendations to DEQ for reduction in sample frequency for the Phase II monitoring wells (Landau Associates 2004a), with the exception of those used to monitor the ISCO injection events. The modifications to the Phase II groundwater quality sampling and analysis requirements to date, as approved by DEQ, are documented and referenced in Appendix D. Section 2.1 presents a summary of the results for the groundwater level measurements for the monitoring locations at the terminal. The groundwater quality data and evaluations of groundwater flow and contaminant occurrence and trends for the Phase II wells and the Phase III wells are presented in Sections 2.2 and 2.3, respectively. The performance and status of the groundwater recovery interim action are discussed in Section 3.0.

2.1 GROUNDWATER LEVEL AND PRODUCT MEASUREMENTS

Groundwater levels were measured at each well for the second quarter 2005 event on June 7, 2005, with the exception of monitoring wells H, LW-21S, and RW-2, which were gauged on June 9, 2005. Each well was also checked for the presence of product. The measurement and evaluation results are presented in the following sections. The measurement and evaluation procedures are provided in Appendix C. The groundwater measurement locations are shown on Figure 2. Groundwater level measurements conducted for the quarterly groundwater sampling events since March 1997 are provided in Table A-2. Historical (pre-Phase II RI) groundwater level measurements conducted from 1993 through 1996 were provided in the Phase II RI report (Landau Associates 2000a).

2.1.1 PRODUCT MEASUREMENTS AND PRODUCT RECOVERY

During the second quarter 2005 event, no measurable product was observed at any of the Phase II wells. However, during the previous sampling event, measurable product was observed in well OX-2S, located downgradient of the PCP mixing area.

During the second quarter 2005 event, measurable product was observed at Phase III wells LW-21S (.09 foot) and LW-27S (.10 foot), located within the Main Terminal tank farm area. Wells LW-21S and LW-27S were installed in September 2003; measurable product was first observed in these wells in the first quarter of 2004. Keck passive product recovery bailers were installed at LW-21S and LW-27S in March 2004. The product recovery bailer at LW-27S was removed during the second quarter 2004 sampling event because no measurable product was noted at the time the water level was measured and to allow the collection of a groundwater quality sample. The product bailer was reinstalled at LW-27S

BZTO104(e)021551

during the third quarter 2004 sampling event to continue the product recovery efforts. There was not enough product accumulated in these wells to conduct any product recovery during the second quarter 2005 event. The recovered product is temporarily contained in a 55-gal drum onsite pending appropriate offsite disposal. Monitoring wells at the terminal will continue to be monitored for the presence of product during future quarterly monitoring events. A record of product observations and thicknesses is provided in Table A-2.

2.1.2 UPPER WATER-BEARING ZONE

Groundwater elevations measured in the upper water-bearing zone (upper zone) wells were used to estimate groundwater flow. Groundwater elevation contours for the upper zone are presented on Figure 3. Groundwater elevations measured during the second quarter 2005 indicate that groundwater flow in the upper zone is generally to the west-southwest toward the Willamette River across the Main Terminal and Bell Terminal tank farm areas. The localized southward shift in groundwater flow, that has historically been apparent within and downgradient of the former PCP mixing area, appears to be due to the influence of the east-west trending storm drain located about 170 ft north of the southern property boundary (Figure 2). Groundwater elevations measured at Phase III wells located along the confining unit boundary in the western portion of the terminal reflect the change from two water-bearing zones (upper and lower) to a single unconfined water-bearing zone. For example, wells LW-9S and LW-10S and piezometers PZ-3 and PZ-4, located near or beyond the extent of the confining unit, are typically dry during summer and fall months. During the wetter winter and spring months, groundwater is typically observed within the upper zone along this boundary. At well LW-27S, the water level appears to represent an intermediate groundwater elevation between the upper zone and lower zone, thereby indicating the edge of the confining unit and the transition from two groundwater zones to one in this area. The groundwater flow patterns in this area mirror the western extent of the confining unit boundary and groundwater gradients increase sharply where the upper and lower zones converge. In the Bell Terminal tank farm area, well LW-41S, which is located where the confining unit is thin and likely discontinuous, was dry during the fourth quarter 2004 and first quarter 2005 quarterly sampling events, but was not dry during the second quarter 2005 event.

Overall, the data collected to date show that the upper zone groundwater levels are influenced by seasonal variations in precipitation, but the groundwater flow patterns do not appear to vary significantly with the seasons.

BZTO104(e)021552

2.1.3 LOWER WATER-BEARING ZONE

Groundwater elevations measured in the lower water-bearing zone (lower zone) wells were used to estimate groundwater flow in the lower zone and in the area where the confining zone is absent. Groundwater elevation contours for the lower zone are presented on Figure 4. The groundwater flow pattern in the lower zone likely represents the combined influence of two factors: 1) upper zone groundwater flow over the confining unit boundary, and 2) the resulting hydrostatic pressure change when transitioning between confined-semiconfined conditions to unconfined conditions west of the confining unit boundary.

Groundwater recovery well RW-2 pumped continuously during the second quarter 2005 for the groundwater interim action, except for periodic shutdowns for system maintenance. The contours indicate that pumping of recovery well RW-2 has modified groundwater flow in the lower zone in proximity to the pumping well. Groundwater flow outside the well RW-2 capture zone is generally west/southwest toward the Willamette River.

2.2 PHASE II GROUNDWATER QUALITY

Analytical results for groundwater collected from the Phase II wells are used to evaluate groundwater quality within and downgradient of the former PCP mixing area and warehouse. The contaminants associated with historical operations in these areas include predominantly PCP and associated carrier compounds. The Phase II wells are currently being sampled on a semiannual basis, as described earlier, except those wells used to monitor the ISCO injection events and groundwater interim action. For this monitoring event, the analytical results for groundwater samples collected from selected Phase II wells were used to evaluate the performance of the groundwater interim action and to assess long-term contaminant concentrations and trends in the Phase II wells in conjunction with sampling conducted within the Phase III areas of the terminal. For the second quarter 2005 event, groundwater from 16 upper zone Phase II wells and 10 lower zone Phase II wells was sampled and analyzed. Monitoring well LW-9S was dry and, therefore, not sampled as part of this event. Discussion of the groundwater interim action is provided in Sections 3.0.

Phase II groundwater samples were analyzed for some or all of the following constituents, as shown in Table A-1: semivolatile organic compounds [SVOCs; U.S. Environmental Protection Agency (EPA) Method 8270]; volatile organic compounds (VOCs; EPA Method 8260) including methyl tert-butyl ether (MTBE) at select wells; PAHs (EPA Method 8270 SIM) at select wells; diesel-range and motor oil-range TPH (NWTPH-Dx); gasoline-range TPH (NWTPH-Gx); twelve priority pollutant metals (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, silver, thallium, and

BZTO104(e)021553

zinc; EPA Methods 6010/7000 series); selenium (EPA Method 6010); total dissolved solids (TDS; EPA Method 160.1); chloride (EPA Method 325.2); field parameters (pH, conductivity, dissolved oxygen, turbidity, and temperature); and ferrous iron (using a Hatch field kit). Analysis for PCP using EPA Method 8270 SIM was also conducted on samples where PCP was not detected above the reporting limit using EPA Method 8270 and for monitoring of the ISCO event. The laboratory analyses were conducted by North Creek Analytical, in Beaverton, Oregon. Dioxin and furan analysis on groundwater samples from wells OX-6S and RW-1 (EPA Method SW8290) was performed by Pace Analytical Services, Inc., in Minneapolis, Minnesota.

Analytical results for the Phase II monitoring wells for the second quarter 2005 event are provided in Table A-3 for the upper zone wells and in Table A-5 for the lower zone wells. A summary of the Phase II results is provided in the following sections.

2.2.1 Upper Water-Bearing Zone

The second quarter 2005 analytical results for the Phase II upper zone wells indicate the following:

- Samples from 10 wells contained concentrations of PCP greater than the laboratory reporting limits (Figure 5). The highest concentrations were detected in the samples from wells OX-2S and OX-6S [1,540 and 600 micrograms per liter (µg/L), respectively], located within and downgradient of the former PCP mixing area. During the previous quarterly event, PCP concentrations were highest in samples from wells RW-1 (205 µg/L), LW-11S (178 µg/L), and OX-6S (127 µg/L), indicating that PCP concentrations increased significantly during the second quarter 2005 event. In addition to PCP, 2,3,4,6-tetrachlorophenol and 2,3,5,6-tetrachlorophenol (breakdown by-products of PCP) were detected at concentrations ranging from 51.6 µg/L (OX-8S) to 655 µg/L (OX-2S).

- Other SVOCs were detected at low concentrations; however, none were greater than 38.5 µg/L (naphthalene at OX-4S).

- VOCs, including benzene, chloroethane, ethylbenzene, isopropylbenzene, p-isopropyltoluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, sec- and tert-butlybenzene, n-propylbenzene, naphthalene, and xylenes, were detected in samples collected from six Phase II wells (J1, LW-4S, LW-7S, LW-8S, LW-11S, and RW-1), at concentrations ranging from 120 µg/L to 158 µg/L.

- The highest concentrations of diesel-range TPH and gasoline-range TPH were observed at well LW-8S (1,350 µg/L and 2,590 µg/L, respectively).

- Arsenic concentrations detected in samples from the upper zone Phase II wells ranged from less than the laboratory reporting limit (i.e., nondetect) to 30.2 µg/L (LW-8S). Chromium concentrations ranged from nondetect to a estimated 3.48 µg/L (RW-1; Figure 6); copper concentrations ranged from nondetect to 20.2 µg/L (LW-4S); lead concentrations were nondetect in all samples except RW-1 (estimated concentration of 2.18 µg/L); nickel

BZTO104(e)021554

concentrations ranged from nondetect (LW-7S) to 249 µg/L (OX-8S); and zinc concentrations ranged from nondetect in most wells to a estimated 22.2 µg/L (RW-1). Antimony, beryllium, cadmium, mercury, selenium, silver, and thallium were not detected in any of the samples analyzed.

- Dioxin and furan analyses were performed on samples from wells OX-6S and RW-1, which are located within and downgradient of the former PCP mixing area. Results from these analyses indicated concentrations, as total equivalency quotient (TEQ), of 0.0027 nanograms per liter (ng/L) at OX-6S and 0.00033 ng/L at RW-1.

2.2.2 Lower Water-Bearing Zone

During second quarter 2005, PCP was not detected above the laboratory reporting limit in groundwater from any of the lower zone wells, as shown on Figure 7. In addition, no other SVOCs were detected above laboratory reporting limits in groundwater from the lower zone wells. The highest concentrations of VOCs were detected in the samples collected from wells G1A and LW-17D; however, none of the detected concentrations were greater than 146 µg/L (isopropylbenzene at G1A). The highest detected concentrations of diesel-range and gasoline-range TPH (759 µg/L and an estimated 1,830 µg/L, respectively) were observed at well LW-17D. The highest concentrations of metals (arsenic, chromium, copper, lead, and nickel) were detected in samples collected from wells G1A and LW-11D. Arsenic concentrations in the samples from the lower zone Phase II wells ranged from 3.45 µg/L (LW018D) to 42.4 µg/L (G1A), chromium concentrations ranged from nondetect to 65 µg/L (LW-11D), copper concentrations ranged from nondetect to 99.9 µg/L (LW-11D), lead concentrations ranged from nondetect to 36.9 µg/L (LW-11D), and nickel concentrations ranged from 2.33 µg/L to 109 µg/L (GIA).

2.2.3 Water Level and Contaminant Trends

The second quarter 2005 data from the Phase II wells were also used to evaluate long-term groundwater level and contaminant trends for groundwater impacted by former PCP-related operations at the terminal. PCP concentrations were evaluated by generating time versus groundwater elevation and time versus concentration plots for the period covered by the Phase II RI quarterly sampling events (April 1997, or first available, through the current quarterly event). Plots of PCP concentrations (maximum concentrations of EPA Methods 8270 and 8040 for events prior to the second quarter 2001 event) versus time for selected upper zone wells (LW-4S, LW-11S, LW-13S, and RW-1) and selected lower zone wells (LW-4D, LW-11D, and RW-2) are provided on Figures 8 and 9. Plots of groundwater elevations and PCP concentrations for upper zone wells LW-4S and LW-11S are shown on Figures 10 and 11. Figure 12 shows groundwater elevations and PCP concentrations at lower zone well LW-11D plotted with the Willamette River stage through the previous quarterly event as mentioned earlier. In addition, PCP

BZTO104(e)021555

concentrations from the second quarter 2005 event for the upper and lower water-bearing zones are shown on Figures 5 and 7 and discussed above.

As shown on Figure 8, the PCP concentrations at the selected upper zone wells show variable concentration trends over time. PCP concentrations at RW-1 decreased throughout 2004, increased slightly in first quarter 2005, and increased again in second quarter 2005 to a concentration of 271 µg/L (from 205 µg/L in first quarter 2005). The concentration of PCP at RW-1 is above the historic low observed during November 2001 (17 µg/L), but well below the historic high (11,000 µg/L) observed in April 2001. PCP concentrations at well LW-11S decreased from February 2004 through first quarter 2005 (from 2,130 to 178 µg/L), but increased in second quarter 2005 to a concentration of 545 µg/L. Historically and during this quarter, PCP concentrations detected at well LW-11S appear to reflect a response to seasonal groundwater fluctuations, as shown on Figure 11, but may also reflect rebound from the ISCO injections conducted in February 2005. PCP concentrations at LW-13S have typically been reported at less than about 1 µg/L since the fourth quarter 2001 event, except during the fourth quarter of 2004. PCP was not detected at LW-13S during the second quarter 2005, and the laboratory reporting limit increased slightly to 0.526 µg/L from 0.479 µg/L. PCP concentrations at well LW-4S appear to reflect seasonal changes in groundwater elevation and resulting changes in PCP concentrations at upgradient locations (Figure 10).

PCP was not detected in Phase II lower zone wells during the second quarter 2005 event. As shown on Figure 9, the PCP concentration in the lower zone at RW-2 has continued to decrease since the May 2004 event (from a concentration of 46.7 µg/L) and PCP was not detected at RW-2 during second quarter 2005. Historically, sporadic detections of PCP have been observed in both LW-11D and G1A; however, during this quarterly event, PCP was not detected in either well. PCP was detected in LW-6D during first quarter 2005 at a concentration of 0.607 µg/L, for the first time since fourth quarter 2003. PCP has been detected in LW-6D five times historically, at concentrations ranging from 0.42 µg/L to 1.1 µg/L, but was not detected in second quarter 2005.

Fluctuations in groundwater elevations in the upper zone reflect typical seasonal variability with seasonal lows during the fall months (October-November) and seasonal highs during the winter and early spring months (January-March) since monitoring began in March 1997. The groundwater levels during the past year are similar to those observed during previous years. Trends in PCP concentrations correlate with groundwater elevations at some locations. Figure 10 shows that there appears to be a historical correlation between the water level and PCP concentration in the upper zone at well LW-4S since the first quarter of 2002. Figure 11 shows that the PCP concentration in the upper zone at well LW-11S typically follows the water level trends in that zone over time. In the lower zone, groundwater levels show trends

BZTO104(e)021556

similar to the seasonal fluctuations in the Willamette River, as shown by the plot of groundwater elevations at LW-11D with river stage on Figure 12. However, there appears to be no correlation between PCP concentrations and groundwater/river stage elevations at LW-11D.

Concentration contours for the upper and lower water-bearing zones (Figure 5 and 7, respectively) indicate that the overall areal extent of the PCP plume has increased slightly from first quarter 2005 in the upper water-bearing zone, but has decreased to below detection levels at all monitoring locations in the lower water-bearing zone. PCP concentrations are slightly higher in most upper water-bearing zone wells than in the previous quarter at most well locations. At well OX-2S, product was observed in first quarter 2005; however, no product was observed during the second quarter 2005 event. The increases in PCP concentrations at most wells appear to be due to seasonal changes in groundwater elevations, or possibly rebound since the February 2005 injection event.

Contaminant and groundwater level trends will continue to be evaluated and discussed as part of future quarterly events.

2.3 PHASE III GROUNDWATER QUALITY

Analytical results for groundwater collected from the Phase III wells are used to evaluate groundwater quality in the former petroleum operations areas of the terminal, mainly focusing on the Main Terminal tank farm and Bell Terminal tank farm areas. The contaminants associated with historical operations in these areas predominantly include petroleum hydrocarbons (gasoline and diesel range); volatile compounds [e.g., benzene, toluene, ethylbenzene, and xylenes (BTEX)]; polycyclic aromatic hydrocarbons (PAHs); and other associated petroleum-related compounds. For the second quarter 2005 event, groundwater from 18 upper zone Phase III wells and 17 lower zone Phase III wells was sampled and analyzed. These wells are identified in Table A-1. Monitoring wells LW-21S and LW-27S were not sampled due to the presence of product at these well locations. The second quarter 2005 sampling event is the seventh consecutive quarterly monitoring event for the Phase III wells that were installed in September 2003 and the third sampling event for the 12 new monitoring wells installed in October 2004, as discussed previously.

Except as shown in Table A-1, all groundwater samples were analyzed for the following constituents: SVOCs (EPA Method 8270); VOCs (EPA Method 8260) including MTBE; PAHs (EPA Method 8270 SIM); diesel-range, motor oil-range, and gasoline-range TPH (NWTPH-Dx and NWTPH-Gx); twelve priority pollutant metals (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, silver, thallium, and zinc; EPA Methods 6010/7000 series); selenium (EPA Method 6010), TDS (EPA Method 160.1); chloride (EPA Method 325.2); and field parameters (pH, conductivity,

BZTO104(e)021557

dissolved oxygen, turbidity, and temperature). The Phase III laboratory analyses were conducted by North Creek Analytical in Beaverton, Oregon.

The groundwater analytical results were contoured using preliminary screening levels. Since the primary groundwater transport pathway of concern at the terminal is from groundwater to surface water, the preliminary screening levels were based on the most conservative published value from the EPA National Recommended Water Quality Criteria (organism only; EPA 2002); DEQ ecological risk screening level values (SLVs; DEQ 2001); Oregon Ambient Water Quality Criteria for Freshwater (fish consumption only; DEQ 2004); and DEQ generic risk-based concentrations for petroleum constituents and total petroleum hydrocarbons (DEQ 2003).

Analytical results for the second quarter 2005 event are provided in Table A-4 for the upper zone wells and Table A-6 for the lower zone wells. A summary of the Phase III results is provided in the following sections.

2.3.1 Upper Water-Bearing Zone

The second quarter 2005 results for the Phase III monitoring wells installed in the upper zone indicate the following:

- SVOCs (bis(2-ethylhexyl)phthalate, 2,4-dimethylphenol, fluorene, 2-methylnapthalene, 3-4-methylphenol, naphthalene, phenanthrene, and phenol) were detected at the following Phase III monitoring wells: LW-20S, LW-32S, LW-42S, LW-44S, N, P, and Q. SVOCs ranged from nondetect to 549 µg/L [bis(2-ethylhexyl)phthalate at well LW-32S].

- VOCs (1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, ethylbenzene, isopropylbenzene, m,p-xylene, naphthalene, n-butylbenzene, n-propylbenzene, o-xylene, sec-butylbenzene, tert-butylbenzene, and/or toluene) were detected at 11 of the 18 wells sampled for these constituents. The detected VOC concentrations ranged from 1.09 µg/L (tert-butylbenzene) at well LW-32S to 2,020 µg/L (benzene) at well P. The highest ethylbenzene concentration (785 µg/L), toluene concentration (66.2 µg/L), and total xylenes concentration (1,870 µg/L) were detected at well N. MTBE was not detected above the laboratory reporting limit in any of the upper zone well samples analyzed. Benzene and ethylbenzene concentrations at the upper zone monitoring locations are shown on Figures 13 and 14.

- Diesel-range TPH was detected at three of the five upper zone Phase III well locations (LW-19S, P, and Q) within the Main Terminal tank farm area. Gasoline-range TPH was detected at all of these five upper zone wells (LW-19S, LW-20S, N, P, and Q). Within the Bell Terminal tank farm area, groundwater from five wells (LW-30S, LW-32S, LW-42S, LW-43S, and LW-44S) contained concentrations of diesel-range and gasoline-range TPH above the laboratory reporting limits. The highest diesel-range TPH concentration was detected at well P (5,410 µg/L) and the highest gasoline-range TPH concentration was detected at well N (7,990 µg/L). Diesel-range TPH and gasoline-range TPH concentrations at the upper zone monitoring locations are shown on Figures 15 and 16, respectively.

BZTO104(e)021558

- The highest individual concentrations of metals (arsenic and lead) were detected in samples collected at 11 of the 18 Phase III upper zone well locations. Arsenic concentrations ranged from nondetect to 47.2 µg/L (LW-19S). Lead concentrations ranged from nondetect to 109 µg/L (P). Chromium and copper were not detected above laboratory reporting limits in the Phase III upper zone wells, with the exception of copper in monitoring wells LW-44S (8.57 µg/L) and P (12.3 µg/L). Chromium and copper concentrations at the upper zone monitoring locations are shown on Figure 6.

2.3.2 LOWER WATER-BEARING ZONE

The second quarter 2005 results for the Phase III monitoring wells installed in the lower zone indicate the following:

- PAHs (acenaphthene, anthracene, fluoranthene, fluorene, phenanthrene, and/or pyrene) were detected in two Phase III lower zone wells (LW-23D and LW-25D), with individual concentrations ranging from 0.160 µg/L (fluorene at well LW-23D) to 2.14 µg/L (fluorene at well LW-25D). No other SVOCs were detected.

- Concentrations of VOCs (benzene, isopropylbenzene, n-propylbenzene, and/or sec-butylbenzene) were detected in 4 of the 17 wells sampled, at concentrations ranging from 1.53 µg/L (n-propylbenzene; LW-23D) to 64.6 µg/L (benzene; LW-23D). MTBE was detected in three Phase III lower zone wells (LW-23D, LW-26D, and LW-27D) located within the Main Terminal tank farm area at concentrations of 10.9 µg/L (LW-23D), 4.68 µg/L (LW-26D), and 4.83 µg/L (LW-27D). Benzene and ethylbenzene concentrations at the lower zone monitoring locations are shown on Figures 17 and 18, respectively.

- Diesel-range TPH was detected in two of the lower zone Phase III wells that were sampled. Gasoline-range TPH was detected in four of the lower zone Phase III wells that were sampled. The samples from monitoring wells LW-23D and LW-25D contained the highest concentrations of gasoline-range TPH (241 µg/L) and diesel-range TPH (520 µg/L), respectively. Diesel-range TPH and gasoline-range TPH concentrations at the lower zone monitoring locations are shown on Figures 19 and 20, respectively.

- Total arsenic was detected in 16 of the 17 Phase III lower zone wells at concentrations ranging from 1.05 µg/L at well LW-39D to 75.7 µg/L at well LW-22D. Five or more priority pollutant metals (arsenic, chromium, copper, lead, nickel, and/or zinc) were detected at 11 of the 17 lower zone wells. Chromium and copper concentrations at the lower zone monitoring locations are shown on Figure 21.

2.3.3 WATER LEVEL AND CONTAMINANT TRENDS

The seven quarters of data collected from the Phase III wells between November 2003 and February 2005 were used to evaluate contaminant trends within areas of the terminal historically used for petroleum operations. The analytes detected in the Phase III wells during the second quarter 2005 and previous quarters are predominantly constituents commonly associated with petroleum products. This contaminant trend discussion focuses on total petroleum hydrocarbons (gasoline- and diesel-range) and VOCs (benzene and ethylbenzene) because these constituents are related to former petroleum operations

BZTO104(e)021559

at the terminal and are indicative of the nature and extent of contamination for petroleum-related compounds; however, other constituents were detected, as described in the previous sections. The diesel-range and gasoline-range TPH, benzene, and ethylbenzene concentrations for the upper and lower water-bearing zones for the second quarter 2005 are shown on Figures 13 through 20.

As shown in Table A-7 and on Figure 22, the analytical results indicate that concentrations for most of the constituents analyzed for the shoreline wells were nondetect and none of the concentrations were greater than the preliminary screening levels. This information confirms the previous quarterly results that there is not currently a complete exposure pathway to receptors in the river via groundwater.

Trends of TPH and associated petroleum-related VOC concentrations were also evaluated using time versus groundwater elevation and time versus concentration plots for the period covered by the Phase III RI quarterly sampling events (October 2003 through the latest quarterly event) and quarterly events since February 1999 for well LW-8S. Plots of diesel-range and gasoline-range TPH concentrations for selected upper zone and lower zone wells in the Main Terminal tank farm area are shown on Figures 23 through 26. These same constituents for upper zone wells in the Bell Terminal tank farm area are shown on Figures 27 and 28. Plots of TPH (diesel- and gasoline-range), benzene, and ethylbenzene including groundwater elevation and Willamette River stage (lower zone wells only) for one upper zone well (LW-8S) and selected lower zone wells (LW-23D and LW-25D) in the Main Terminal tank farm area and upper zone well (LW-32S) in the Bell Terminal tank farm area are provided on Figures 29 through 32 (note the logarithmic scale on these figures). Plots of diesel- and gasoline-range TPH concentrations versus groundwater elevation for paired wells in the Main Terminal tank farm area (LW-20S/D) and in the Bell Terminal tank farm area (LW-30S/D) are shown on Figures 33 and 34.

Concentrations of diesel- and gasoline-range TPH in the samples from the upper and lower zone Phase III wells generally decreased or were similar to those detected during the previous quarter. Upper zone well LW-27S located within the Main Terminal tank farm area has contained product during five of the last six quarters ranging in thickness from 0.69 ft in February 2004 to 0.02 ft in November 2004 and February 2005. A thickness of 0.10 ft was observed in well LW-27S in June 2005. Also, during the last six quarters, measurable product was observed at LW-21S at thicknesses ranging from 1.03 ft in February 2004 to 0.02 ft in February 2005. A thickness of 0.09 ft was observed in well LW-21S in June 2005. Based on information collected for the Phase III RI, the potential sources of product within the Main Terminal tank farm area include a diesel spill resulting from the rupture of Tank 29508 in 1975; an unleaded gasoline spill in the vicinity of wells N, P, and Q in 1994; and, to a lesser extent, incidental leakage along conveyance pipelines. Based on the available information, the diesel-range concentrations in the upper and lower zones (Figures 15 and 19) and the ethylbenzene concentrations in the upper zone (Figure 14) within and near the southeast corner of the Main Terminal tank farm area represent

BZTO104(e)021560

groundwater concentrations associated with separate historic activities conducted at the terminal. The plumes to the west, including upper zone monitoring location LW-8S and the other Main Terminal tank farm area wells, are likely associated with spills related to former petroleum operations within the Main Terminal tank farm area. The plumes to the east, including monitoring locations RW-1 and LW-11S in the upper zone, and B2 and RW-2 in the lower zone, are likely associated with carrier fluids used with PCP during wood treatment formulation activities within the former PCP mixing area. This interpretation is supported by the results for the product sample collected from well LW-11S in November 2000, which contained 3.2 percent PCP in addition to other petroleum constituents, versus the results for the product samples collected from wells LW-21S and LW-27S in April 2004, which contained only petroleum constituents (e.g., gasoline-, diesel-, and motor oil-range TPH). The plumes in the area around well LW-8S are considered to be associated with the former petroleum operations in the Main Terminal tank farm area because upper zone groundwater flow in this area appears to be to the south-southwest (Figure 3) and constituents originating in the former PCP mixing area (e.g., PCP) have not been observed at well LW-8S.

Benzene and ethylbenzene concentrations for the upper zone are presented on Figures 13 and 14, and those for the lower zone are presented on Figures 17 and 18. In general, the overall distribution of these compounds has remained unchanged over the previous six quarters based on the available data. Benzene concentrations at lower zone monitoring location LW-23D located on the riverbank to the west of the Main Terminal tank farm area increased from first quarter 2005 from 8.76 µg/L to 64.6 µg/L this quarter, which is below the high detected during the second quarter 2004 sampling event (132 µg/L). Benzene was not detected in any other lower zone wells during second quarter 2005. The only detections of ethylbenzene in lower zone wells were at LW-17D (8.1 µg/L) and RW-2 (3.39 µg/L).

The diesel-range TPH concentrations in the upper zone within the Main Terminal tank farm area have historically ranged between about 3,000 to 12,000 µg/L (Figure 23). The maximum concentration during the second quarter 2005 was observed at well P (5,410 µg/L; Figure 15) A decrease in diesel-range TPH concentrations was observed in all wells during second quarter 2005. Gasoline-range TPH concentrations in the upper zone within the Main Terminal tank farm area are consistently greatest at well LW-8S with concentrations over time ranging from greater than 2,000 to 15,000 µg/L since this well was first sampled in May 1999 (Figures 24 and 29). Diesel-range TPH concentrations in the lower zone within the Main Terminal tank farm area tend to be significantly greater than gasoline-range TPH concentrations at the same locations over time (Figures 25 and 26), but less overall than the upper zone concentrations for these constituents (Figures 23 and 24). Also, TPH concentrations in groundwater from lower zone wells located beyond the extent of the confining unit in the Main Terminal tank farm area tend to be greater than from wells farther to the east where the confining unit is present. This is likely the

BZTO104(e)021561

result of upper zone groundwater with higher TPH concentrations mixing with lower zone groundwater downgradient of the confining unit boundary. The highest concentration of diesel-range TPH detected since quarterly monitoring began at these wells occurred at well LW-25D in February 2004 (6,700 µg/L). The concentration detected at LW-25D this quarter was 520 µg/L (Figure 31). Overall, the diesel-range concentrations at this well and the other lower zone wells in the Main Terminal tank farm area were lower this quarter (Figure 25). The gasoline-range concentrations for the lower zone wells in the Main Terminal tank farm area showed similar overall trends to the diesel-range concentrations (Figure 26).

In the Bell Terminal tank farm area, diesel-range TPH concentrations in the upper zone are slightly greater than the gasoline-range concentrations, with the highest concentrations occurring this quarter at LW-42S (1,270 µg/L for diesel-range TPH) and LW-32S (971 µg/L for gasoline-range TPH) (Figures 15, 16, 27 and 28). Similar or decreasing concentration trends for both of these constituents were observed in the other upper zone wells between first and second quarters of 2005. Gasoline-range TPH concentrations decreased significantly in well LW-32S from first quarter 2005 (4,670 µg/L) to second quarter 2005 (971 µg/L). In addition, diesel-range TPH concentrations decreased in well LW-44S from a concentration of 9,380 µg/L in first quarter 2005 to 779 µg/L in second quarter 2005. Lower zone groundwater concentrations in the Bell Terminal tank farm area for these constituents (Figures 19 and 20) are much less than the upper zone concentrations (Figures 15 and 16). Also, diesel- and gasoline-range TPH concentrations are much less in upper zone groundwater in the Bell Terminal tank farm area than in the Main Terminal tank farm area.

Comparison of the diesel- and gasoline-range TPH, benzene, and ethylbenzene concentrations with groundwater elevations at selected well locations in the Main Terminal tank farm area indicates that groundwater concentrations in upper zone wells are likely influenced by seasonal fluctuations in groundwater levels, as demonstrated by the long-term monitoring data from well LW-8S (Figure 29). At well LW-8S, the benzene and ethylbenzene concentrations are decreasing, and gasoline-range and diesel-range TPH concentrations have been relatively consistent since about February 2002. At lower zone wells LW-23D and LW-25D (Figures 30 and 31), groundwater elevations correlate with river stage fluctuations, as expected; however, any trend in groundwater concentrations in response to fluctuations in groundwater level or river stage is not apparent from the available data. Diesel-range TPH concentrations at well pair LW-20S/-20D in the Main Terminal tank farm area indicate that the concentrations in the upper and lower zones for this constituent are relatively similar at this location, and are both less than 1.0 mg/L (Figure 33). Also, there does not seem to be a direct correlation between diesel-range TPH concentrations and groundwater levels at these wells based on the available data.

In the Bell Terminal tank farm area, concentrations of benzene and ethylbenzene in upper zone well LW-32S have remained relatively consistent over time and no correlation between groundwater

BZTO104(e)021562

concentrations and groundwater levels is apparent from the available data (Figure 32). This quarter, the diesel-range TPH concentration decreased from 3,130 to 562 µg/L, and the gasoline-range TPH concentration decreased from 4,670 to 971 mg/L at well LW-32S. At well pair LW-30S/LW-30D, trends in diesel-range TPH concentrations and groundwater levels do not correlate. (Figure 34). Diesel-range TPH concentrations have been slightly greater in the upper zone than the lower zone at this well pair.

Concentrations of total chromium and copper in Phase III wells exceeded the preliminary screening level in multiple lower zone wells and wells located beyond the confining unit boundary in the Main Terminal tank farm area. However, none of the total metals concentrations in the shoreline wells, located along the river (LW-36D through LW-39D) or in the upper zone Phase III wells, exceeded the preliminary screening levels. In addition, none of the total metals concentrations in the wells in the Bell Terminal tank farm area exceeded the preliminary screening levels, with the exception of LW-30D.

Samples collected from the shoreline wells were analyzed for both total and dissolved metals during the second quarter 2005. The dissolved metals results were used to assess whether the presence of total chromium and copper observed in groundwater at concentrations exceeding preliminary screening levels during the fourth quarter 2004 event was the result of suspended material present in the samples from the shoreline wells. The second quarter 2005 data indicate that dissolved arsenic was detected in two shoreline wells (LW-38D and LW-39D) and dissolved nickel was detected in one of the four shoreline wells (LW-39D). None of the total or dissolved metals concentrations in the shoreline wells for the second quarter 2005 event exceeded the preliminary screening levels, as shown in Table A-8. Comparison of the dissolved and total metals concentrations indicate that dissolved concentrations of arsenic in well LW-38D and nickel in LW-39D were slightly less than the total metals concentrations, and dissolved arsenic in well LW-39D was slightly more than the total metals concentration. However, the concentrations do not vary by more than 0.89 µg/L at any one location. These data indicate that metals concentrations in the groundwater samples in the shoreline wells were unlikely influenced by the presence of any suspended material in the groundwater samples during the second quarter of 2005.

Long-term trends in the upper and lower zones will continue to be evaluated as part of the quarterly monitoring events.

BZTO104(e)021563

3.0 GROUNDWATER RECOVERY INTERIM ACTION

This section presents a summary of the performance and status of the groundwater interim action system at the terminal for the second quarter of 2005 (April 1 through June 30, 2005). System operation data for the groundwater interim action were evaluated in accordance with the startup monitoring plan (Landau Associates 2000b) to determine compliance with performance criteria for the upper zone and the lower zone at the terminal. Specific performance criteria include: 1) groundwater recovery from an upper zone recovery well (HRW-1) when the pump is operating or when sufficient groundwater is present in the upper zone; 2) continuous pumping from a lower zone recovery well (RW-2), except for brief periods of system maintenance; 3) groundwater flow toward HRW-1 and RW-2 from the downgradient and upgradient directions; 4) reversal of the lower zone groundwater flow direction at the leading edge of the PCP plume; 5) chemical confirmation that continued migration of PCP in groundwater downgradient of RW-2 and HRW-1 is not occurring; and 6) compliance with the requirements of the existing discharge permit. In addition to the six criteria listed above, information is also presented in this section regarding the operation of an upper zone groundwater intercept system located in a storm drain (SDM-1) at the site.

Specific operational information for the second quarter 2005, as it relates to the criteria identified above, is as follows:

- As discussed in Section 2.1, groundwater elevation data were collected from the upper zone monitoring wells on June 7, 2005. The groundwater elevation data are summarized in Table A-2 and presented on Figure 3.

- During the second quarter 2005, groundwater was extracted from the upper zone recovery well (HRW-1) when sufficient water was present in the extraction well. A total of approximately 40,300 gallons of groundwater was recorded as being recovered from HRW-1 during the second quarter of 2005 at an estimated rate of 0.31 gallon per minute (gpm). Extracted water is discharged into Tank 16804 for temporary storage until treated by the wastewater treatment system located at the terminal and is subsequently discharged to the sanitary sewer under a permit with the City of Portland. No sample of the discharge water was collected during the second quarter 2005 because the well was dry at the time of sampling. A summary of groundwater recovery data for HRW-1 is included in Appendix B, Table B-1.

- With the exception of periodic shutdowns for system maintenance, groundwater was extracted continuously from the lower zone during the period from April 1 through June 30, 2005 by operating the groundwater recovery pump in RW-2. A total of approximately 717,800 gallons of groundwater was recorded as being recovered from RW-2 during the second quarter of 2005 at an estimated average rate of 5.5 gpm. The recovery pump in RW-2 discharged water to Tank 16804 for temporary storage until treated by the wastewater treatment system located at the terminal and subsequent discharge to the sanitary sewer under a permit with the City of Portland. A sample of the discharge water was collected on July 6, 2005 and analyzed for PCP. PCP was not detected above the laboratory reporting limit in the discharge sample from RW-2. A summary of the groundwater recovery data for RW-2 is included in Appendix B, Table B-1.

BZTO104(e)021564

- As discussed in Section 2.1, groundwater elevation data were collected from the lower zone wells on June 7, 2005. The groundwater elevation data are summarized in Table A-2 and presented on Figure 4. Based on the groundwater elevation data collected, the groundwater flow direction was reversed locally downgradient of the leading edge of the PCP plume in the lower zone when RW-2 was in operation during this quarter.

- As previously discussed in Section 2.2, groundwater samples were collected at the terminal on June 6 through June 15, 2005. Historically, the extent of groundwater impact has been estimated based on the extent of dissolved-phase PCP. The extent of PCP in the upper and lower zones is depicted on Figures 5 and 7, based on data collected during the June 2005 groundwater sampling event. The lateral extent of PCP from north to south in the upper zone is consistent with previous quarterly events. The lateral extent of PCP from east to west in the upper zone appears to be similar in comparison to the first quarter 2005 event. The second quarter lower zone analytical data indicate that monitoring wells LW-10D, LW-14D, LW-16D, and LW-18D, located south and west of RW-2, did not contain concentrations of PCP greater than the laboratory reporting limit for this sampling event. In addition, RW-2 did not contain concentrations of PCP greater than the laboratory reporting limit.

- Between April 1 and June 30, 2005, 129,700 gallons of groundwater were recorded as being pumped by the groundwater intercept system at storm drain manhole SDM-1 to Tank 16804 for temporary storage and subsequent treatment by the onsite wastewater treatment system. During operation, the pump extracted water from SDM-1 at a rate of approximately 0.99 gpm. No groundwater sample was collected from SDM-1 during the sampling event because the pump was broken and no groundwater was being extracted. During the second quarter 2005 sampling event, the Willamette River level was above the elevation of the outfall of the storm drain line; therefore, no water quality sample was collected for PCP analysis during this sampling event.

The industrial wastewater discharge permit (City of Portland Permit No. 400.121) for discharge of the extracted groundwater following treatment at the terminal's wastewater treatment plant includes the following discharge limitations:

Parameter	Permitted Limit
PCP	40 µg/L
Benzene	50 µg/L
BTEX (1)	750 µg/L
pH	5 to 11.5

(1) Sum of detected concentrations of Benzene, Toluene, Ethylbenzene, Xylenes (BTEX).

A sample of the treated groundwater discharge was collected on June 15, 2005 for analysis of PCP. In addition, the pH of the discharge was monitored throughout the quarter. Sampling results indicate that the PCP concentration was nondetect and pH ranged from 7.4 to 8.4 during the second quarter 2005. Currently, Landau Associates and Time Oil Co. are monitoring the discharge concentration

BZTO104(e)021565

of PCP on a monthly basis and pH readings are collected at least twice a month. Samples collected on April 7, 2005 and June 15, 2005 indicate that no BTEX constituents were detected. The PCP analytical results for the treatment system discharge are provided in Appendix B, Table B-1.

BZTO104(e)021566

4.0 FUTURE GROUNDWATER TASKS

4.1 GROUNDWATER MONITORING

The third quarter 2005 groundwater sampling event was conducted August 15 through 24, 2005. The groundwater monitoring and analytical program for the third quarter 2005 event includes the following: 1) monitoring at Phase II quarterly well locations per the approved modifications outlined in Appendix D; 2) monitoring of ISCO injection monitoring wells as per the ISCO work plan (Landau Associates 2004b); and 3) monitoring of all Phase III RI monitoring wells installed in September 2003 and October 2004. The results for the Phase II and Phase III third quarter 2005 groundwater monitoring event and the third quarter groundwater interim action status will be provided in the *Third Quarter 2005 Groundwater Monitoring and Groundwater Interim Action Status Report.*

4.2 GROUNDWATER RECOVERY INTERIM ACTION

The groundwater recovery interim action system appears to exhibit continued effectiveness at limiting further migration of impacted groundwater in the upper and lower zones. The groundwater recovery system will continue to be operated in the third quarter of 2005. The effectiveness of the current onsite treatment system methodology will be evaluated relative to the potential effectiveness of a granular activated carbon (GAC) treatment system. A cost-benefit analysis will be conducted to assess the potential replacement of the current treatment system with a GAC system.

4.3 ISCO GROUNDWATER INTERIM ACTION

The ISCO interim action appears to be beneficial in the reduction of PCP concentrations in the upper zone groundwater; therefore, an additional ISCO injection event is planned in fourth quarter 2005 or first quarter 2006 when water elevations rise. The higher elevation of the groundwater table should allow for better distribution of ISCO reagents into the upper zone groundwater. The number and proposed locations for the injection points will be identified following a review of the third quarter 2005 groundwater analytical data.

BZTO104(e)021567

5.0 USE OF THIS REPORT

This quarterly groundwater report has been prepared by Landau Associates for the exclusive use of Time Oil Co. for specific application to the Northwest Terminal. Services for this project were conducted in accordance with the Environmental Services Contract between Time Oil Co. and Landau Associates, Inc. Landau Associates has performed our services in accordance with generally accepted engineering and consulting standards for environmental work in effect at the time and locality services were performed. The reuse of information, conclusions, and recommendations provided herein by Time Oil Co. or others in connection with any site other than the Northwest Terminal without Landau Associates' written permission shall be at the sole risk of Time Oil Co. and without liability to Landau Associates.

This document was prepared under the supervision and direction of the following key staff.

LANDAU ASSOCIATES, INC.

Evalyn I. Albright
Senior Staff Environmental Scientist

Rebekah Brooks
Project Manager

Timothy L. Syverson, R.G.
Associate Geologist

EIA/RB/TLS/tam

BZTO104(e)021568

6.0 REFERENCES

DEQ. 2004. Oregon Ambient Water Quality Criteria for Freshwater

DEQ. 2003. *Risked-Based Decision Making for the Remediation of Petroleum-Contaminated Sites.* Oregon Department of Environmental Quality. September 22.

DEQ. 2001. *Guidance for Ecological Risk Assessment Level II Screening Level Values.* Oregon Department of Environmental Quality. December.

EPA. 2002. *National Recommended Water Quality Criteria: 2002.* EPA-822-R-02-047. U.S. Environmental Protection Agency. November.

Landau Associates. 2005. *Phase III Remedial Investigation Report, Time Oil Northwest Terminal, Portland, Oregon.* July 20.

Landau Associates. 2004a. Memorandum re: *Modification to Wastewater Treatment System, Time Oil NW Terminal, Portland, Oregon.* Prepared for A. O'Roke, City of Portland. March 12.

Landau Associates. 2004b. *Work Plan, In Situ Chemical Oxidation Interim Remedial Action, Time Oil Northwest Terminal, Portland, Oregon.* May 11.

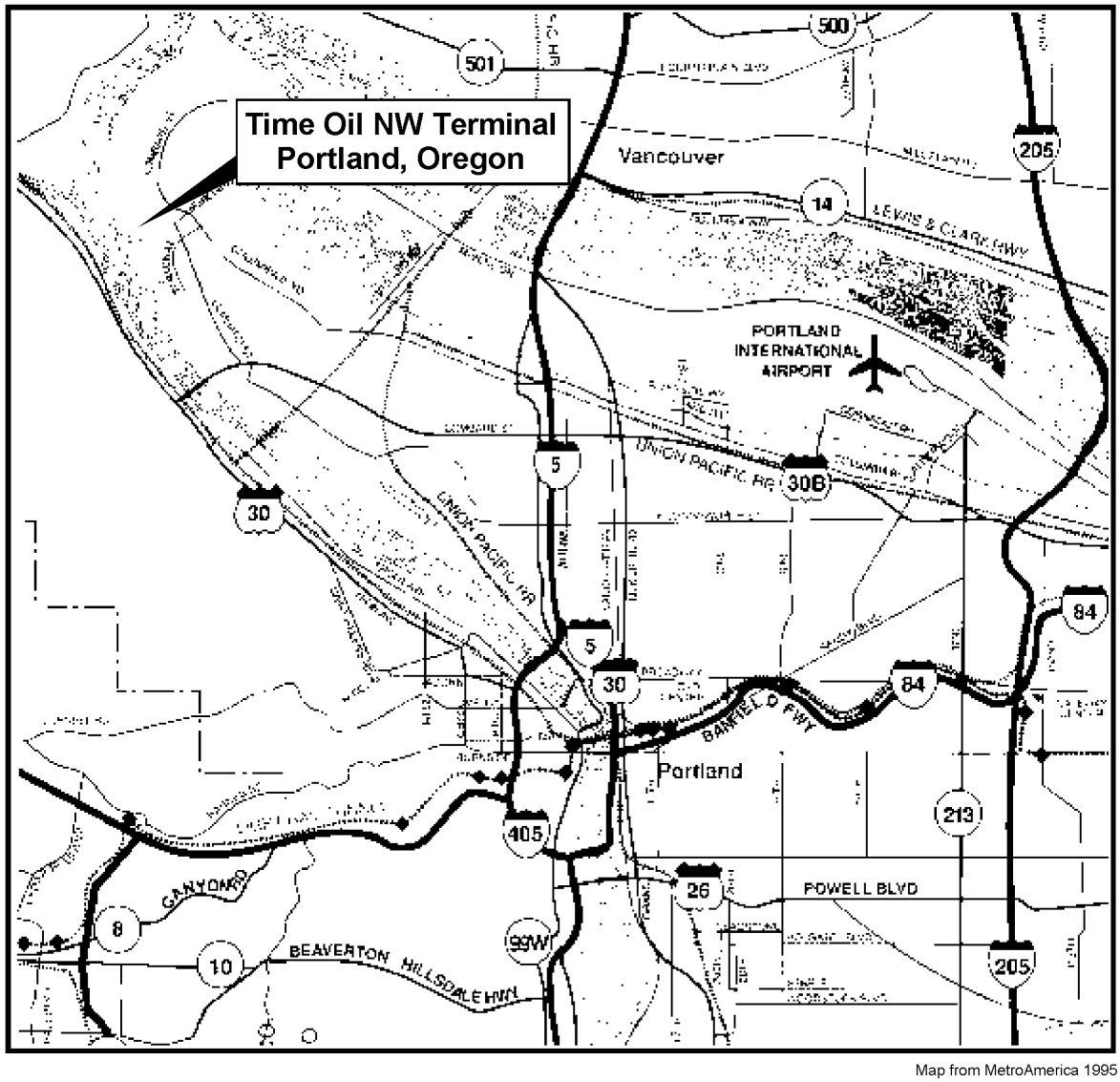
Landau Associates. 2001. *Work Plan, Phase III Remedial Investigation, Time Oil Northwest Terminal, Portland, Oregon.* June 18.

Landau Associates. 2000a. Report, *Phase II Remedial Investigation, Time Oil Co. Northwest Terminal.* Prepared for Time Oil Co., Seattle, Washington. April 6.

Landau Associates. 2000b. *Startup Plan, Groundwater Interim Action, Time Oil Co. Northwest Terminal, Portland, Oregon.* July 14.

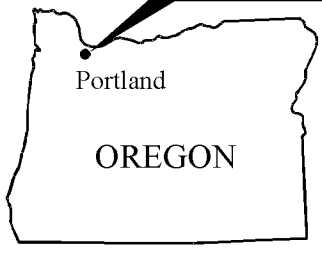
Landau Associates. 1996. *Work Plan, Phases I and II, Remedial Investigation/Feasibility Study, Time Oil Co. Northwest Terminal.* Prepared for Time Oil Co., Seattle, Washington. May 10.

BZTO104(e)021569



Map from MetroAmerica 1995

SITE LOCATION
(see enlarged map area above)



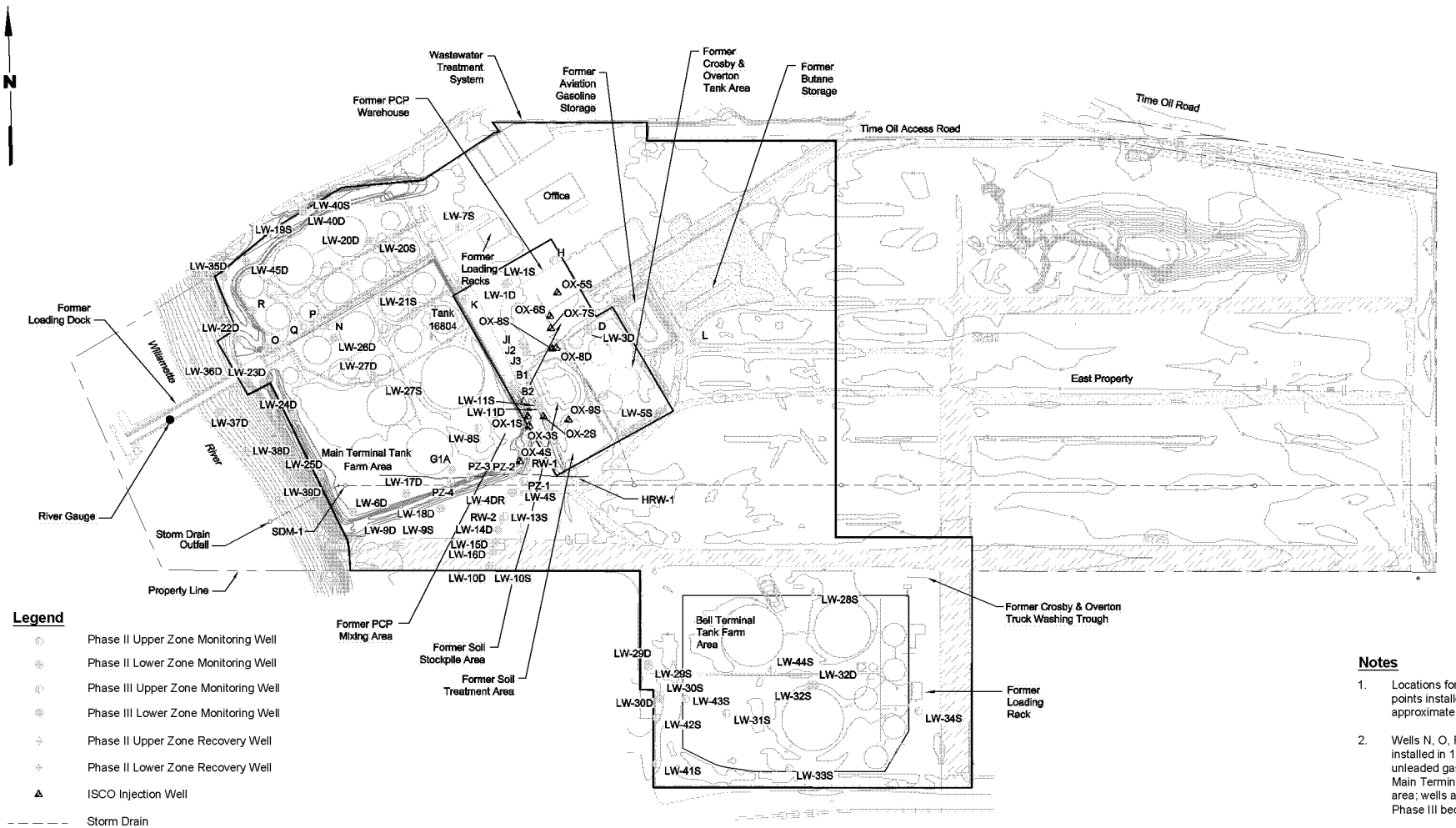
0 2 4
Approximate Scale in Miles

Time Oil | T:\231\001\Vicinity Map.cdr (C) 05/10/2002

LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**Vicinity Map**	Figure 1

BZTO104(e)021570



Legend

- Phase II Upper Zone Monitoring Well
- Phase II Lower Zone Monitoring Well
- Phase III Upper Zone Monitoring Well
- Phase III Lower Zone Monitoring Well
- Phase II Upper Zone Recovery Well
- Phase II Lower Zone Recovery Well
- ISCO Injection Well
- Storm Drain
- Manhole
- Asphalt
- Gravel
- HRW-1 — Horizontal Recovery Well-Upper Zone (Dashes Denote Screened Interval)

Notes

1. Locations for some wells/well points installed pre-1996 are approximate.
2. Wells N, O, R, P, and Q were installed in 1994 following an unleaded gasoline spill in the Main Terminal tank farm area; wells are designated as Phase III because of location.
3. Black and white reproduction of this color original may reduce its effectivness and lead to incorrect interpretation.

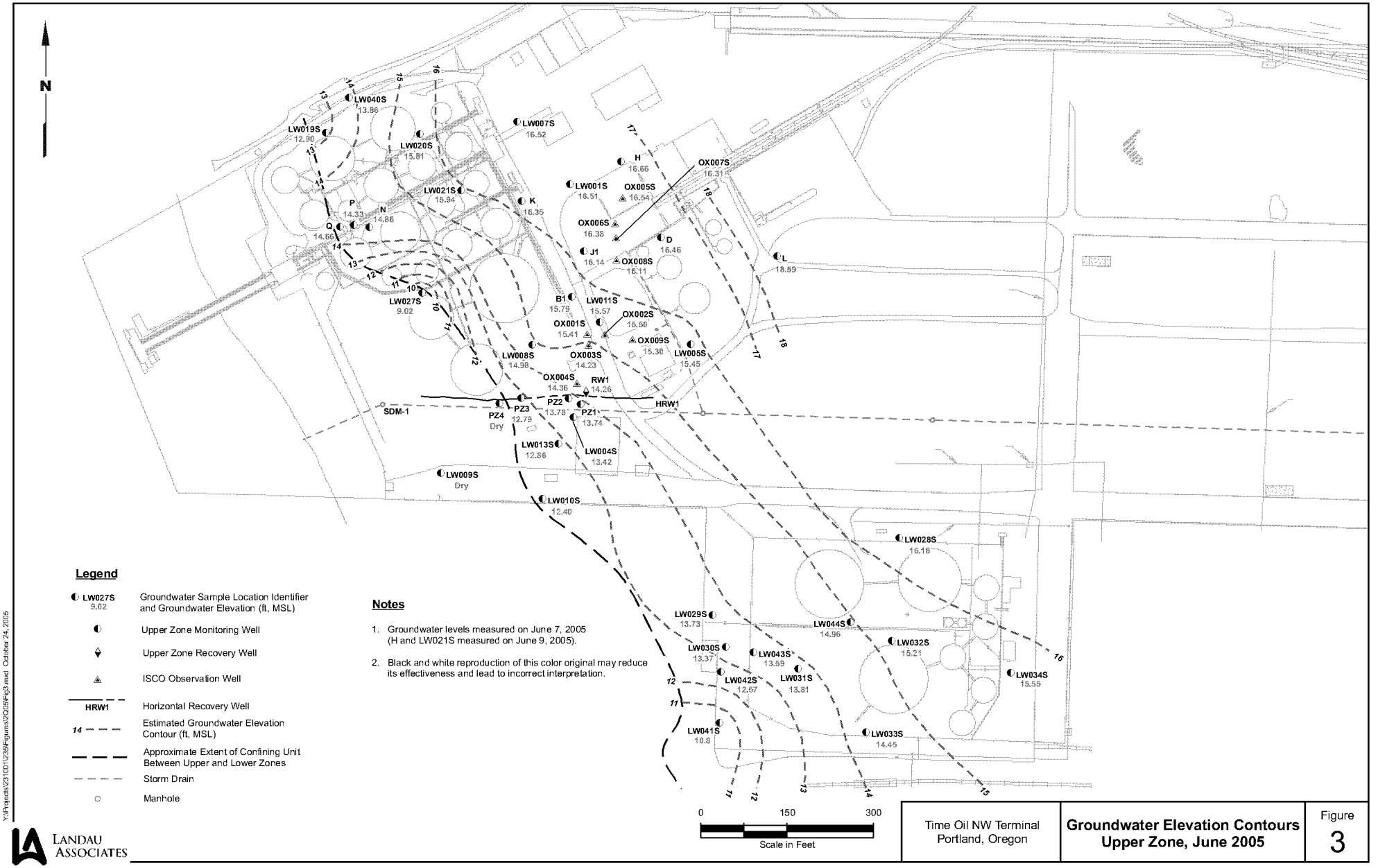
0 200 400
Scale in Feet

LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**Well Locations**	Figure 2

Time Oil NW Terminal | X:\231100\1235\QD05\Fig2.dwg (A) 'Figure 2" 10/24/2005

BZTO104(e)021571



Legend

LW027S 9.02	Groundwater Sample Location Identifier and Groundwater Elevation (ft, MSL)
	Upper Zone Monitoring Well
	Upper Zone Recovery Well
	ISCO Observation Well
HRW1	Horizontal Recovery Well
14	Estimated Groundwater Elevation Contour (ft, MSL)
	Approximate Extent of Confining Unit Between Upper and Lower Zones
	Storm Drain
	Manhole

Notes

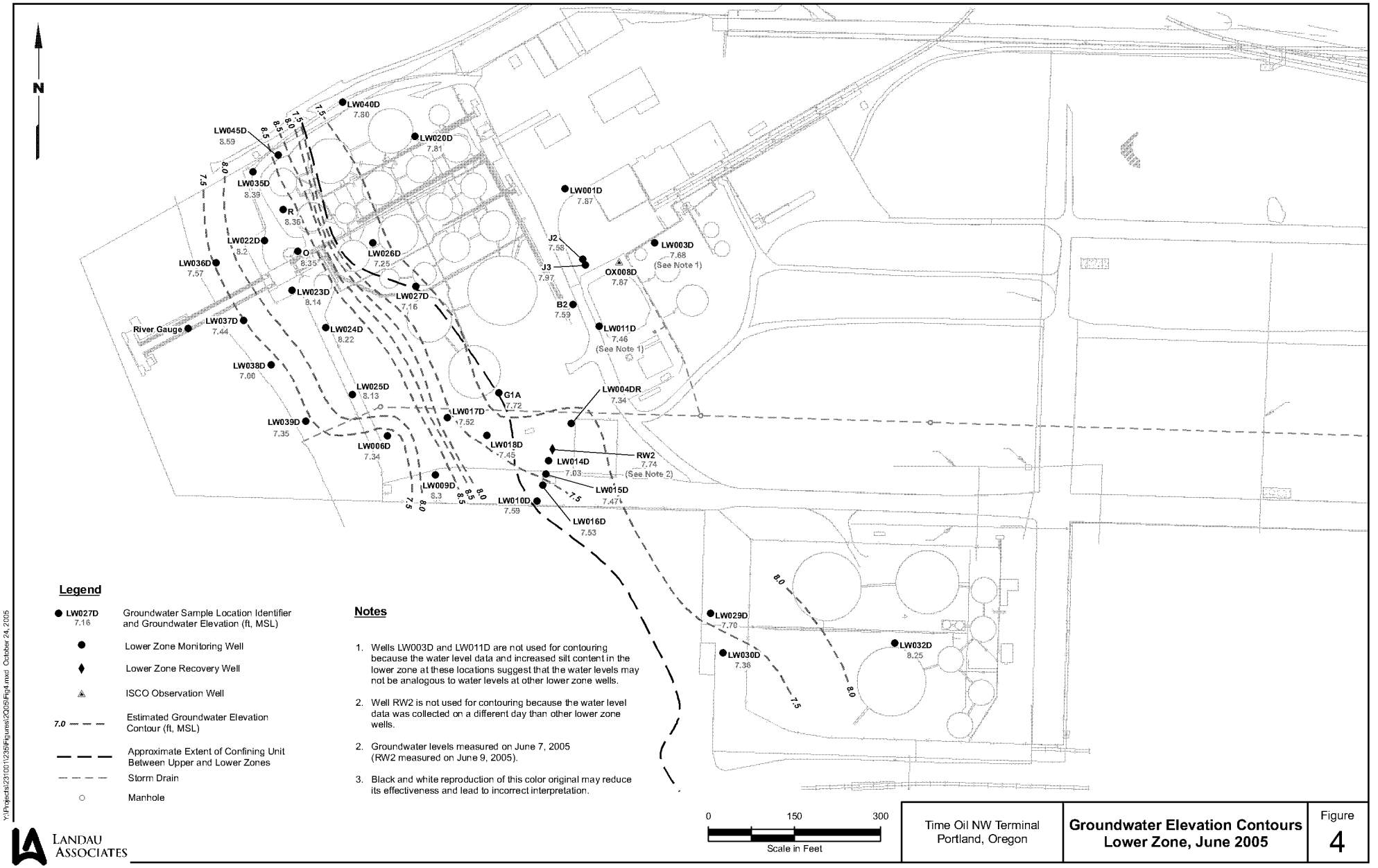
1. Groundwater levels measured on June 7, 2005 (H and LW021S measured on June 9, 2005).
2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Y:\Projects\231001\235\Figures\2Q05\Fig3.mxd October 24, 2005

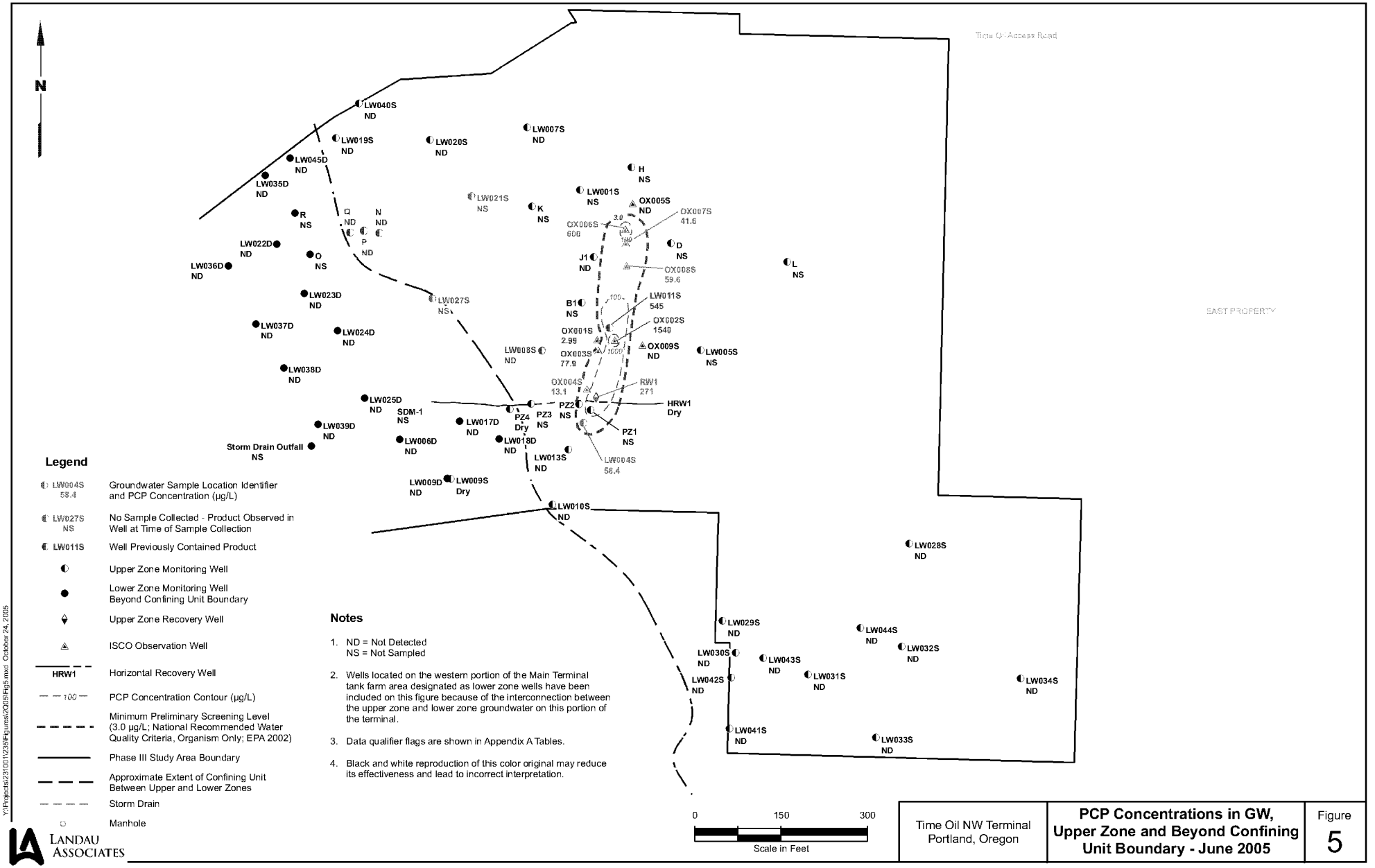
LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**Groundwater Elevation Contours Upper Zone, June 2005**	Figure 3

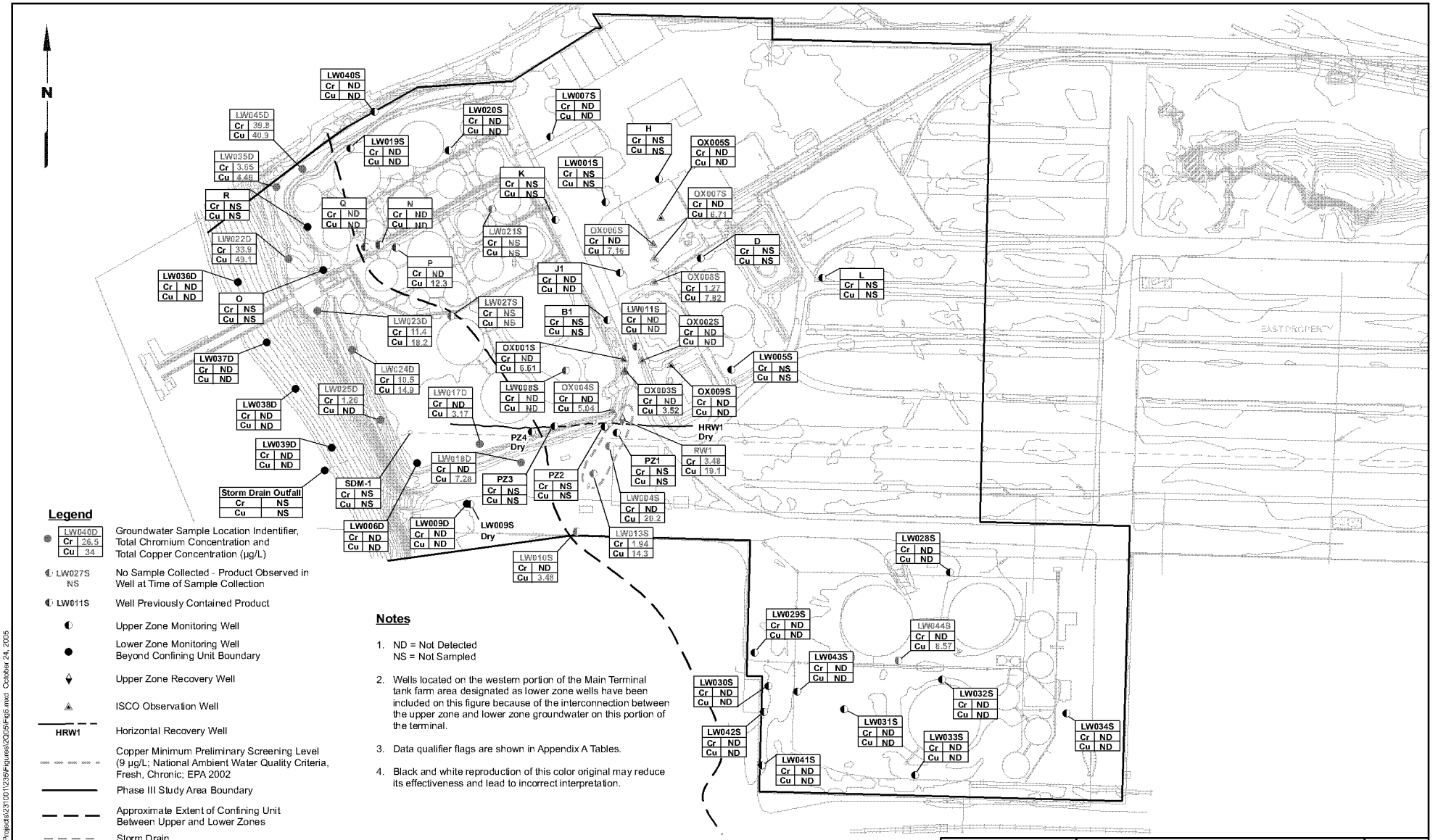
BZTO104(e)021572



BZTO104(e)021573



BZTO104(e)021574



Legend

- LW040D Cr 26.5 Cu 34 — Groundwater Sample Location Indentifier, Total Chromium Concentration and Total Copper Concentration (µg/L)
- LW027S NS — No Sample Collected - Product Observed in Well at Time of Sample Collection
- LW011S — Well Previously Contained Product
- Upper Zone Monitoring Well
- Lower Zone Monitoring Well Beyond Confining Unit Boundary
- Upper Zone Recovery Well
- ISCO Observation Well
- HRW1 — Horizontal Recovery Well
- Copper Minimum Preliminary Screening Level (9 µg/L; National Ambient Water Quality Criteria, Fresh, Chronic; EPA 2002
- Phase III Study Area Boundary
- Approximate Extent of Confining Unit Between Upper and Lower Zones
- Storm Drain
- Manhole

Notes

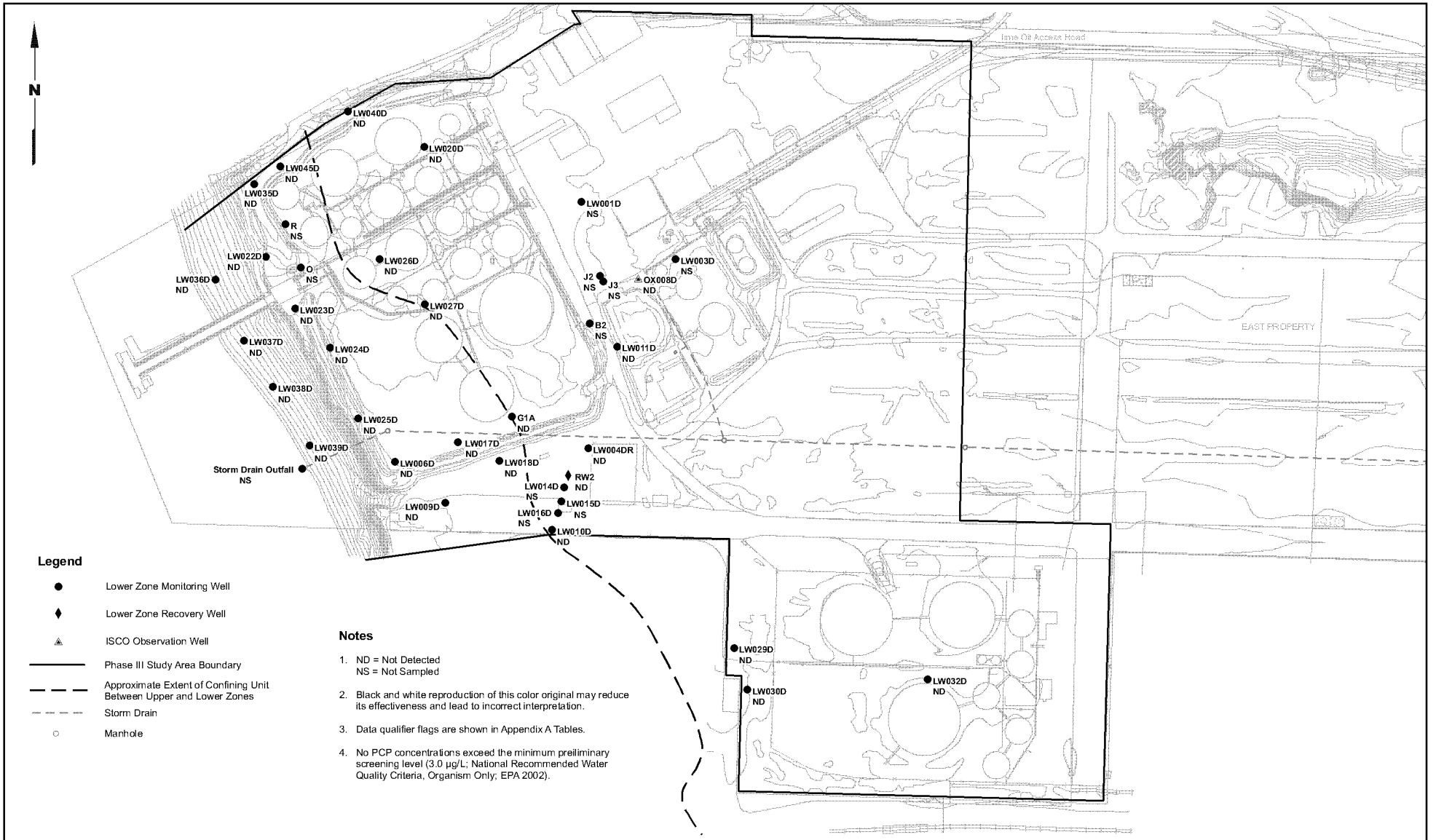
1. ND = Not Detected
   NS = Not Sampled
2. Wells located on the western portion of the Main Terminal tank farm area designated as lower zone wells have been included on this figure because of the interconnection between the upper zone and lower zone groundwater on this portion of the terminal.
3. Data qualifier flags are shown in Appendix A Tables.
4. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**Total Chromium and Copper in GW, Upper Zone and Beyond Confining Unit Boundary - June 2005**	Figure 6

X:\Projects\231001\235\Figures\2005\Fig6.mxd October 24, 2005

BZTO104(e)021575

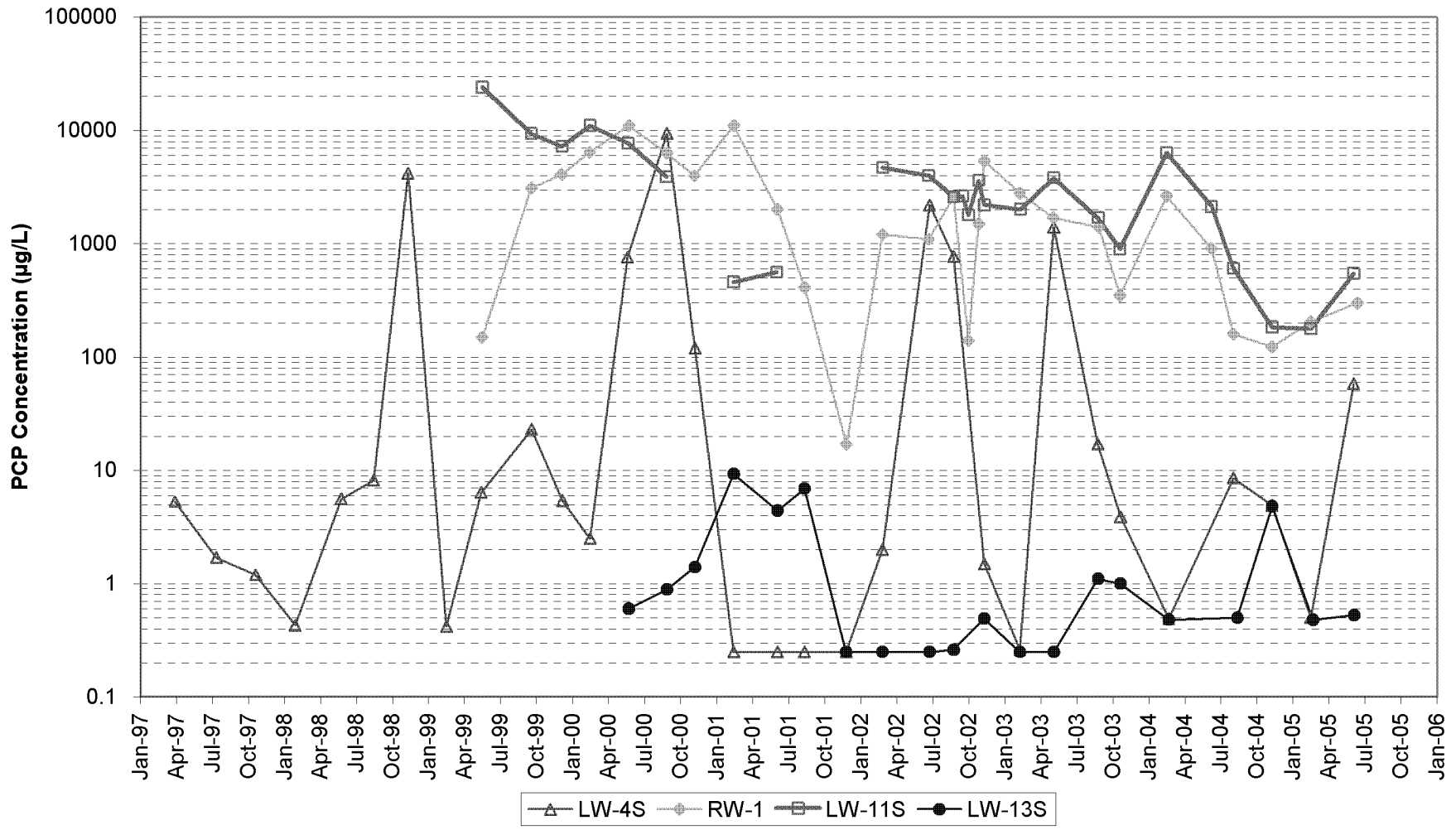


Y:\Projects\23100\235\Figures\2005\Fig7.mxd October 24, 2005

LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**PCP Concentrations in Groundwater, Lower Zone June 2005**	Figure 7

BZTO104(e)021576

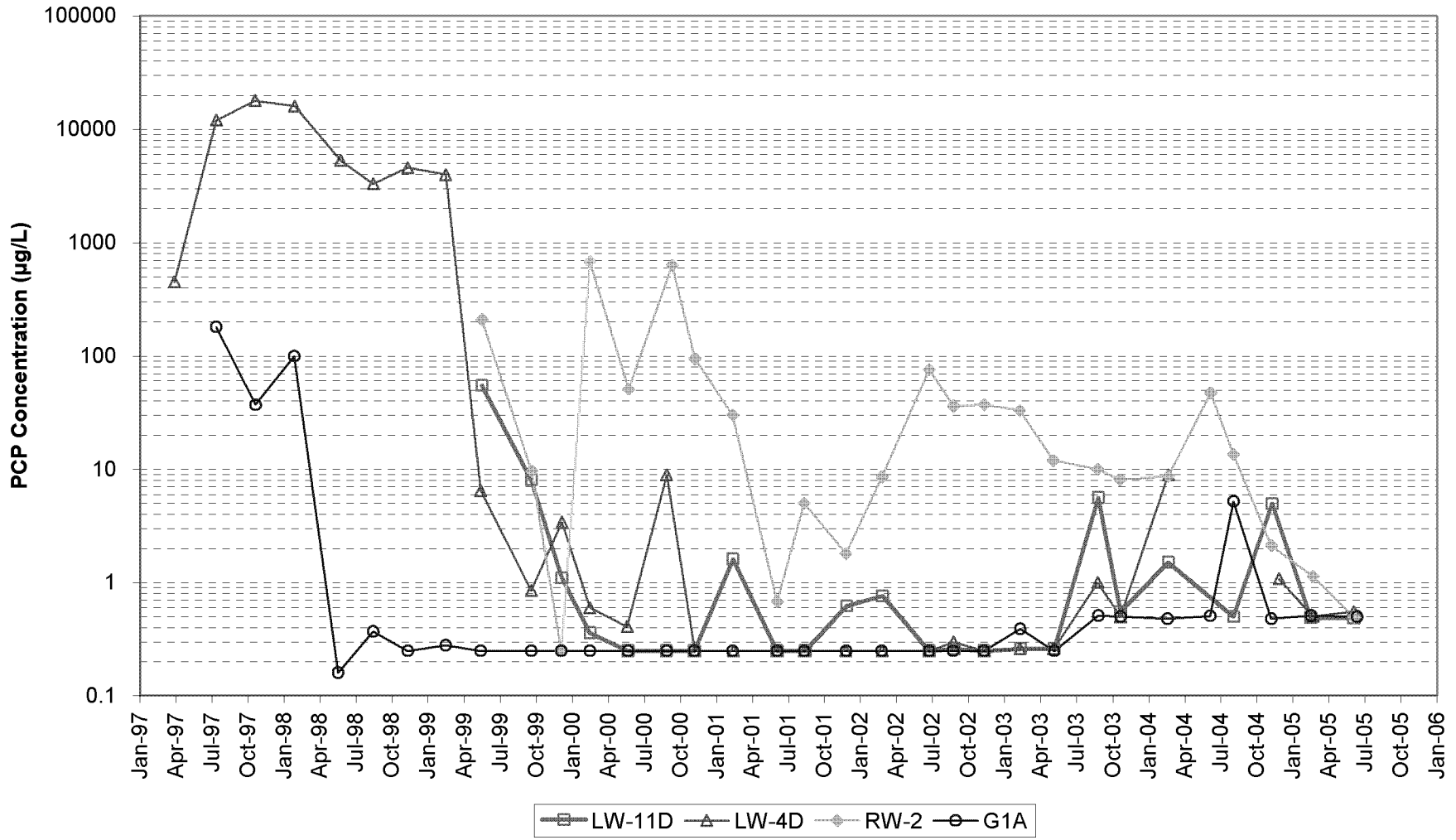


Nondetect values are plotted at the laboratory reporting limit value.

LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**PCP Concentrations, Selected Upper Zone Wells April 1997 – June 2005**	Figure 8

BZTO104(e)021577

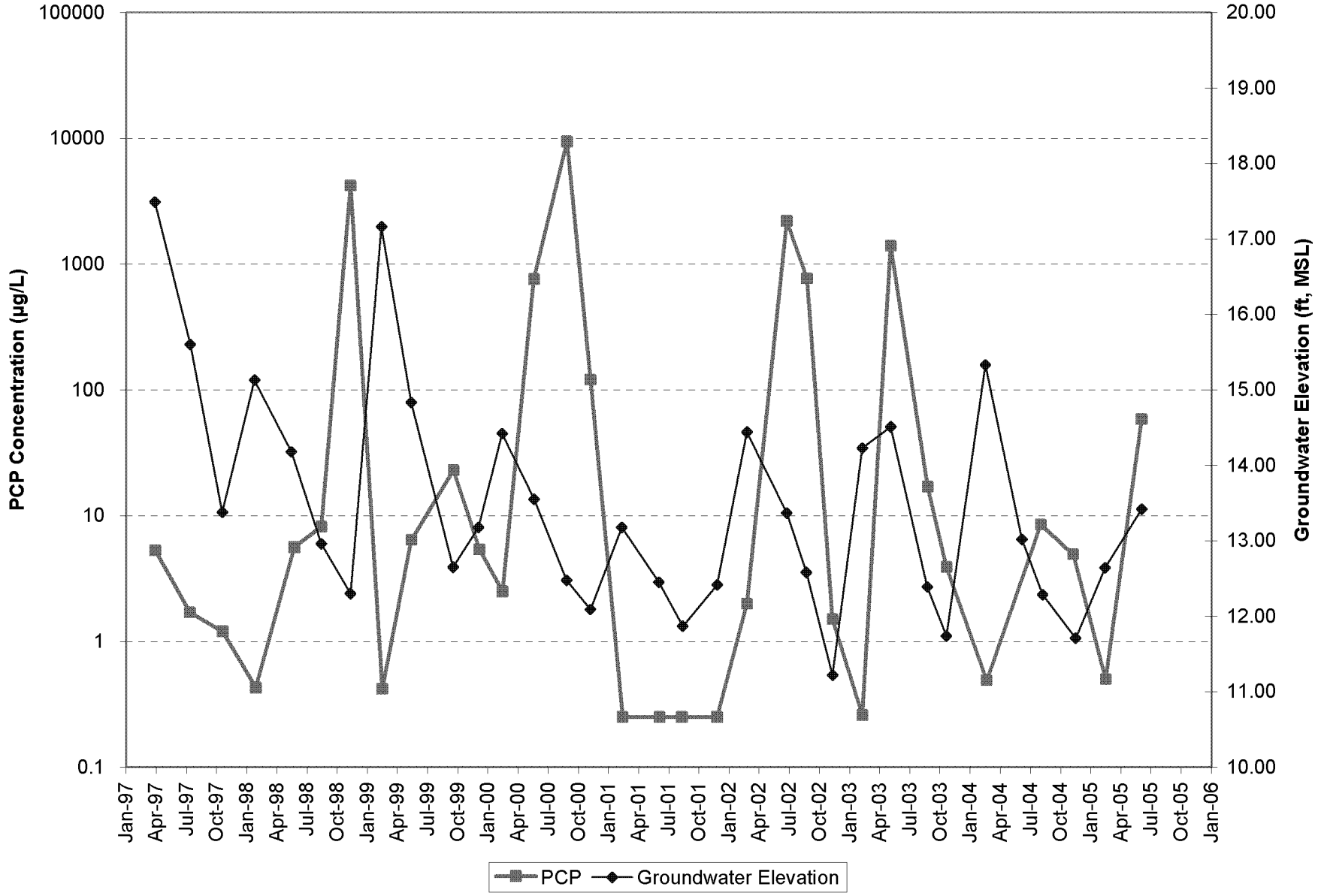


Note: LW-4DR was installed 11/19/04 to replace the damaged LW-4D. Nondetect values are plotted at the laboratory reporting limit value.

LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**PCP Concentrations, Selected Lower Zone Wells April 1997 – February 2005**	Figure 9

BZTO104(e)021578



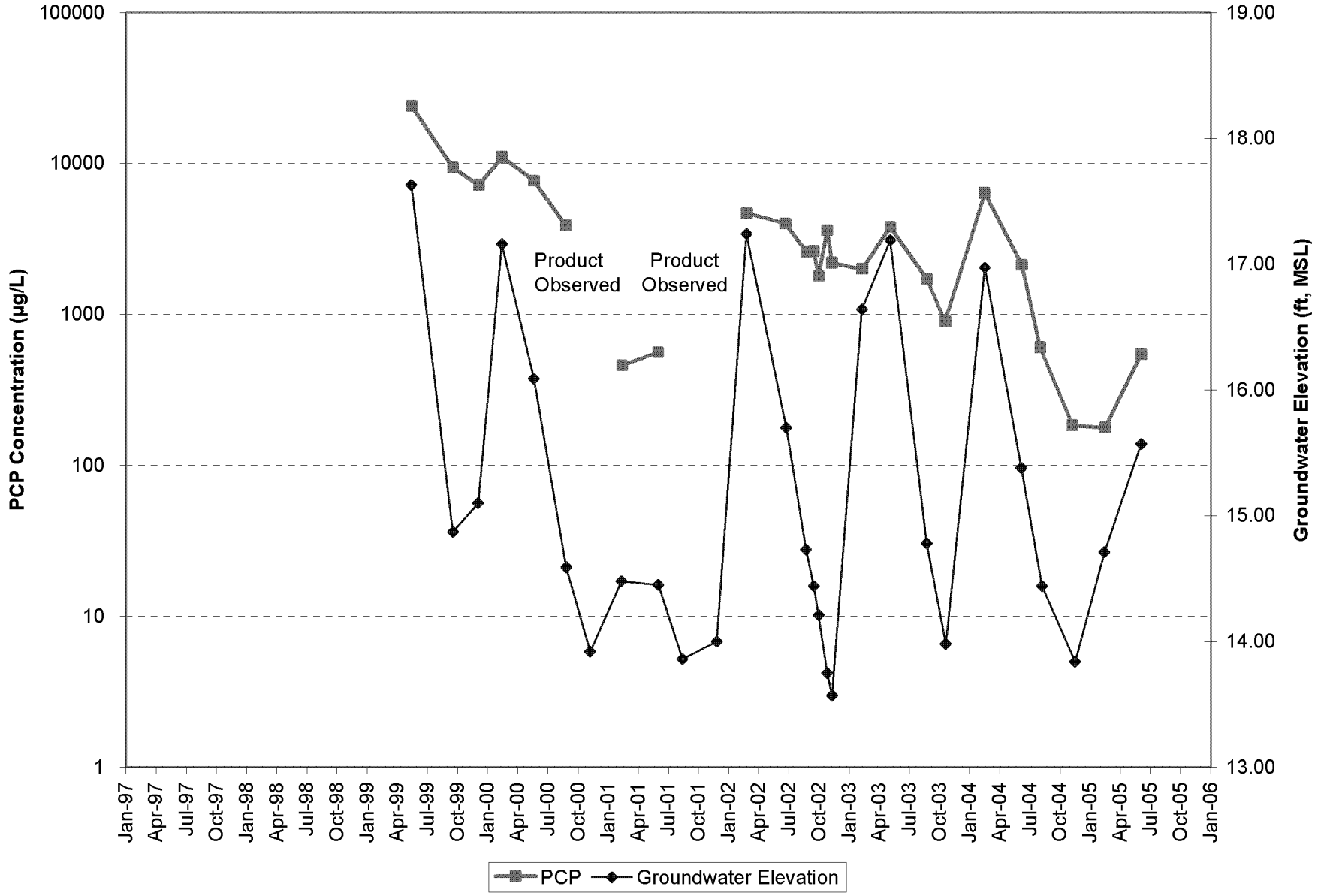
LANDAU ASSOCIATES

Time Oil NW Terminal
Portland, Oregon

PCP Concentrations and Groundwater Elevations, LW-4S
April 1997 – June 2005

Figure
10

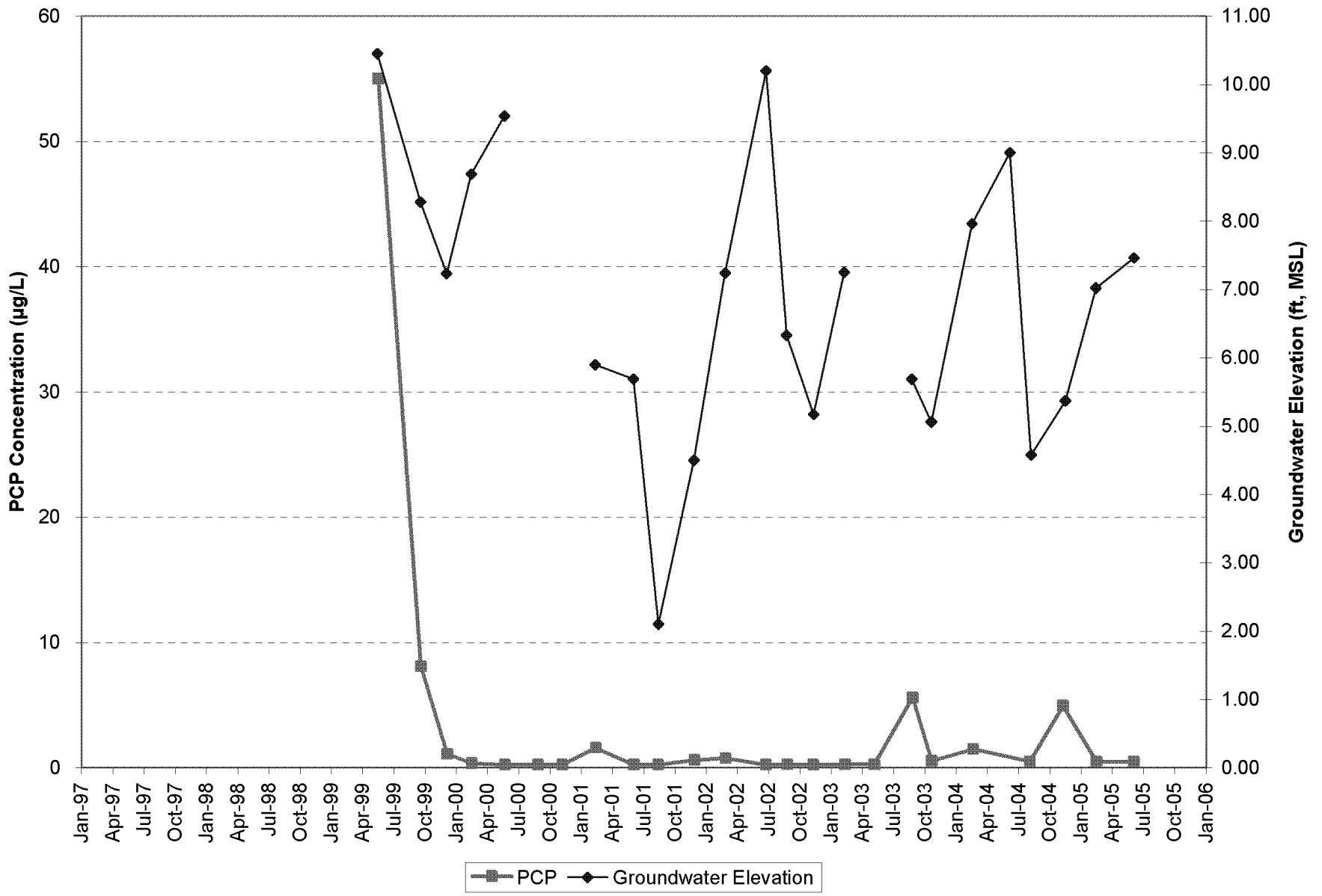
BZTO104(e)021579



LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**PCP Concentrations and Groundwater Elevations, LW-11S April 1997 – June 2005**	Figure 11

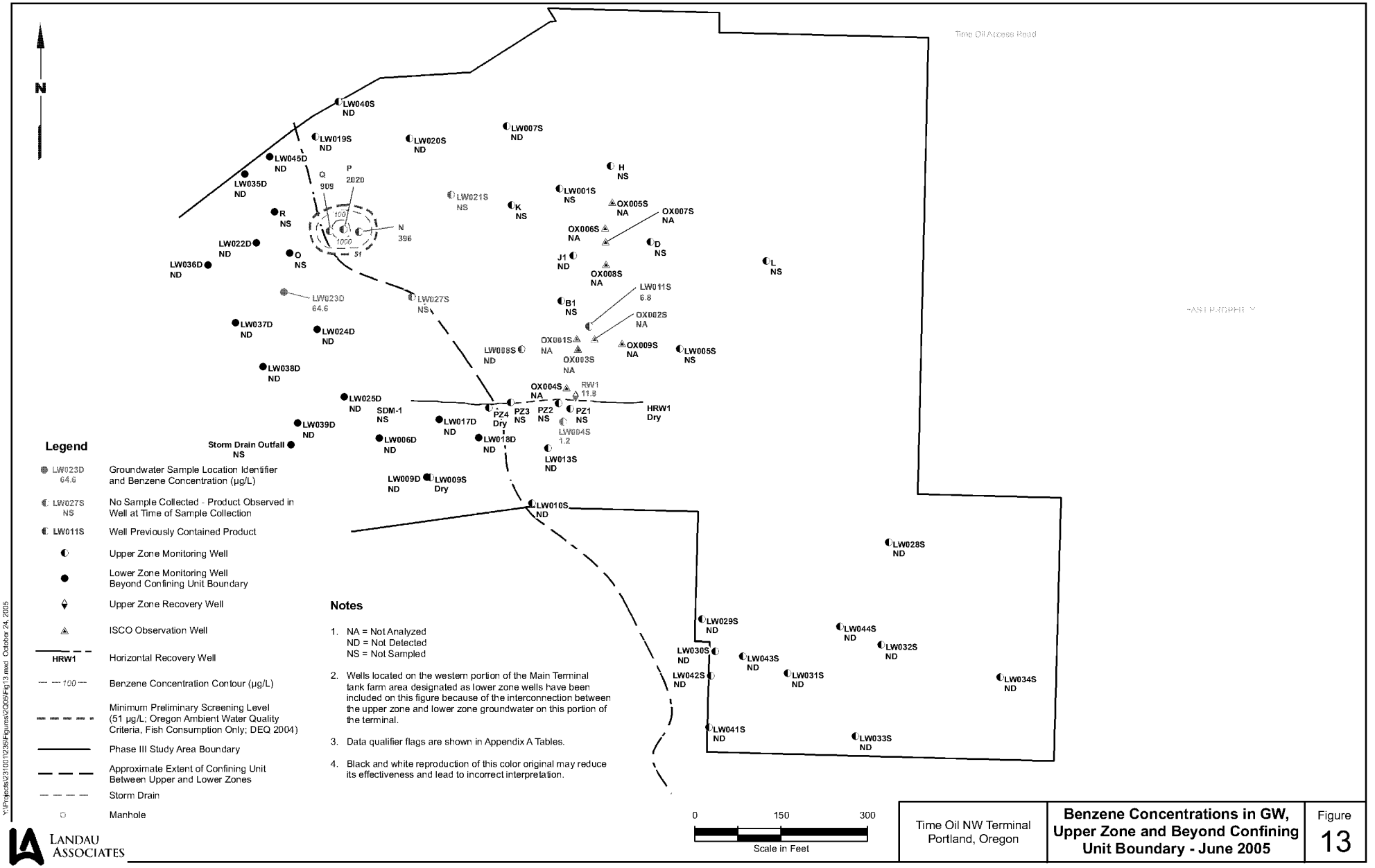
BZTO104(e)021580



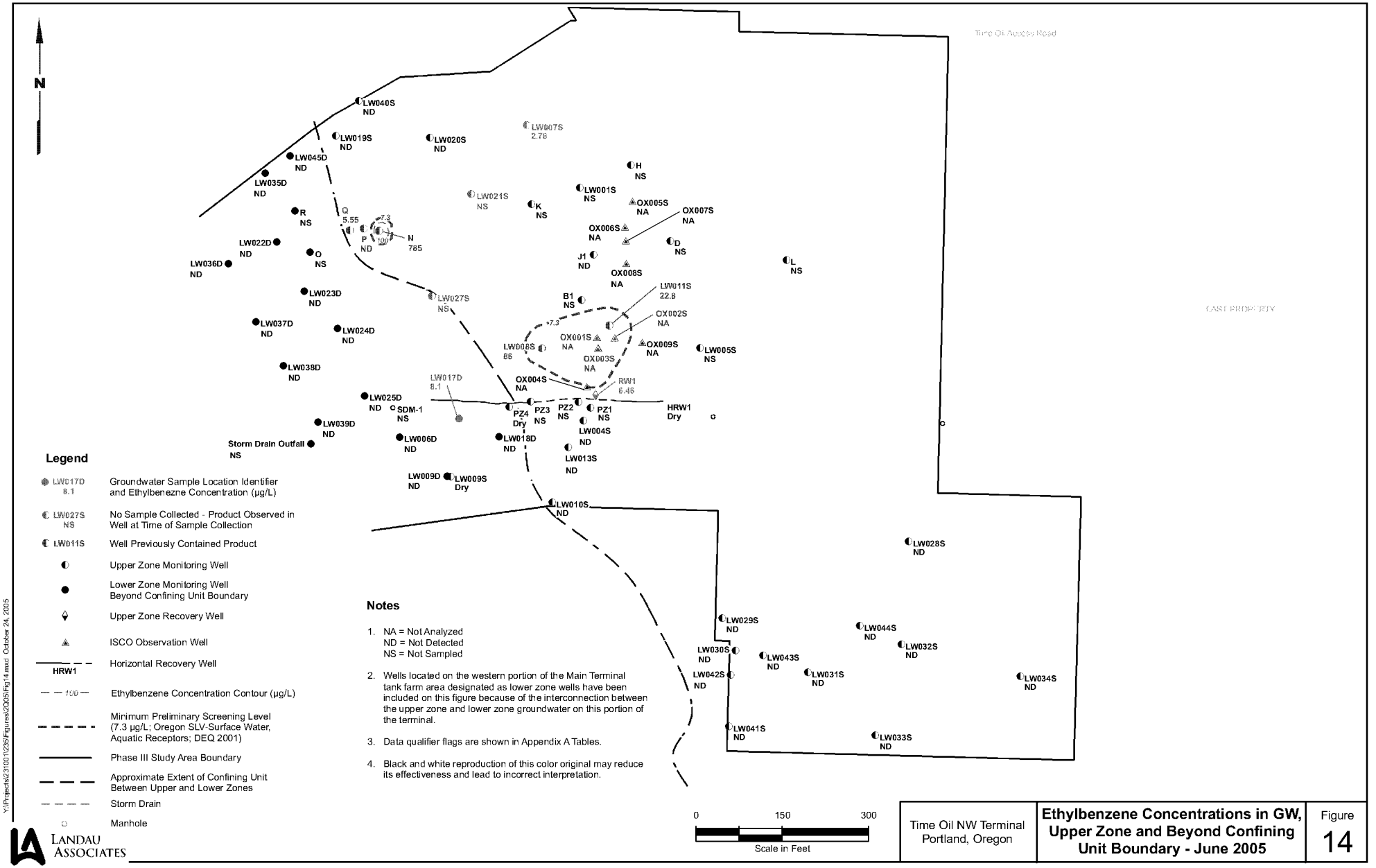
LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**PCP Concentrations, Groundwater Elevations, and River Stage, LW-11D April 1997 – June 2005**	Figure 12

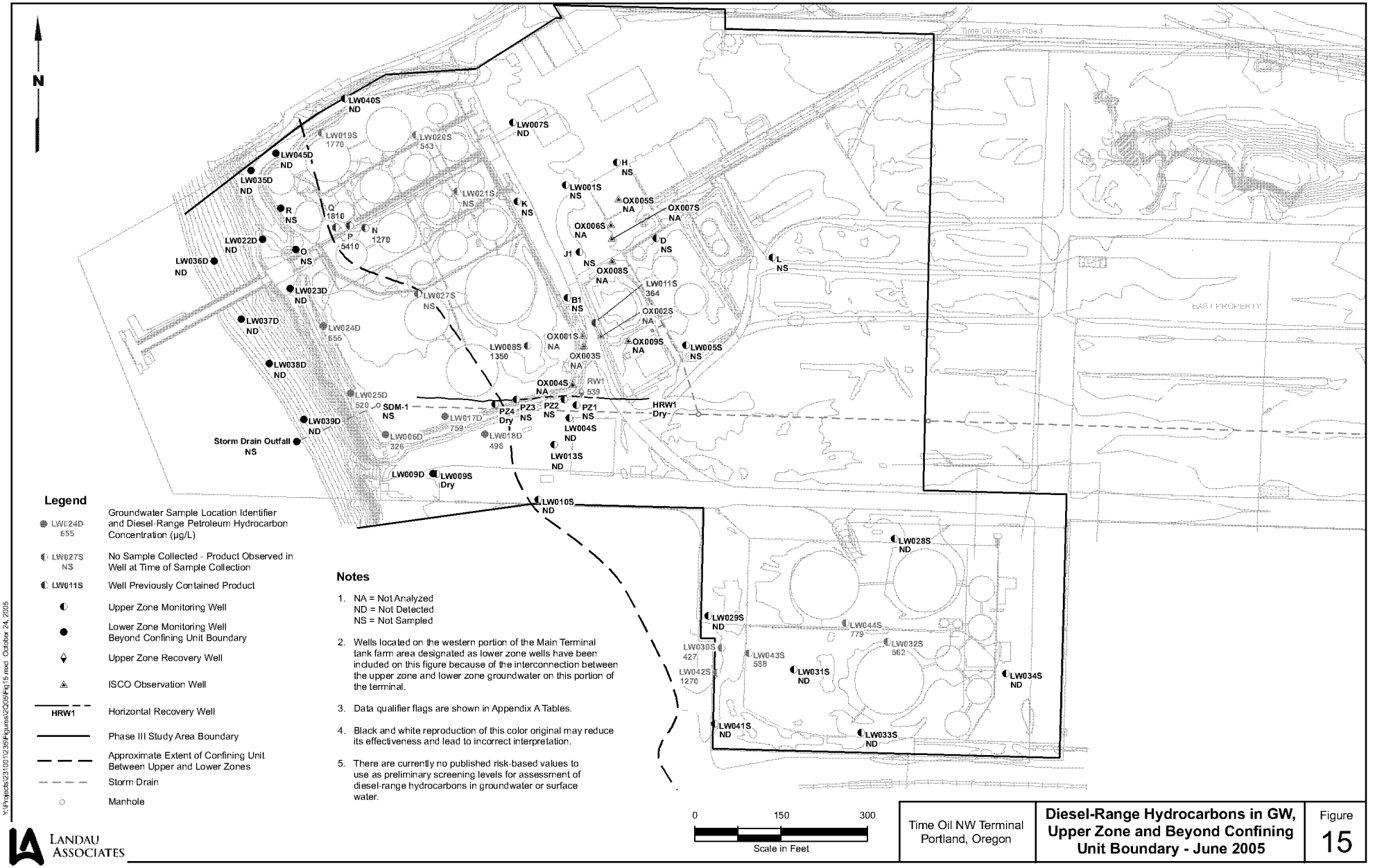
BZTO104(e)021581



BZTO104(e)021582



BZTO104(e)021583



Legend

- LW024D 655 — Groundwater Sample Location Identifier and Diesel-Range Petroleum Hydrocarbon Concentration (µg/L)
- LW027S NS — No Sample Collected - Product Observed in Well at Time of Sample Collection
- LW011S — Well Previously Contained Product
- Upper Zone Monitoring Well
- Lower Zone Monitoring Well Beyond Confining Unit Boundary
- Upper Zone Recovery Well
- ISCO Observation Well
- HRW1 — Horizontal Recovery Well
- Phase III Study Area Boundary
- Approximate Extent of Confining Unit Between Upper and Lower Zones
- Storm Drain
- Manhole

Notes

1. NA = Not Analyzed
   ND = Not Detected
   NS = Not Sampled
2. Wells located on the western portion of the Main Terminal tank farm area designated as lower zone wells have been included on this figure because of the interconnection between the upper zone and lower zone groundwater on this portion of the terminal.
3. Data qualifier flags are shown in Appendix A Tables.
4. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.
5. There are currently no published risk-based values to use as preliminary screening levels for assessment of diesel-range hydrocarbons in groundwater or surface water.

0 150 300
Scale in Feet

LANDAU ASSOCIATES

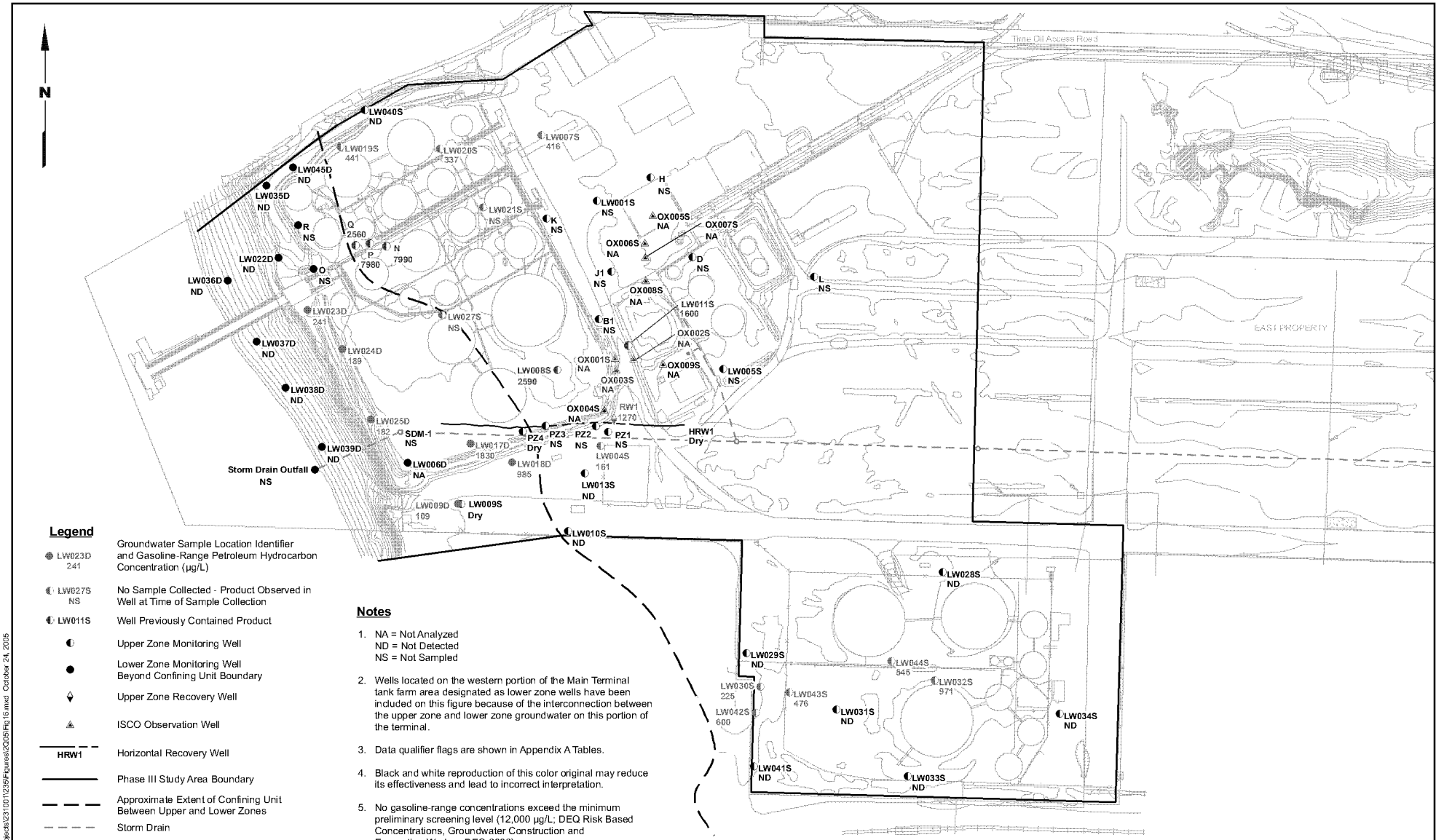
Time Oil NW Terminal
Portland, Oregon

Diesel-Range Hydrocarbons in GW, Upper Zone and Beyond Confining Unit Boundary - June 2005

Figure 15

Y:\Projects\23100\1236\Figures\2Q05\Fig15.mxd October 24, 2005

BZTO104(e)021584



Legend

LW023D 241	Groundwater Sample Location Identifier and Gasoline-Range Petroleum Hydrocarbon Concentration (µg/L)
LW027S NS	No Sample Collected - Product Observed in Well at Time of Sample Collection
LW011S	Well Previously Contained Product
	Upper Zone Monitoring Well
	Lower Zone Monitoring Well Beyond Confining Unit Boundary
	Upper Zone Recovery Well
	ISCO Observation Well
HRW1	Horizontal Recovery Well
	Phase III Study Area Boundary
	Approximate Extent of Confining Unit Between Upper and Lower Zones
	Storm Drain
	Manhole

Notes

1. NA = Not Analyzed
   ND = Not Detected
   NS = Not Sampled
2. Wells located on the western portion of the Main Terminal tank farm area designated as lower zone wells have been included on this figure because of the interconnection between the upper zone and lower zone groundwater on this portion of the terminal.
3. Data qualifier flags are shown in Appendix A Tables.
4. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.
5. No gasoline-range concentrations exceed the minimum preliminary screening level (12,000 µg/L; DEQ Risk Based Concentrations, Groundwater Construction and Excavation Worker; DEQ 2003).

Y:\Projects\23100\1235\Figures\2005\Fig16.mxd October 24, 2005

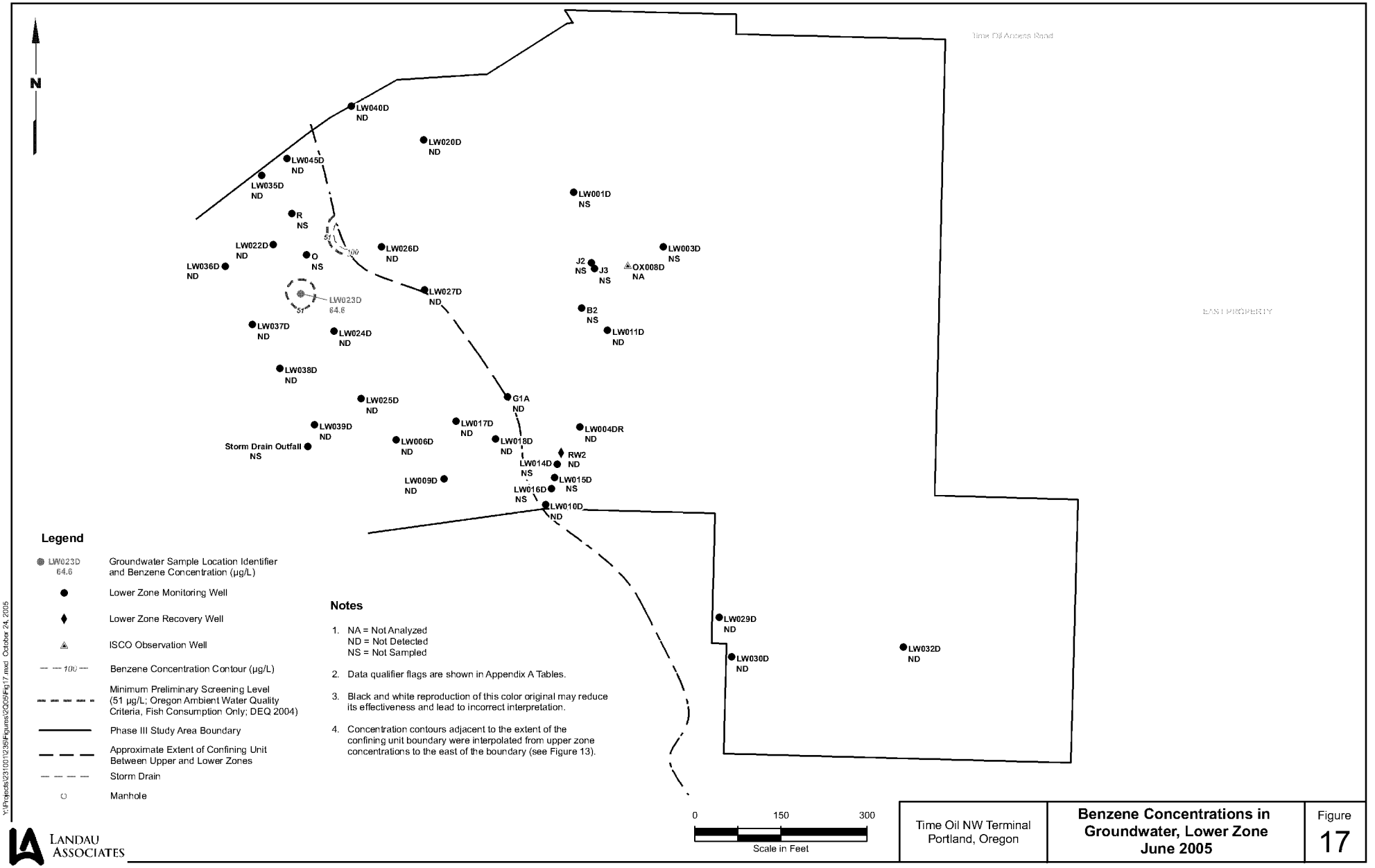
LANDAU ASSOCIATES

Time Oil NW Terminal
Portland, Oregon

Gasoline-Range Hydrocarbons in GW, Upper Zone and Beyond Confining Unit Boundary - June 2005

Figure 16

BZTO104(e)021585

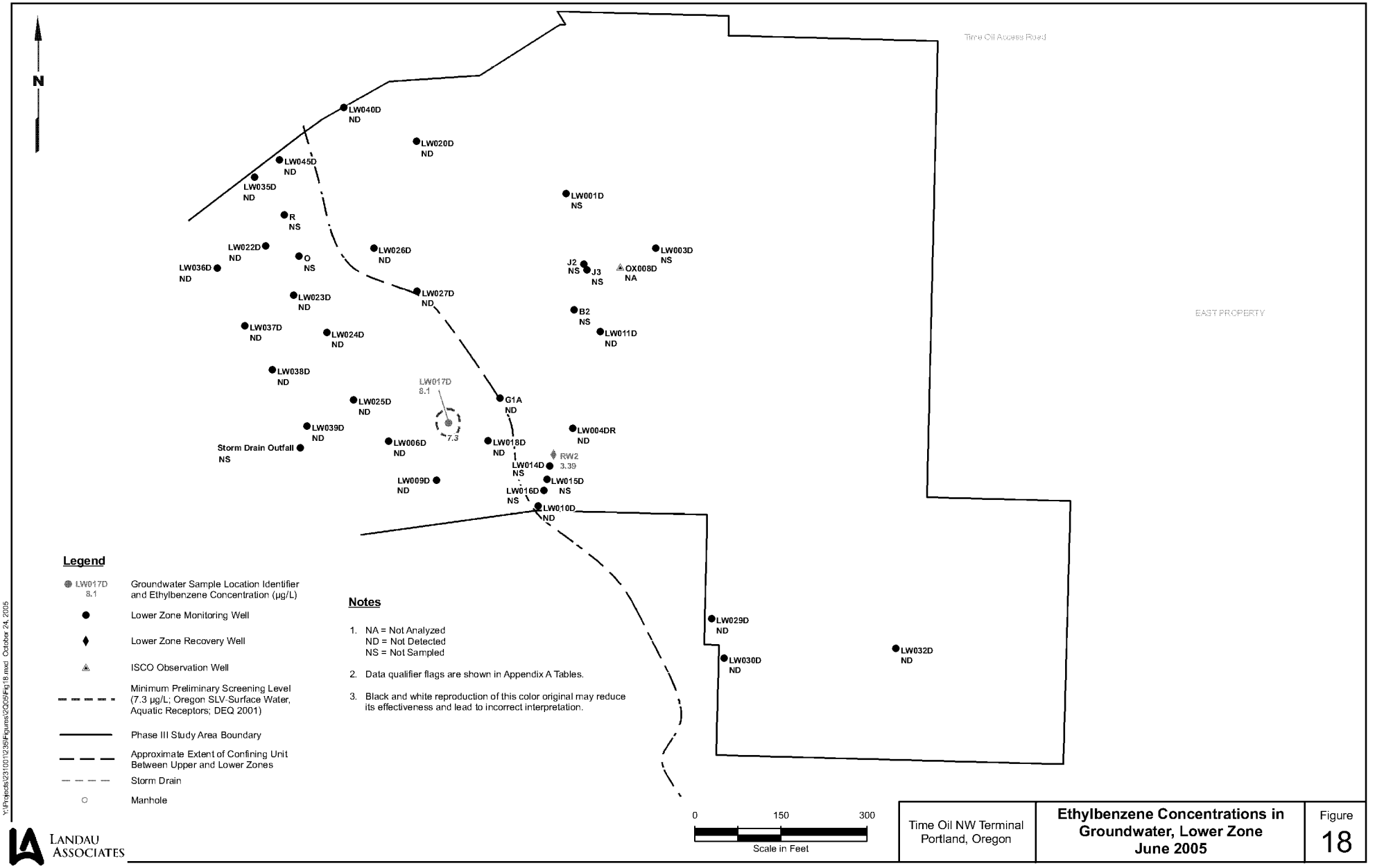


Y:\Projects\23100\1236\Figures\2Q05\Fig17.mxd October 24, 2005

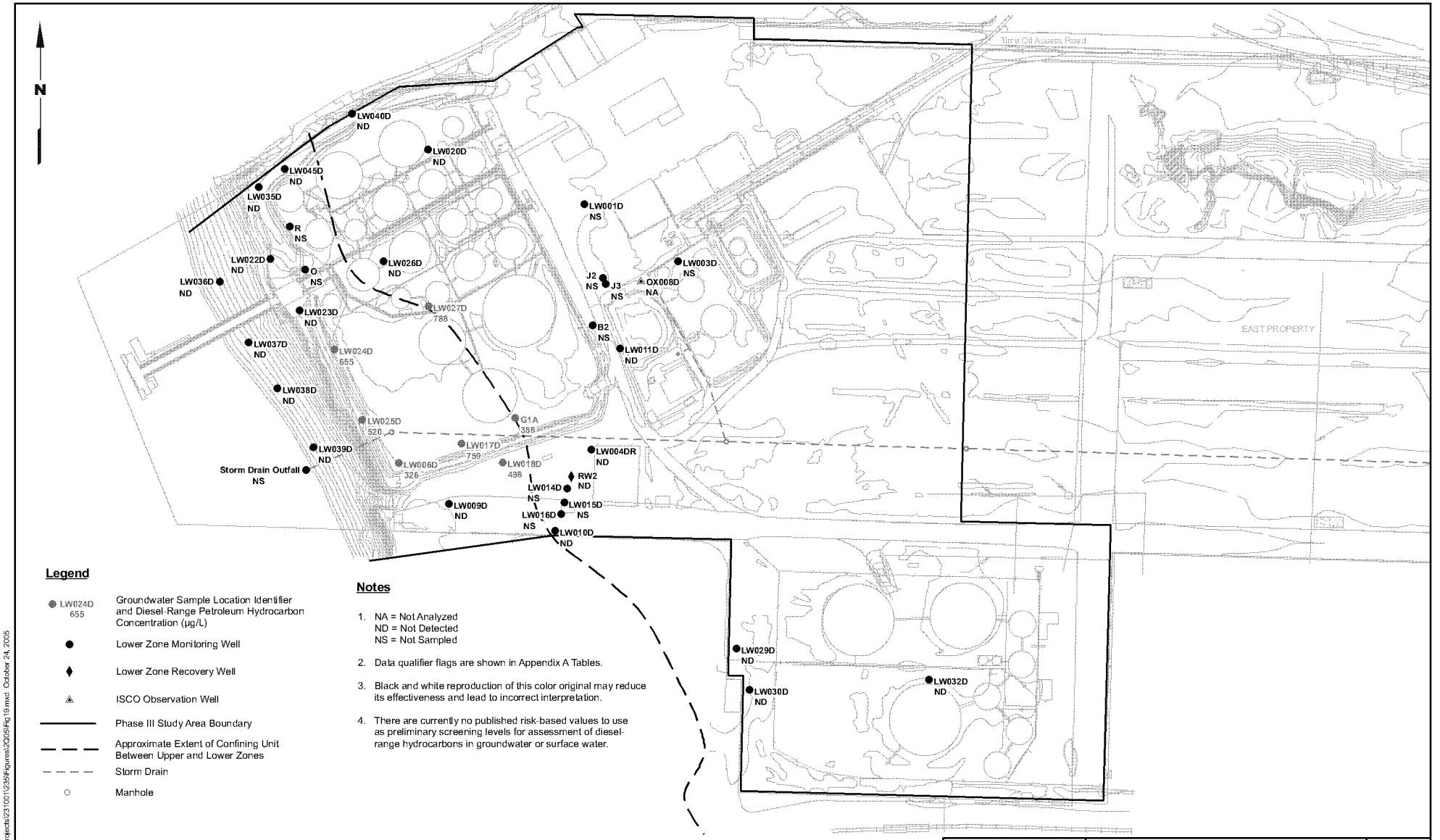
LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**Benzene Concentrations in Groundwater, Lower Zone June 2005**	Figure 17

BZTO104(e)021586



BZTO104(e)021587

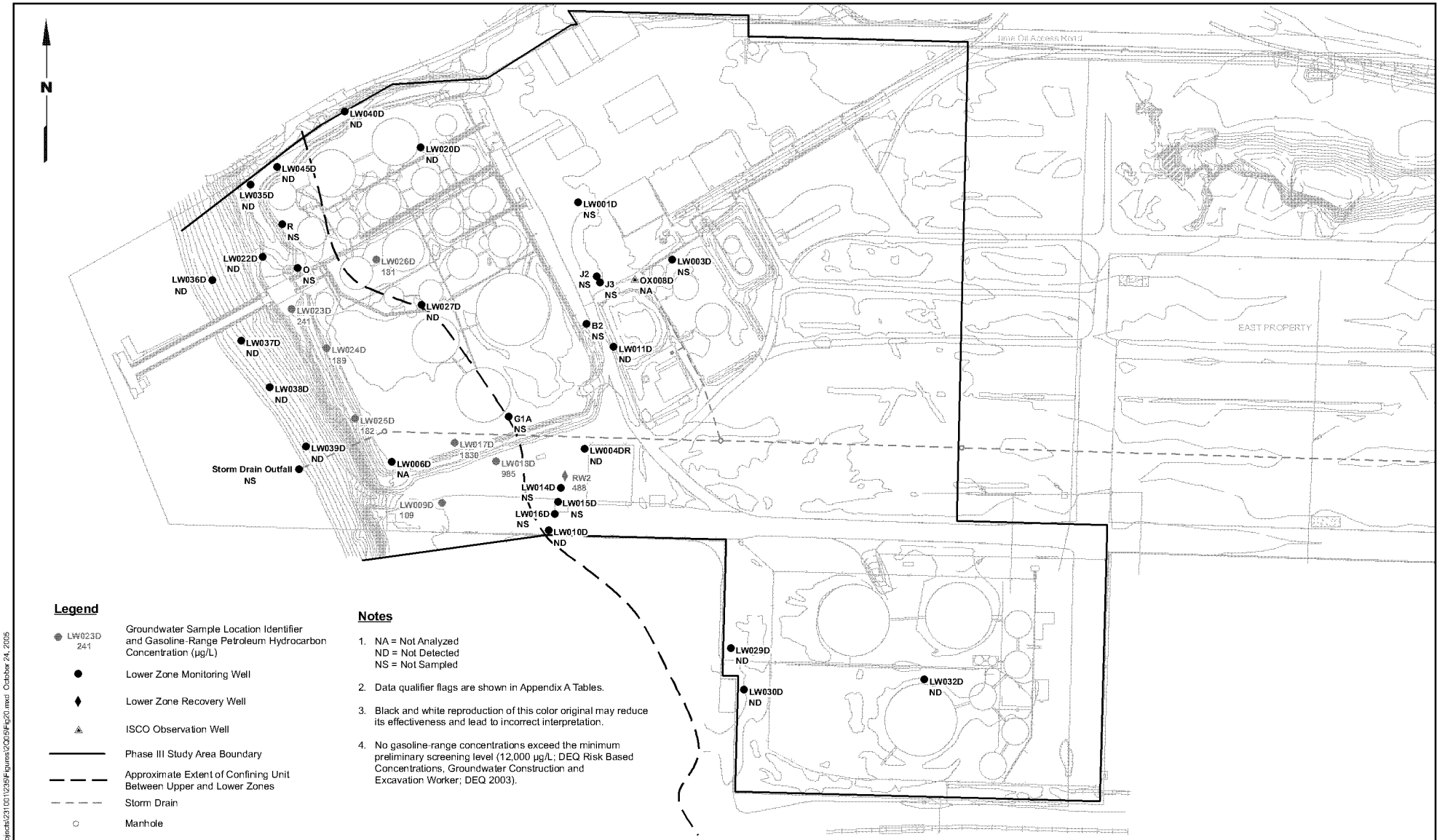


Y:\Projects\2310\1235\Figures\2005\Fig19.mxd October 24, 2005

LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**Diesel-Range Petroleum Hydrocarbons in Groundwater, Lower Zone, June 2005**	Figure 19

BZTO104(e)021588



Y:\Projects\2310\1235\Figures\2005\Fig20.mxd October 24, 2005

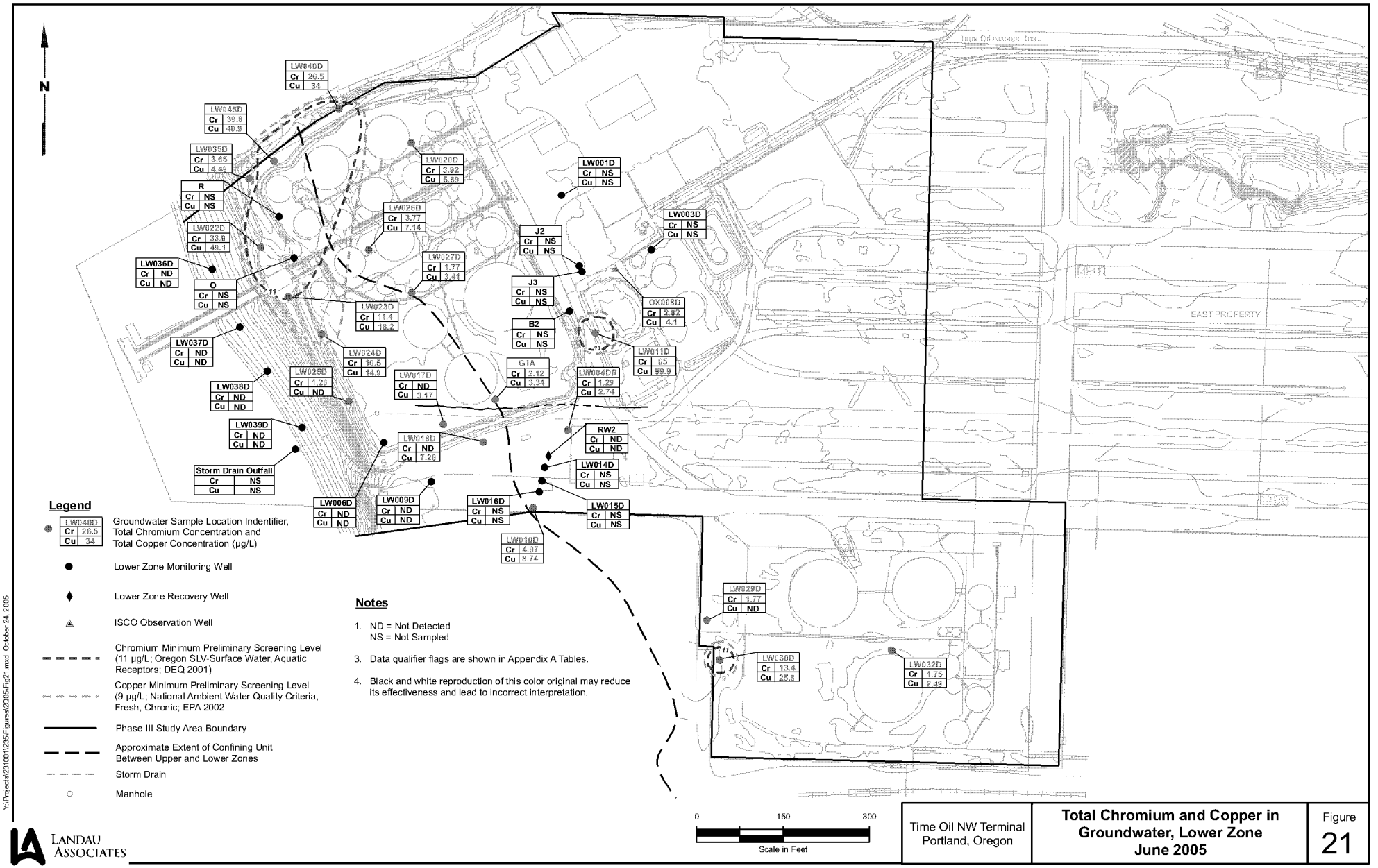
LANDAU ASSOCIATES

Time Oil NW Terminal
Portland, Oregon

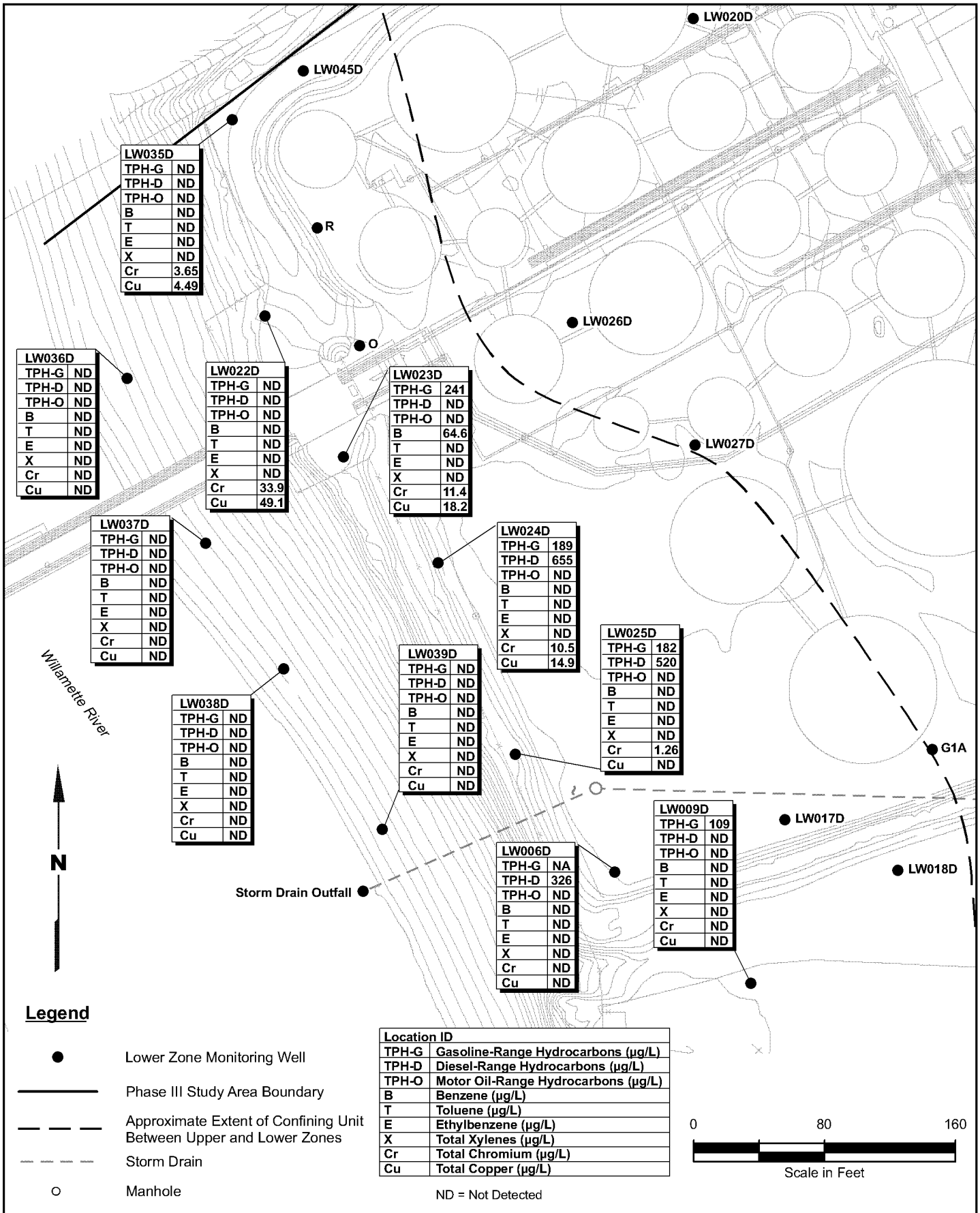
Gasoline-Range Petroleum Hydrocarbons in Groundwater, Lower Zone, June 2005

Figure 20

BZTO104(e)021589



BZT0104(e)021590



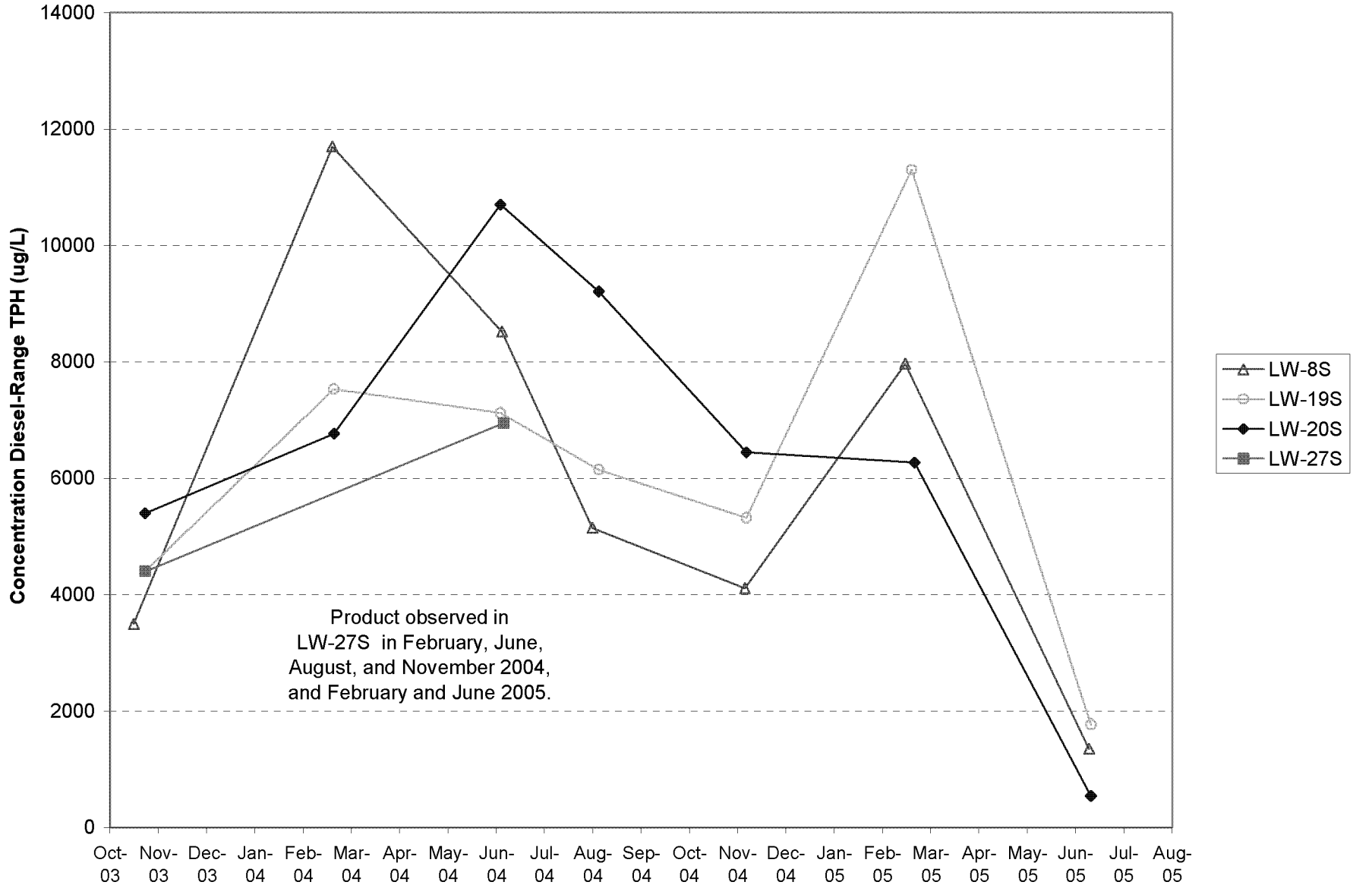
Y:\Projects\231001\235\Figures\2Q05\Fig22.mxd October 24, 2005

LANDAU ASSOCIATES

Time Oil NW Terminal
Portland, Oregon

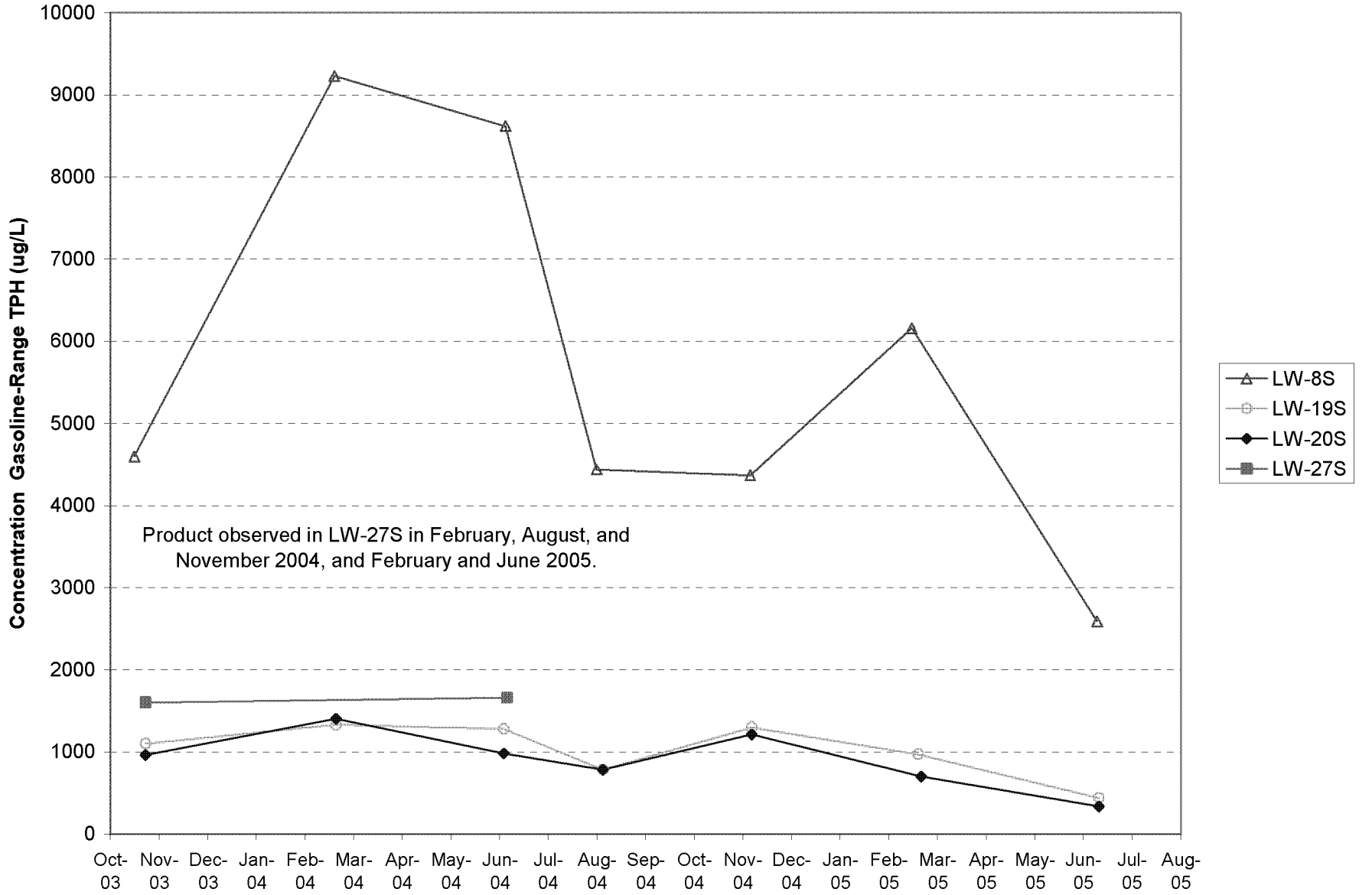
Groundwater Concentrations, Nearshore Wells, Selected Analytes 2nd Quarter 2005

Figure 22



LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**Diesel-Range Hydrocarbons Selected Upper Zone Wells Main Tank Farm Area**	Figure 23

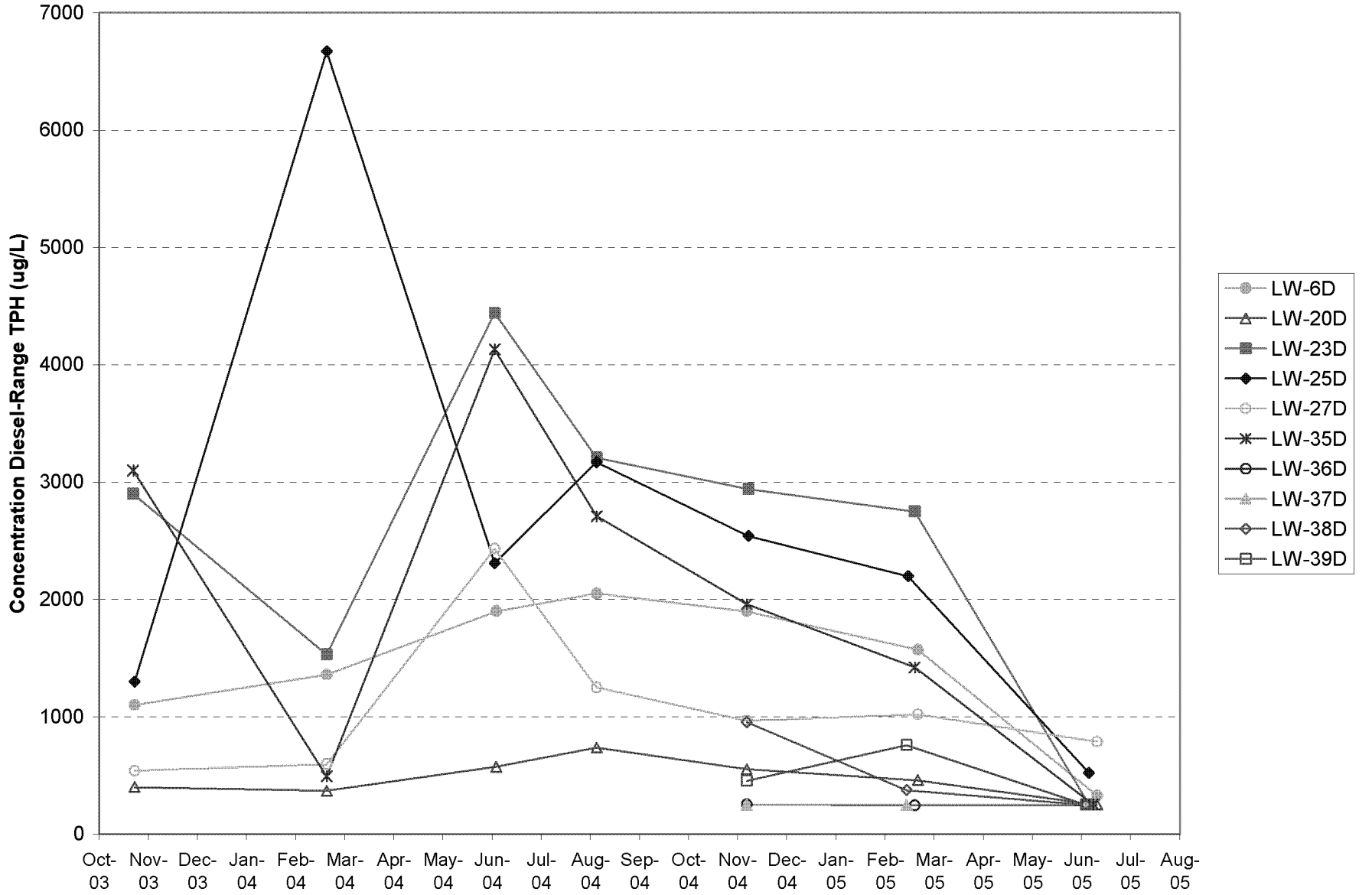


LANDAU ASSOCIATES

Time Oil NW Terminal
Portland, Oregon

Gasoline-Range Hydrocarbons
Selected Upper Zone Wells
Main Tank Farm Area

Figure
24

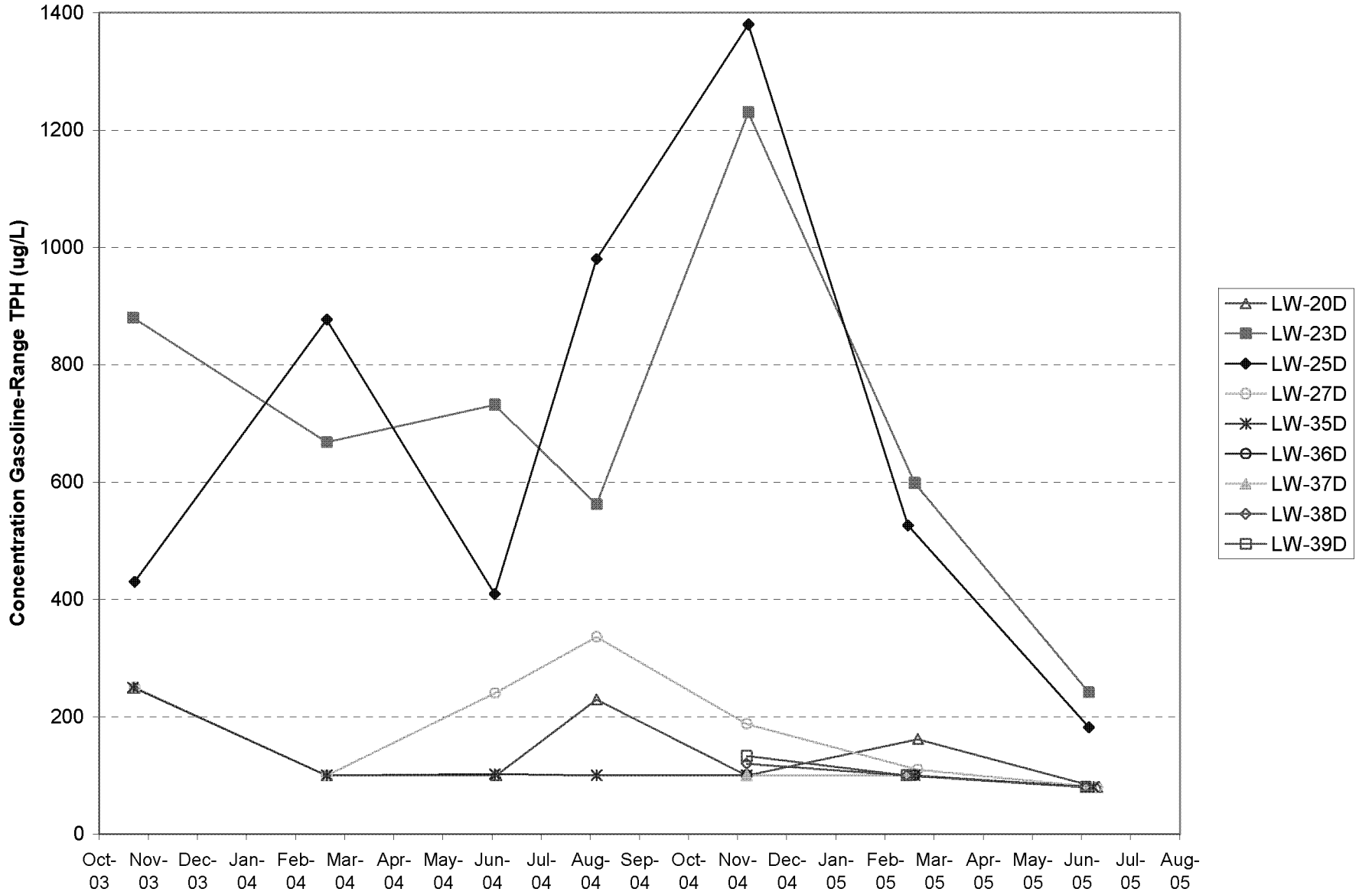


LANDAU ASSOCIATES

Time Oil NW Terminal
Portland, Oregon

Diesel-Range Hydrocarbons
Selected Lower Zone Wells
Main Tank Farm Area

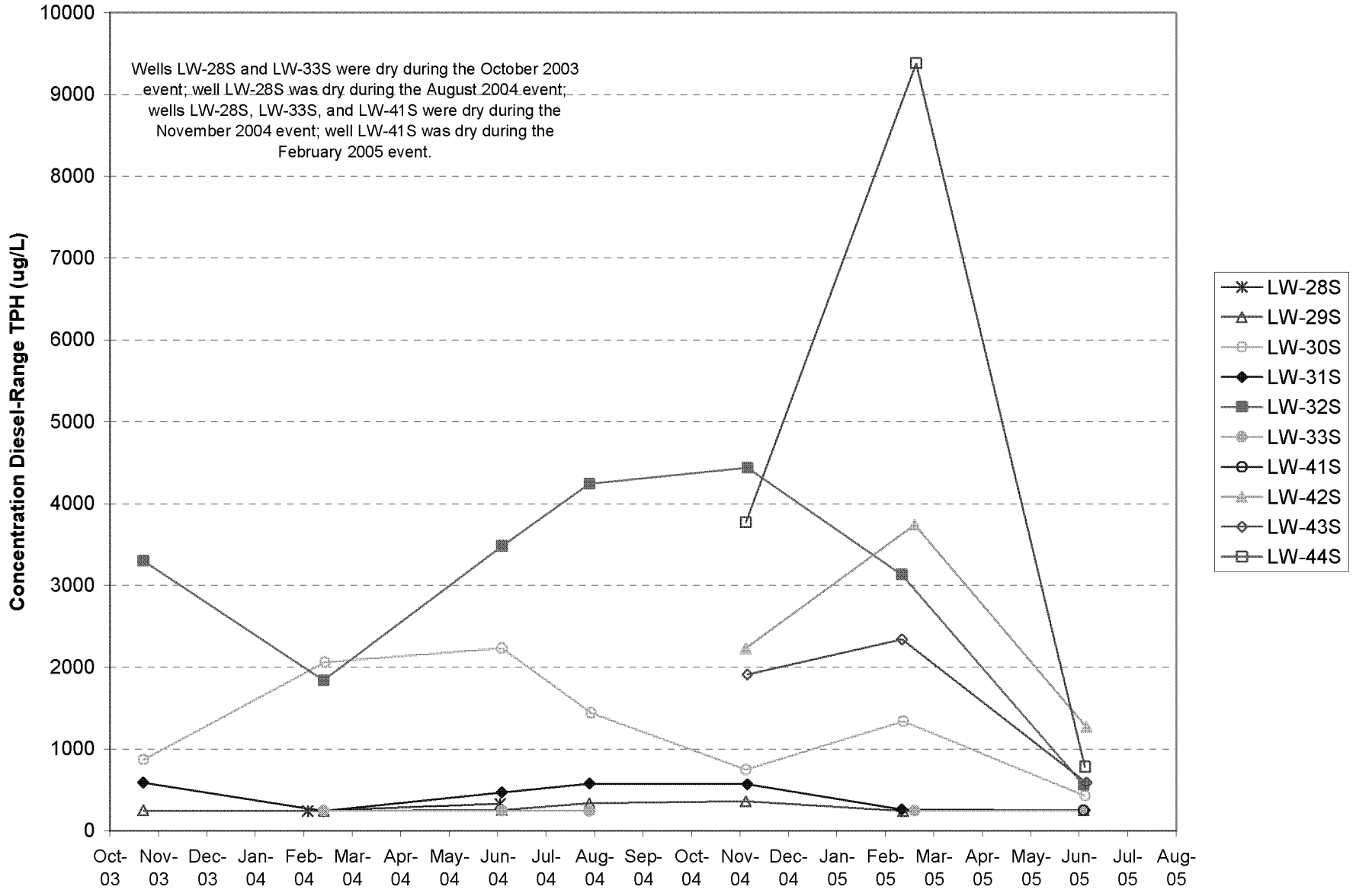
Figure
25



LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**Gasoline-Range Hydrocarbons Selected Lower Zone Wells Main Tank Farm Area**	Figure 26

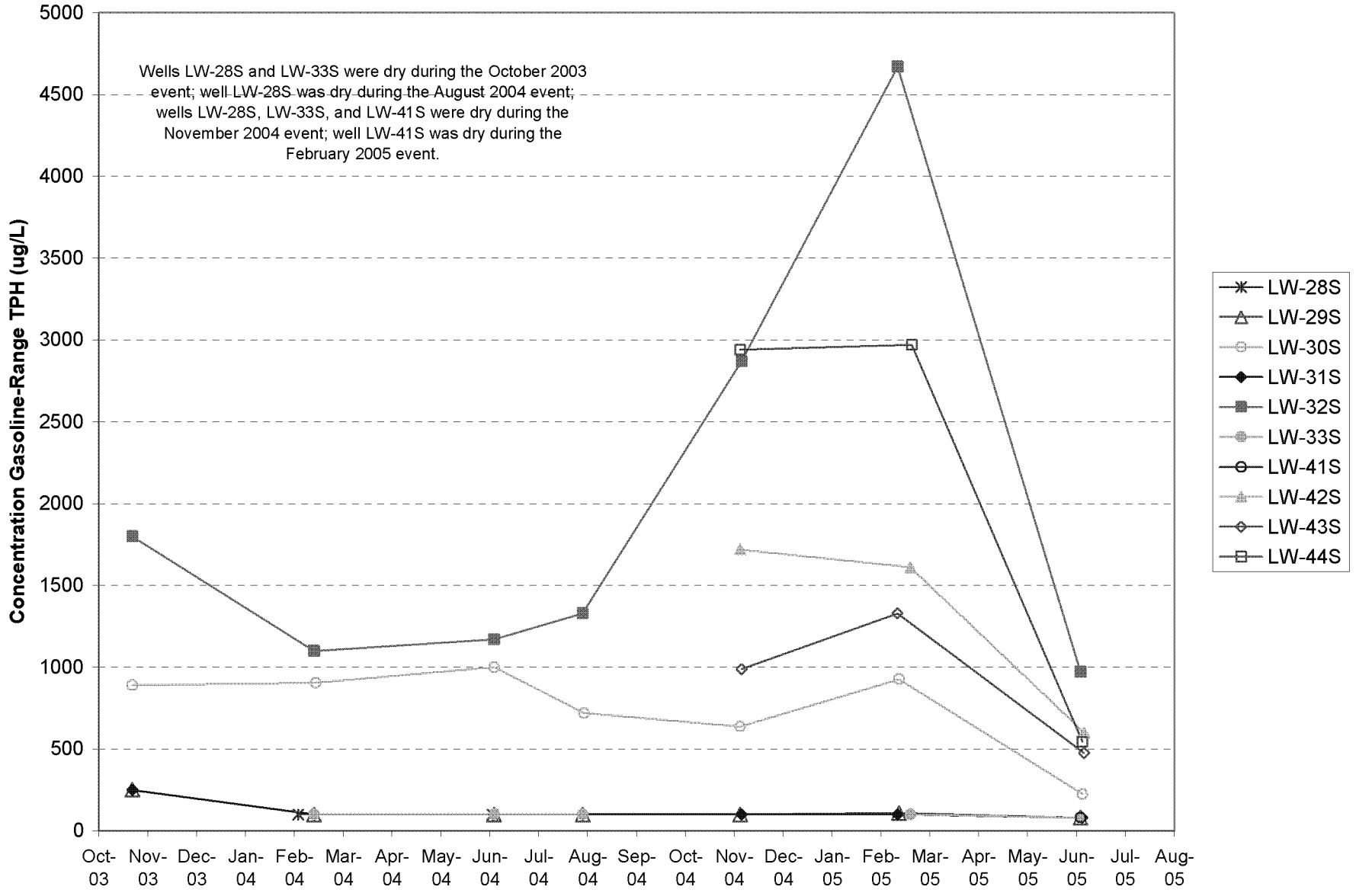
BZTO104(e)021595



LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**Diesel-Range Hydrocarbons Upper Zone Wells Bell Terminal**	Figure 27

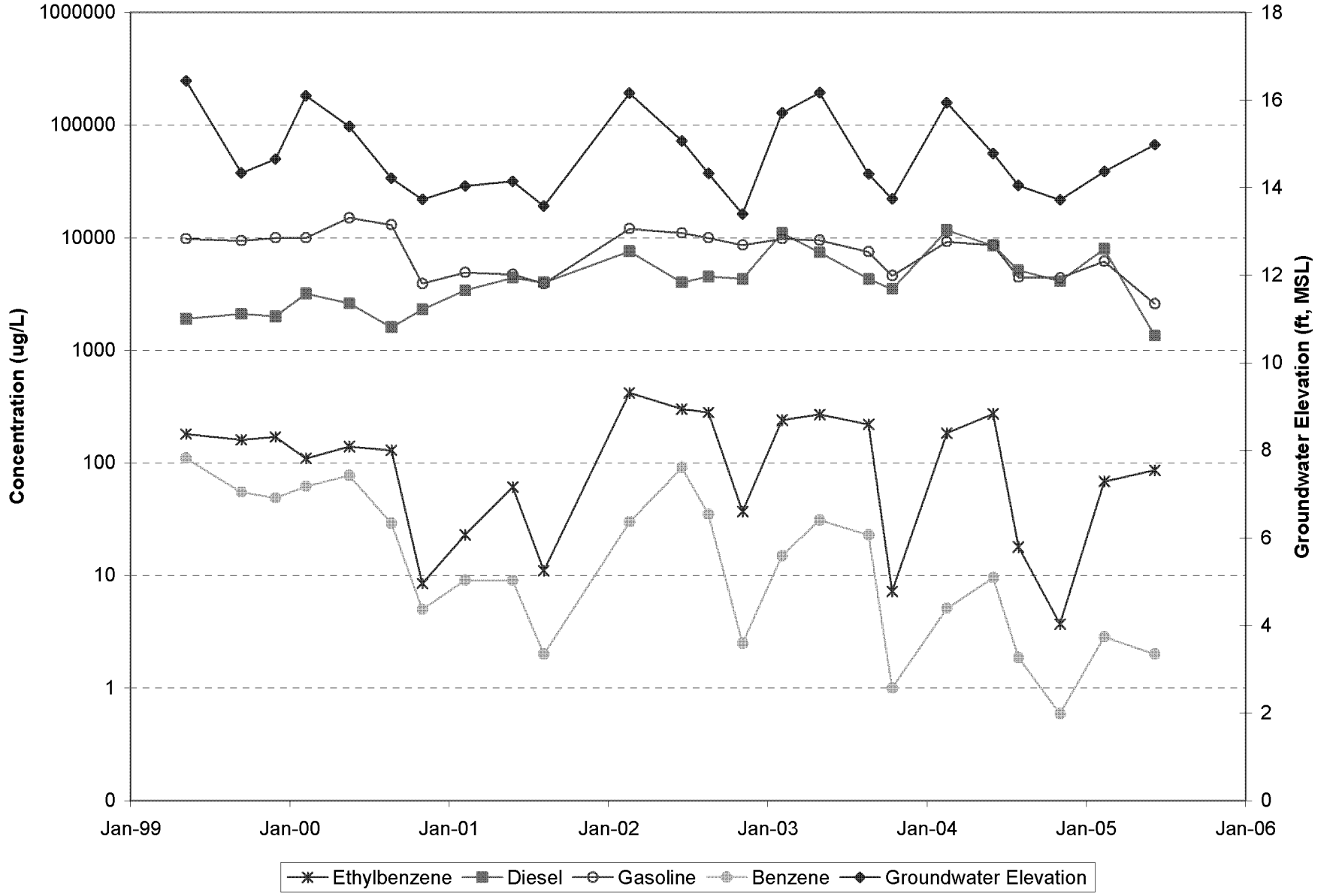
BZTO104(e)021596



LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**Gasoline-Range Hydrocarbons Upper Zone Wells Bell Terminal**	Figure 28

BZTO104(e)021597



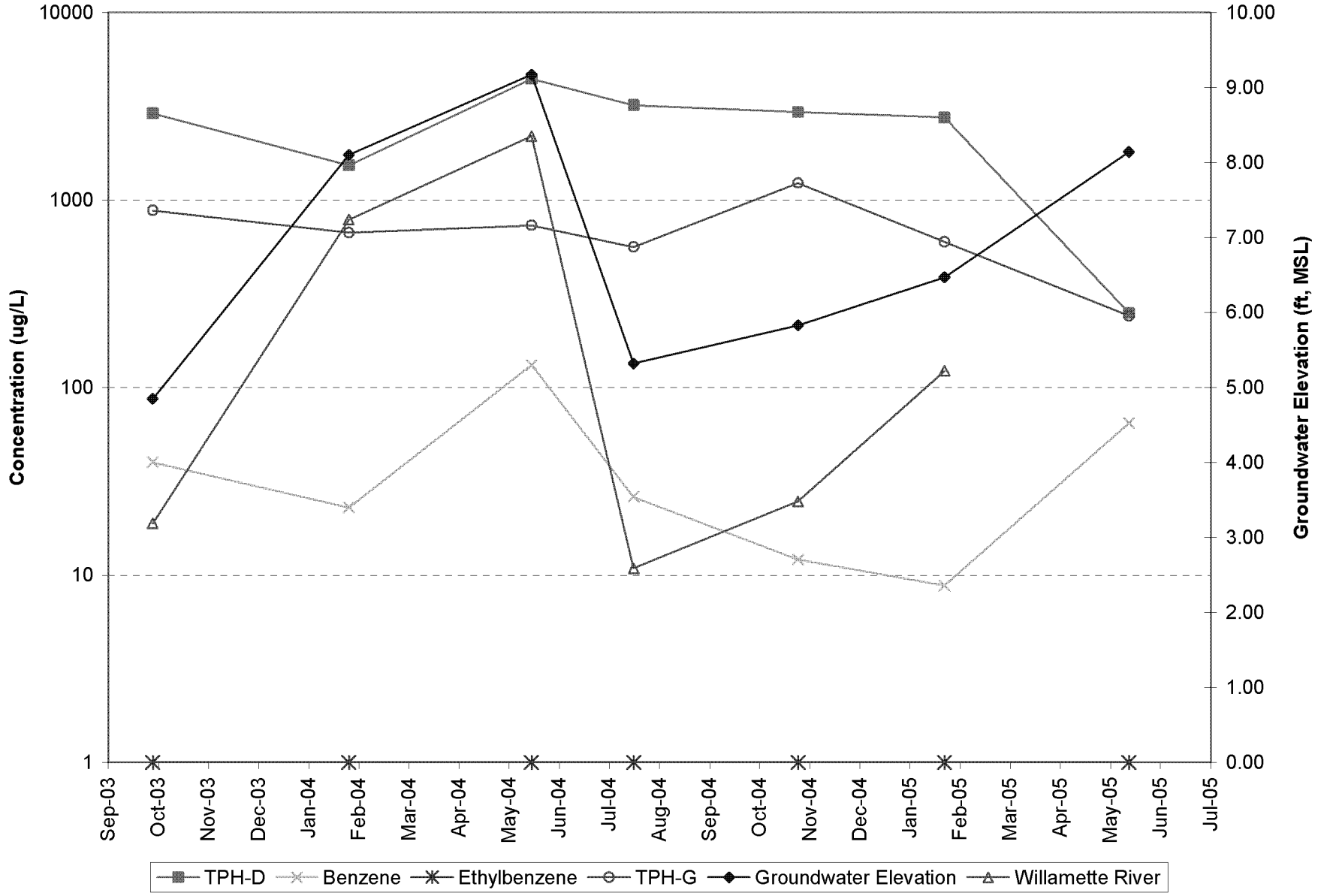
LANDAU ASSOCIATES

Time Oil NW Terminal
Portland, Oregon

Selected Constituents
Well LW-8S, Upper Zone
Main Tank Farm Area

Figure
29

BZTO104(e)021598



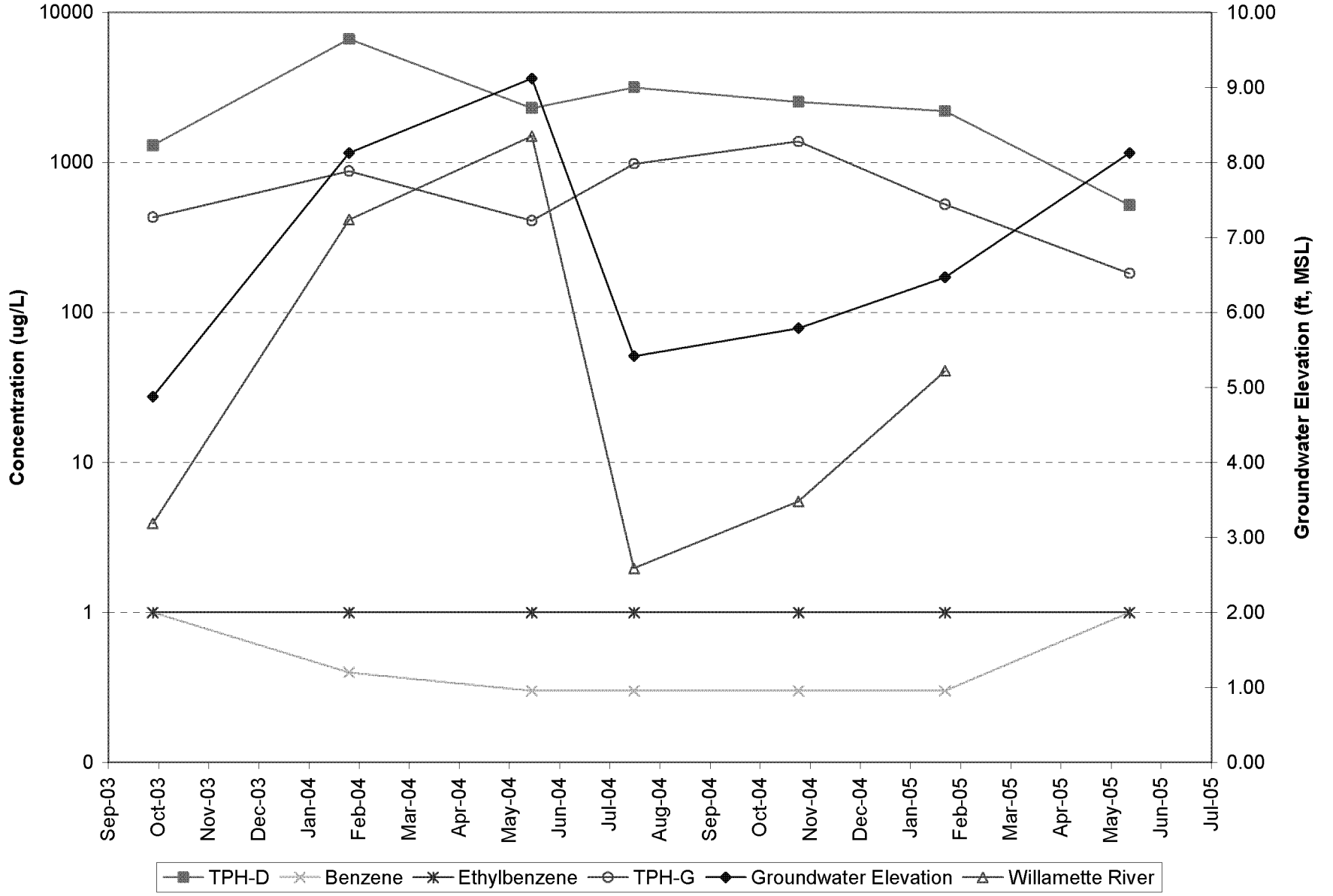
LANDAU ASSOCIATES

Time Oil NW Terminal
Portland, Oregon

Selected Constituents, Well LW-23D
Lower Zone
Main Tank Farm Area

Figure
30

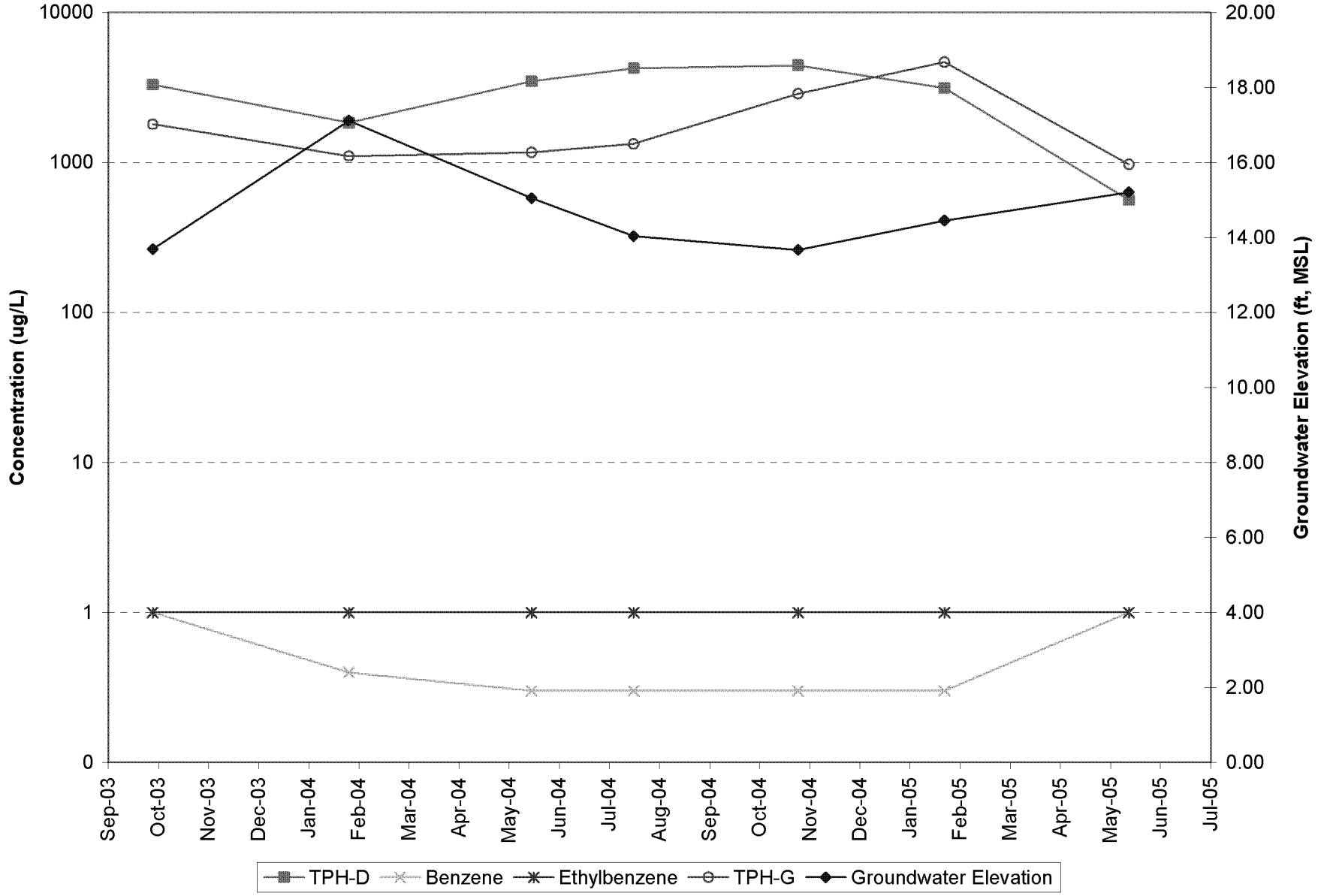
BZTO104(e)021599



LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**Selected Constituents Well LW-25D, Lower Zone Main Tank Farm Area**	Figure 31

BZTO104(e)021600



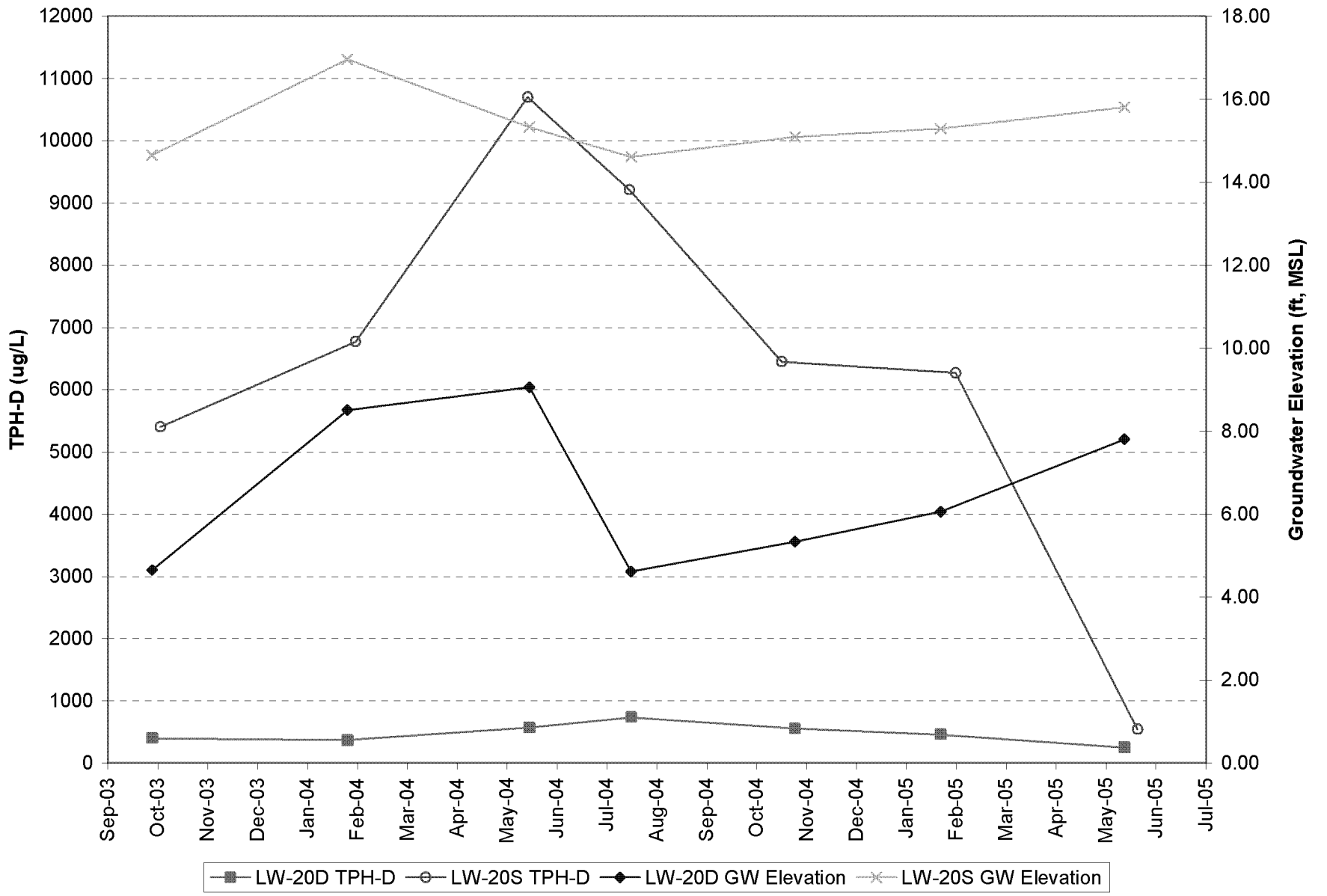
LANDAU ASSOCIATES

Time Oil NW Terminal
Portland, Oregon

Selected Constituents
Well LW-32S, Upper Zone Bell Terminal

Figure
32

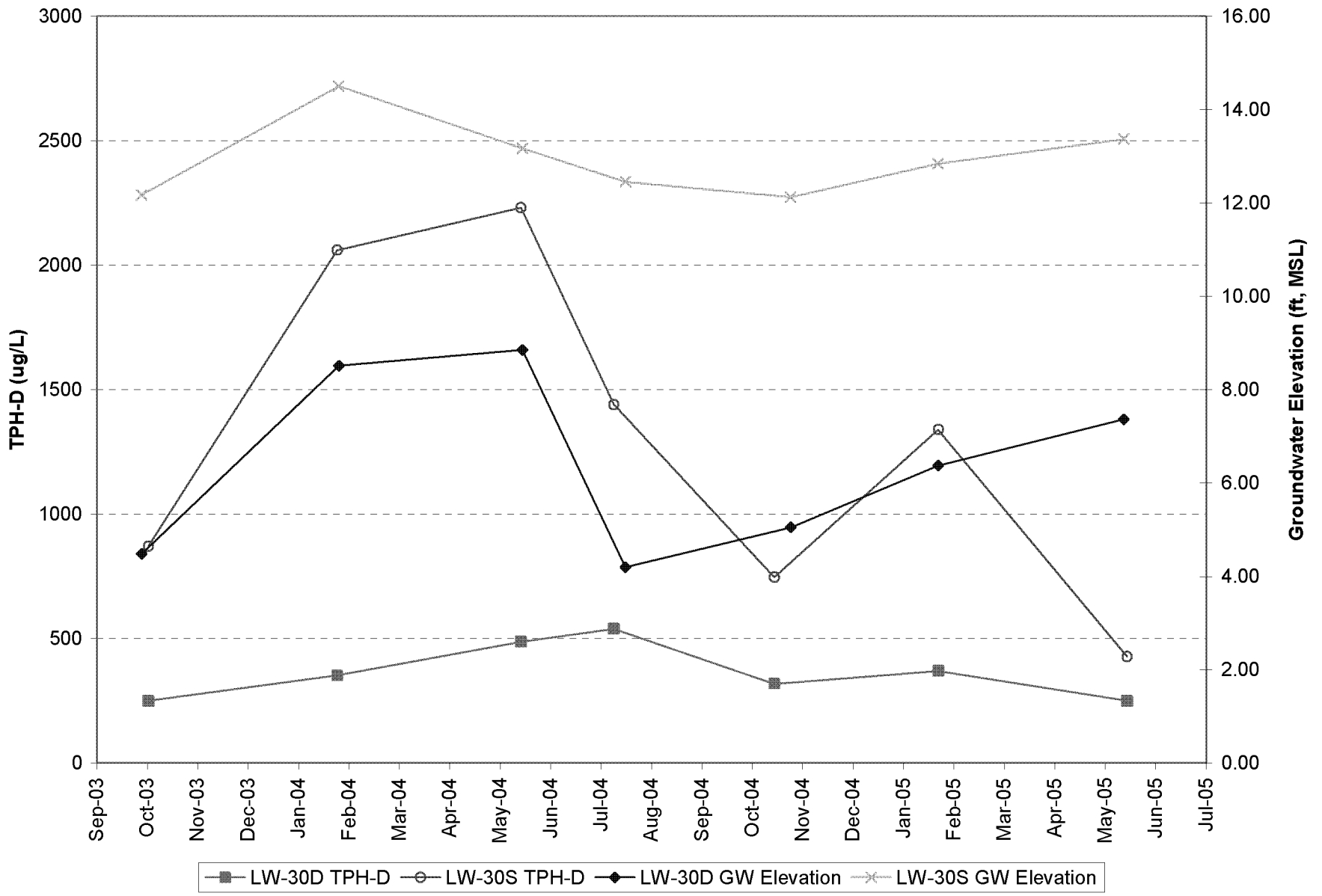
BZTO104(e)021601



LANDAU ASSOCIATES

Time Oil NW Terminal Portland, Oregon	**Diesel-Range TPH vs. Groundwater Elevation LW-20S and LW-20D Main Tank Farm Area**	Figure 33

BZTO104(e)021602



LANDAU ASSOCIATES

Time Oil NW Terminal
Portland, Oregon

Diesel-Range TPH vs. Groundwater Elevation
LW-30S and LW-30D
Main Tank Farm Area

Figure
34

APPENDIX A

Groundwater Level Measurements and Quality Data

TABLE A-1
GROUNDWATER MONITORING LOCATIONS AND ANALYTICAL METHODS
SECOND QUARTER EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Semivolatiles (EPA 8270)	Volatiles (EPA 8260)	MTBE (EPA 8260)	BTEX (EPA 8260)	PCP (EPA 8270 SIM)	PAH (EPA 8270 SIM)	TPH-Dx (NWTPH-Dx)	TPH-Gx (NWTPH-G)	PP Metals (a) (EPA 6010/7000)	Dissolved Metals (EPA 6010/7000)	TDS (EPA 160.1)	Chloride (EPA 9056)	Selenium (EPA 6010)	Major Ions (EPA 9056)	Ferrous Iron (EPA SM3500)	Dioxin/Furans (EPA 8290)
PHASE II UPPER ZONE WELLS																
B1 (b)																
D (b)																
H (b)																
HRW-1 (e)																
J1 (b)	X	X	X		X				X		X	X	X			
L (b)																
LW-1S (b)																
LW-4S	X	X	X				X	X	X		X	X	X			
LW-5S (b)																
LW-8S	X	X	X		X	X	X	X	X		X	X	X			
LW-9S (e)																
LW-10S	X	X	X		X		X	X	X		X	X	X			
LW-11S	X	X	X				X	X	X		X	X	X		X	
LW-13S	X	X	X		X		X	X	X		X	X	X			
OX-1S	X				X				X				X		X	
OX-2S	X								X				X		X	
OX-3S	X								X				X		X	
OX-4S	X								X				X		X	
OX-5S	X				X				X				X		X	
OX-6S	X								X				X		X	X
OX-7S	X								X				X		X	
OX-8S	X								X				X		X	
OX-9S	X				X				X				X		X	
PZ-1 (b)																
PZ-2 (b)																
PZ-3 (b)																
PZ-4 (b, e)																
RW1	X	X	X		X		X	X	X		X	X	X		X	X
W	X	X	X				X	X	X		X	X	X		X	
SDM-1 (h)																
PHASE II LOWER ZONE WELLS																
B2 (b)																
G1A	X	X	X		X		X		X		X	X	X			
J2 (b)																
J3 (b)																
LW-1D (b)																
LW-3D (b)																
LW-4DR	X	X	X		X	X	X	X	X		X	X	X			
LW-6D	X	X	X		X		X		X		X	X	X			
LW9D	X	X	X		X		X	X	X		X	X	X			
LW-10D	X	X	X		X	X	X	X	X		X	X	X			
LW-11D	X	X	X		X	X	X	X	X		X	X	X			
LW-14D (f)																
LW-15D (f)																
LW-16D (f)																
LW-17D	X	X	X		X	X	X	X	X				X			
LW-18D	X	X	X		X	X	X	X	X				X			
O (b)																
OX-8D	X				X				X				X		X	
R (b)																
RW2	X	X	X		X		X	X	X		X	X	X			

BZTO104(e)021605

TABLE A-1
GROUNDWATER MONITORING LOCATIONS AND ANALYTICAL METHODS
SECOND QUARTER EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Semivolatiles (EPA 8270)	Volatiles (EPA 8260)	MTBE (EPA 8260)	BTEX (EPA 8260)	PCP (EPA 8270 SIM)	PAH (EPA 8270 SIM)	TPH-Dx (NWTPH-Dx)	TPH-Gx (NWTPH-G)	PP Metals (a) (EPA 6010/7000)	Dissolved Metals (EPA 6010/7000)	TDS (EPA 160.1)	Chloride (EPA 9056)	Selenium (EPA 6010)	Major Ions (EPA 9056)	Ferrous Iron (EPA SM3500)	Dioxin/Furans (EPA 8290)
PHASE III UPPER ZONE WELLS																
K (b)																
LW-7S	X	X	X		X	X	X	X	X		X	X	X			
LW-19S	X	X	X			X	X	X	X		X	X	X			
LW-20S	X	X	X			X	X	X	X		X	X	X			
LW-21S (c)																
LW-27S (c)																
LW-28S	X	X	X			X	X	X	X		X	X	X			
LW-29S	X	X	X			X	X	X	X		X	X	X			
LW-30S	X	X	X			X	X	X	X		X	X	X			
LW-31S	X	X	X			X	X	X	X		X	X	X			
LW-32S	X	X	X			X	X	X	X		X	X	X			
LW-33S	X	X	X			X	X	X	X		X	X	X			
LW-34S	X	X	X			X	X	X	X		X	X	X			
LW-40S	X	X	X			X	X	X	X		X	X	X			
LW-41S	X	X	X			X	X	X	X		X	X	X			
LW-42S	X	X	X			X	X	X	X		X	X	X			
Z	X	X	X			X	X	X	X		X	X	X			
LW-43S	X	X	X			X	X	X	X		X	X	X			
LW-44S	X	X	X			X	X	X	X		X	X	X			
N	X	X	X			X	X	X	X		X	X	X			
P	X	X	X			X	X	X	X		X	X	X			
Q	X	X	X			X	X	X	X		X	X	X			
PHASE III LOWER ZONE WELLS																
LW-20D	X	X	X			X	X	X	X		X	X	X			
LW-22D	X	X	X			X	X	X	X		X	X	X			
LW-23D	X	X	X			X	X	X	X		X	X	X			
LW-24D	X	X	X													
X	X	X	X		x	X	X	X	X		X	X	X			
LW-25D	X	X	X			X	X	X	X		X	X	X			
LW-26D	X	X	X			X	X	X	X		X	X	X			
LW-27D	X	X	X			X	X	X	X		X	X	X			
LW-29D	X	X	X			X	X	X	X		X	X	X			
LW-30D	X	X	X			X	X	X	X		X	X	X			
LW-32D	X	X	X			X	X	X	X		X	X	X			
LW-35D	X	X	X			X	X	X	X		X	X	X			
LW-36D	X	X	X			X	X	X	X	X	X	X	X			
LW-37D	X	X	X			X	X	X	X	X	X	X	X			
LW-38D	X	X	X			X	X	X	X	X	X	X	X			
LW-39D	X	X	X			X	X	X	X	X	X	X	X			
LW-40D	X	X	X			X	X	X	X		X	X	X			
Y	X	X	X			X	X	X	X		X	X	X			
LW-45D	X	X	X			X	X	X	X		X	X	X			
River-Outfall (g)																

(a) Metals analyzed include: arsenic, chromium, copper, nickel, lead, and zinc.
(b) Wells not part of the Phase II monitoring program per the modifications outlined in Appendix D.
(c) Well contained product and not sampled.
(d) Well damaged during the first ISCO injection event and not sampled. Well has been abandoned and replaced by well location LW-4DR on November 18, 2004.
(e) Well dry and not sampled.
(f) Well not sampled per the Groundwater Interim Action Startup Plan dated July 14, 2000.
(g) River outfall not exposed during this quarterly groundwater sampling event
(h) Pump broken and location not sampled.

Note: Well locations in regular text are part of the Phase II RI sampling program, wells in bold text are part of the Phase III RI sampling program

BZTO104(e)021606

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
Shallow Wells:							
B	03/25/1997	----	29.04	NM	----	NM	Couldn't remove cap
B	03/31/1997	----	29.04	NM	----	NM	Couldn't remove cap
B	07/16/1997	08:30	29.04	11.02	18.02	----	
B	10/21/1997	16:35	29.04	13.39	15.65	----	
B	01/27/1998	12:15	29.04	11.53	17.51	----	
B	05/18/1998	17:56	29.04	12.51	16.53	----	
B	08/17/1998	11:02	29.04	14.40	14.64	----	
B	11/13/1998	10:24	29.04	14.38	14.66	----	
B	02/16/1999	13:36	29.04	9.69	19.35	----	
B	05/18/1999	15:52	29.04	11.72	17.32	----	
B	09/21/1999	12:21	29.04	15.18	13.86	----	
B	12/06/1999	14:37	29.04	13.00	16.04	----	
B	02/16/2000	10:57	29.04	11.84	17.20	----	
B	05/23/2000	17:31	29.04	13.22	15.82	----	
B	08/29/2000	14:23	29.04	15.32	13.72	----	
B	11/09/2000	13:31	29.04	15.29	13.75	----	
B	02/12/2001	15:25	29.04	13.68	15.36	----	
B	06/04/2001	12:49	29.04	14.18	14.86	----	
B	08/16/2001	11:54	29.04	15.80	13.24	----	
B	11/28/2001	12:44	29.04	13.80	15.24	----	
B	02/27/2002	14:33	29.04	12.27	16.77	----	
B	06/27/2002	15:05	29.04	13.38	15.66	----	
B	08/26/2002	16:59	29.04	14.02	15.02	----	
B	11/13/2002	09:01	29.04	13.90	15.14	----	
B	02/11/2003	10:13	29.04	12.85	16.19	----	
B	05/08/2003	08:11	29.04	12.27	16.77	----	
B	08/27/2003	15:30	29.04	14.70	14.34	----	
B1	03/25/1997	10:48	29.74	----	----	----	Couldn't remove cap
B1	03/31/1997	----	29.74	----	----	----	Couldn't remove cap
B1	07/16/1997	07:49	29.74	11.01	18.73	----	
B1	10/21/1997	16:33	29.74	13.56	16.18	----	
B1	01/27/1998	12:10	29.74	11.68	18.06	----	
B1	05/18/1998	17:55	29.74	12.76	16.98	----	
B1	08/17/1998	11:04	29.74	14.15	15.59	----	
B1	11/13/1998	10:21	29.74	15.05	14.69	----	
B1	02/16/1999	13:33	29.74	9.59	20.15	----	
B1	05/18/1999	15:51	29.74	11.79	17.95	----	
B1	09/21/1999	12:19	29.74	14.63	15.11	----	
B1	12/06/1999	14:38	29.74	14.25	15.49	----	
B1	02/16/2000	10:55	29.74	12.20	17.54	----	
B1	05/23/2000	17:32	29.74	13.25	16.49	----	
B1	08/29/2000	14:22	29.74	14.93	14.81	----	
B1	11/09/2000	13:30	29.74	15.56	14.18	----	
B1	02/12/2001	15:26	29.74	15.19	14.55	----	
B1	06/04/2001	12:50	29.74	15.06	14.68	----	
B1	08/16/2001	11:55	29.74	15.72	14.02	----	
B1	11/28/2001	12:45	29.74	15.47	14.27	----	
B1	02/27/2002	14:34	29.74	12.15	17.59	----	
B1	03/05/2002	11:06	29.74	12.28	17.46	----	
B1	04/05/2002	08:42	29.74	12.40	17.34	----	
B1	05/29/2002	00:00	29.74	13.20	16.54	----	
B1	06/27/2002	15:06	29.74	13.77	15.97	----	
B1	08/26/2002	17:00	29.74	14.79	14.95	----	
B1	11/13/2002	09:02	29.74	16.00	13.74	----	
B1	02/11/2003	10:15	29.74	12.86	16.88	----	
B1	05/08/2003	08:12	29.74	12.25	17.49	----	
B1	08/27/2003	15:31	29.74	14.79	14.95	----	
B1	10/23/2003	14:07	29.74	15.61	14.13	----	
B1	02/19/2004	14:13	29.74	12.39	17.35	----	
B1	06/09/2004	09:01	29.74	14.10	15.64	----	
B1	08/10/2004	12:21	29.74	15.18	14.56	----	
B1	11/18/2004	09:04	29.74	15.70	14.04	----	
B1	02/15/2005	10:04	29.74	14.83	14.91	----	Slight product odor
B1	06/07/2005	19:35	29.74	13.95	15.79	----	
C	03/25/1997	12:32	28.89	5.56	23.33	----	
C	03/31/1997	11:38	28.89	6.16	22.73	----	
C	07/16/1997	08:47	28.89	8.28	20.61	----	
C	10/21/1997	15:15	28.89	10.00	18.89	----	
C	01/27/1998	13:41	28.89	7.98	20.91	----	
C	05/18/1998	18:08	28.89	9.54	19.35	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
C	08/17/1998	11:11	28.89	dry	----	----	
C	11/13/1998	10:36	28.89	10.36	18.53	----	
C	02/16/1999	13:58	28.89	5.91	22.98	----	
C	05/18/1999	16:04	28.89	7.90	20.99	----	
C	09/21/1999	12:44	28.89	dry	----	----	
C	12/06/1999	14:50	28.89	9.82	----	----	Water in endcap
C	02/16/2000	09:51	28.89	8.78	20.11	----	
C	05/23/2000	17:55	28.89	dry	----	----	
C	08/29/2000	14:33	28.89	dry	----	----	
C	11/09/2000	13:47	28.89	9.94	18.95	----	Dry?
C	02/12/2001	15:08	28.89	dry	----	----	
C	06/04/2001	13:25	28.89	dry	----	----	
C	08/16/2001	12:11	28.89	dry	----	----	
C	11/28/2001	13:03	28.89	dry	----	----	
C	02/27/2002	14:44	28.89	8.94	19.95	----	
C	06/27/2002	15:36	28.89	dry	----	----	
C	08/26/2002	17:31	28.89	dry	----	----	
C	11/13/2002	09:25	28.89	dry	----	----	
C	02/11/2003	10:46	28.89	dry	----	----	1" water
C	05/08/2003	08:35	28.89	8.53	20.36	----	
C	08/27/2003	15:08	28.89	dry	----	----	
D	03/25/1997	12:25	30.04	8.32	21.72	----	
D	03/31/1997	11:31	30.04	8.66	21.38	----	
D	07/16/1997	08:35	30.04	10.45	19.59	----	
D	10/21/1997	17:10	30.04	13.27	16.77	----	
D	01/27/1998	13:31	30.04	10.72	19.32	----	
D	05/18/1998	17:36	30.04	12.23	17.81	----	
D	08/17/1998	10:57	30.04	13.83	16.21	----	
D	11/13/1998	09:05	30.04	15.01	15.03	----	
D	02/16/1999	13:45	30.04	8.50	21.54	----	
D	05/18/1999	15:59	30.04	11.00	19.04	----	
D	09/21/1999	12:37	30.04	14.41	15.63	----	
D	12/06/1999	14:46	30.04	14.04	16.00	----	
D	02/16/2000	09:55	30.04	11.50	18.54	----	
D	05/23/2000	12:56	30.04	12.74	17.30	----	
D	08/29/2000	14:35	30.04	14.70	15.34	----	
D	11/09/2000	13:43	30.04	15.49	14.55	----	
D	02/12/2001	15:12	30.04	14.99	15.05	----	
D	06/04/2001	12:35	30.04	14.95	15.09	----	
D	08/16/2001	11:46	30.04	15.64	14.40	----	
D	11/28/2001	12:43	30.04	15.45	14.59	----	
D	02/27/2002	14:21	30.04	11.37	18.67	----	
D	03/05/2002	11:00	30.04	11.51	18.53	----	
D	04/05/2002	08:45	30.04	11.65	18.39	----	
D	05/29/2002	00:00	30.04	12.73	17.31	----	
D	06/27/2002	15:00	30.04	13.43	16.61	----	
D	08/26/2002	17:04	30.04	14.68	15.36	----	
D	11/13/2002	09:19	30.04	15.96	14.08	----	
D	02/11/2003	10:41	30.04	12.10	17.94	----	
D	05/08/2003	08:30	30.04	11.48	18.56	----	
D	08/27/2003	15:03	30.04	14.60	15.44	----	
D	10/23/2003	13:50	30.04	15.54	14.50	----	
D	02/19/2004	14:22	30.04	11.83	18.21	----	
D	06/09/2004	09:28	30.04	13.78	16.26	----	
D	08/10/2004	12:13	30.04	15.02	15.02	----	
D	11/18/2004	09:30	30.04	15.69	14.35	----	
D	02/15/2005	09:42	30.04	14.62	15.42	----	
D	06/07/2005	19:28	30.04	13.58	16.46	----	
F	08/18/1998	08:10	NA	14.77	NA		
F							Abandoned August 2003
G	03/25/1997	11:57	30.24	14.49	15.75	----	
G	03/31/1997	09:13	30.24	14.01	16.23	----	
G	07/16/1997	07:37	30.24	14.30	15.94	----	
G	10/21/1997	16:20	30.24	dry	----	----	
G	01/27/1998	11:49	30.24	dry	----	----	
G	05/18/1998	17:30	30.24	dry	----	----	
G	08/17/1998	11:06	30.24	dry	----	----	
G	11/13/1998	09:53	30.24	dry	----	----	
G	02/16/1999	13:14	30.24	dry	----	----	
G	05/18/1999	14:50	30.24	dry	----	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
G	09/21/1999	11:30	30.24	dry	----	----	
G	12/06/1999	14:07	30.24	dry	----	----	
G	02/16/2000	10:19	30.24	dry	----	----	
G	05/23/2000	16:33	30.24	dry	----	----	
G	08/29/2000	13:18	30.24	dry	----	----	
G	11/09/2000	12:30	30.24	dry	----	----	
G	02/12/2001	16:02	30.24	dry	----	----	
G	06/04/2001	11:41	30.24	dry	----	----	
G	08/16/2001	10:50	30.24	dry	----	----	
G	11/28/2001	11:33	30.24	dry	----	----	
G	02/27/2002	13:38	30.24	dry	----	----	
G	06/27/2002	14:13	30.24	dry	----	----	
G	08/26/2002	16:05	30.24	dry	----	----	
G	11/13/2002	07:37	30.24	dry	----	----	
G	02/11/2003	08:58	30.24	dry	----	----	
G	05/08/2003	06:57	30.24	dry	----	----	
G	08/27/2003	13:38	30.24	dry	----	----	
G	10/23/2003	12:38	30.24	dry	----	----	
G	02/19/2004	12:58	30.24	dry	----	----	
G	06/09/2004	07:54	30.24	dry	----	----	
G	08/10/2004	12:01	30.24	dry	----	----	
G	11/18/2004	09:16	30.24	dry	----	----	
H	03/31/1997	11:51	27.08	5.42	21.66	----	
H	07/16/1997	08:44	27.08	7.29	19.79	----	
H	10/21/1997	17:45	27.08	10.08	17.00	----	
H	01/27/1998	13:45	27.08	7.56	19.52	----	
H	05/18/1998	17:50	27.08	9.06	18.02	----	
H	08/17/1998	09:15	27.08	10.68	16.40	----	
H	11/13/1998	10:54	27.08	11.84	15.24	----	
H	02/16/1999	13:50	27.08	5.35	21.73	----	
H	05/18/1999	15:41	27.08	7.78	19.30	----	
H	09/21/1999	12:15	27.08	11.23	15.85	----	
H	12/06/1999	15:13	27.08	10.91	16.17	----	
H	02/16/2000	10:52	27.08	8.28	18.80	----	
H	05/23/2000	17:20	27.08	9.48	17.60	----	
H	08/29/2000	14:06	27.08	11.55	15.53	----	
H	11/09/2000	13:23	27.08	12.34	14.74	----	
H	02/12/2001	15:36	27.08	11.88	15.20	----	
H	06/04/2001	12:27	27.08	11.81	15.27	----	
H	08/16/2001	11:41	27.08	12.57	14.51	----	
H	11/28/2001	12:34	27.08	12.39	14.69	----	
H	02/27/2002	14:18	27.08	8.14	18.94	----	
H	03/05/2002	10:58	27.08	8.28	18.80	----	
H	04/05/2002	09:10	27.08	8.45	18.63	----	
H	05/29/2002	00:00	27.08	9.38	17.70	----	
H	06/27/2002	14:51	27.08	10.25	16.83	----	
H	08/26/2002	17:00	27.08	11.54	15.54	----	
H	11/13/2002	09:12	27.08	12.83	14.25	----	
H	02/11/2003	10:33	27.08	8.96	18.12	----	
H	05/08/2003	08:24	27.08	8.24	18.84	----	
H	08/27/2003	15:02	27.08	11.48	15.60	----	
H	10/23/2003	13:42	27.08	12.41	14.67	----	
H	02/19/2004	14:35	27.08	9.71	17.37	----	
H	06/09/2004	09:16	27.08	10.61	16.47	----	
H	08/10/2004	11:33	27.08	11.93	15.15	----	
H	11/18/2004	09:36	27.08	12.54	14.54	----	
H	06/09/2005	16:10	27.08	10.42	16.66	----	
J1	03/25/1997	12:15	29.70	8.78	20.92	----	Orange/brown algae
J1	03/31/1997	11:19	29.70	9.02	20.68	----	
J1	07/16/1997	08:22	29.70	10.49	19.21	----	
J1	10/21/1997	16:58	29.70	13.10	16.60	----	
J1	01/27/1998	13:15	29.70	11.03	18.67	----	
J1	05/18/1998	18:01	29.70	12.27	17.43	----	
J1	08/17/1998	11:00	29.70	13.78	15.92	----	
J1	11/13/1998	10:30	29.70	14.77	14.93	----	
J1	02/16/1999	13:37	29.70	8.91	20.79	----	
J1	05/18/1999	15:46	29.70	11.19	18.51	----	
J1	09/21/1999	12:28	29.70	14.36	15.34	----	
J1	12/06/1999	15:07	29.70	13.95	15.75	----	
J1	02/16/2000	11:05	29.70	11.67	18.03	----	
J1	05/23/2000	17:27	29.70	12.78	16.92	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
J1	08/29/2000	14:14	29.70	14.58	15.12	----	
J1	11/09/2000	13:25	29.70	15.30	14.40	----	
J1	02/12/2001	15:22	29.70	14.87	14.83	----	
J1	06/04/2001	12:39	29.70	14.83	14.87	----	
J1	08/16/2001	11:52	29.70	15.48	14.22	----	
J1	11/28/2001	12:35	29.70	15.23	14.47	----	
J1	02/27/2002	14:30	29.70	11.62	18.08	----	
J1	03/05/2002	11:04	29.70	11.76	17.94	----	
J1	04/05/2002	08:40	29.70	11.87	17.83	----	
J1	05/29/2002	00:00	29.70	12.77	16.93	----	
J1	06/27/2002	15:02	29.70	13.40	16.30	----	
J1	08/26/2002	16:54	29.70	14.51	15.19	----	
J1	11/13/2002	09:00	29.70	15.71	13.99	----	
J1	02/11/2003	10:18	29.70	12.33	17.37	----	
J1	05/08/2003	08:14	29.70	11.65	18.05	----	
J1	08/27/2003	14:47	29.70	14.46	15.24	----	
J1	10/23/2003	13:52	29.70	15.31	14.39	----	
J1	02/19/2004	14:18	29.70	11.88	17.82	----	
J1	06/09/2004	09:08	29.70	13.71	15.99	----	
J1	08/10/2004	12:20	29.70	14.86	14.84	----	On 8/03, DTW was 14.75; 8/10/04 reading changed from 15.86 to 14
J1	11/18/2004	09:03	29.70	15.45	14.25	----	
J1	02/15/2005	09:50	29.70	14.53	15.17	----	
J1	06/07/2005	19:17	29.70	13.56	16.14	----	
K	03/25/1997	12:08	29.42	8.20	21.22	----	
K	03/31/1997	09:32	29.42	8.46	20.96	----	
K	07/16/1997	08:00	29.42	10.03	19.39	----	
K	10/21/1997	16:45	29.42	12.71	16.71	----	
K	01/27/1998	12:37	29.42	10.46	18.96	----	
K	05/18/1998	17:52	29.42	11.77	17.65	----	
K	08/17/1998	10:50	29.42	13.34	16.08	----	
K	11/13/1998	10:14	29.42	14.30	15.12	----	
K	02/16/1999	13:55	29.42	8.41	21.01	----	
K	05/18/1999	15:30	29.42	10.68	18.74	----	
K	09/21/1999	12:08	29.42	13.91	15.51	----	
K	12/06/1999	14:32	29.42	13.44	15.98	----	
K	02/16/2000	10:48	29.42	11.15	18.27	----	
K	05/23/2000	17:12	29.42	12.25	17.17	----	
K	08/29/2000	13:56	29.42	14.16	15.26	----	
K	11/09/2000	13:16	29.42	14.84	14.58	----	
K	02/12/2001	15:41	29.42	14.35	15.07	----	
K	06/04/2001	12:20	29.42	14.22	15.20	----	
K	08/16/2001	11:35	29.42	15.12	14.30	----	
K	11/28/2001	12:26	29.42	14.68	14.74	----	
K	02/27/2002	14:17	29.42	11.05	18.37	----	
K	03/05/2002	10:55	29.42	11.25	18.17	----	
K	04/05/2002	08:55	29.42	11.30	18.12	----	
K	05/29/2002	00:00	29.42	12.22	17.20	----	
K	06/27/2002	14:47	29.42	12.92	16.50	----	
K	08/26/2002	17:17	29.42	14.12	15.30	----	
K	11/13/2002	09:11	29.42	15.18	14.24	----	
K	02/11/2003	10:29	29.42	11.80	17.62	----	
K	05/08/2003	08:21	29.42	11.14	18.28	----	
K	08/27/2003	14:52	29.42	14.08	15.34	----	
K	10/23/2003	13:40	29.42	14.91	14.51	----	
K	02/19/2004	14:39	29.42	11.41	18.01	----	
K	06/09/2004	09:23	29.42	13.26	16.16	----	
K	08/10/2004	11:28	29.42	14.35	15.07	----	
K	11/18/2004	09:31	29.42	15.01	14.41	----	
K	06/07/2005	19:20	29.42	13.07	16.35	----	
L	03/25/1997	12:35	28.10	4.98	23.12	----	
L	03/31/1997	11:40	28.10	5.24	22.86	----	
L	07/16/1997	08:49	28.10	7.50	20.60	----	
L	10/21/1997	15:18	28.10	9.55	18.55	----	
L	01/27/1998	13:39	28.10	6.45	21.65	----	
L	05/18/1998	18:07	28.10	9.21	18.89	----	
L	08/17/1998	11:10	28.10	11.59	16.51	----	
L	11/13/1998	10:35	28.10	13.02	15.08	----	
L	02/16/1999	13:57	28.10	4.78	23.32	----	
L	05/18/1999	16:03	28.10	7.62	20.48	----	
L	09/21/1999	12:43	28.10	12.30	15.80	----	
L	12/06/1999	14:49	28.10	9.51	18.59	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
L	02/16/2000	09:49	28.10	7.13	20.97	----	
L	05/23/2000	17:54	28.10	9.11	18.99	----	
L	08/29/2000	14:32	28.10	12.66	15.44	----	
L	11/09/2000	13:46	28.10	13.56	14.54	----	
L	02/12/2001	15:07	28.10	13.04	15.06	----	
L	06/04/2001	13:24	28.10	12.78	15.32	----	
L	08/16/2001	12:10	28.10	13.66	14.44	----	
L	11/28/2001	13:02	28.10	12.34	15.76	----	
L	02/27/2002	14:42	28.10	7.16	20.94	----	
L	03/05/2002	11:12	28.10	7.39	20.71	----	
L	04/05/2002	08:39	28.10	7.63	20.47	----	
L	05/29/2002	00:00	28.10	9.09	19.01	----	
L	06/27/2002	10:38	28.10	10.11	17.99	----	
L	08/26/2002	17:30	28.10	12.56	15.54	----	
L	11/13/2002	09:26	28.10	14.00	14.10	----	
L	02/11/2003	10:47	28.10	7.17	20.93	----	
L	05/08/2003	08:34	28.10	7.01	21.09	----	
L	08/27/2003	15:09	28.10	15.20	12.90	----	
L	10/23/2003	14:20	28.10	13.56	14.54	----	
L	02/19/2004	13:57	28.10	6.84	21.26	----	
L	06/09/2004	09:35	28.10	11.10	17.00	----	
L	08/10/2004	12:27	28.10	13.00	15.10	----	
L	11/18/2004	09:42	28.10	13.77	14.33	----	
L	06/07/2005	19:22	28.10	9.51	18.59	----	
N	03/25/1997	11:48	31.40	14.05	17.35	----	
N	03/31/1997	08:59	31.40	14.26	17.14	----	Hydrocarbon odor, product
N	07/16/1997	07:20	31.40	16.03	16.33	1.20	Light brown color; thick coating on probe
N	10/21/1997	16:09	31.40	16.46	14.94	----	No product - strong petroleum odor
N	10/23/1997	17:20	31.40	16.48	14.92	----	No product - strong petroleum odor
N	01/27/1998	11:13	31.40	15.01	16.41	0.02	
N	05/18/1998	17:20	31.40	16.39	15.06	0.06	
N	08/17/1998	10:40	31.40	17.16	14.26	0.02	Thin coat of thick product
N	11/13/1998	09:48	31.40	17.83	13.58	0.01	
N	02/16/1999	12:55	31.40	14.09	17.53	0.27	Strong petroleum odor
N	05/18/1999	14:47	31.40	15.79	15.64	0.04	
N	09/21/1999	11:23	31.40	17.39	14.02	0.01	
N	12/06/1999	14:00	31.40	16.57	14.83	----	
N	02/16/2000	10:10	31.40	15.69	15.71	----	
N	05/23/2000	16:24	31.40	16.42	14.98	----	Strong petroleum odor, no product
N	08/29/2000	13:07	31.40	17.61	13.79	----	
N	11/09/2000	12:26	31.40	18.23	13.19	0.03	
N	02/12/2001	15:49	31.40	17.64	13.76	----	
N	06/04/2001	11:31	31.40	17.58	13.82	----	
N	08/16/2001	10:29	31.40	18.08	13.32	----	Trace product
N	11/28/2001	11:27	31.40	18.06	13.34	----	Trace product
N	02/27/2002	13:25	31.40	15.76	15.64	----	
N	04/05/2002	08:09	31.40	15.88	15.52	----	
N	05/29/2002	00:00	31.40	16.42	14.98	----	
N	06/27/2002	14:12	31.40	16.80	14.60	----	
N	08/26/2002	15:56	31.40	17.51	13.89	----	
N	11/13/2002	07:27	31.40	18.44	12.98	0.03	Product present
N	02/11/2003	08:49	31.40	15.33	16.07	----	
N	05/08/2003	06:51	31.40	15.71	15.69	----	
N	08/27/2003	13:33	31.40	17.54	13.86	----	
N	10/23/2003	12:08	31.40	18.18	13.22	----	
N	02/19/2004	12:21	31.40	15.79	15.61	----	
N	06/09/2004	07:36	31.40	17.04	14.36	----	
N	08/10/2004	10:55	31.40	17.72	13.68	----	
N	11/18/2004	08:38	31.40	dry	----	----	
N	02/15/2005	10:38	31.40	17.40	14.00	----	Slight product odor
N	06/07/2005	19:15	31.40	16.54	14.86	----	
P	03/25/1997	11:45	29.96	12.88	17.08	----	
P	03/31/1997	08:55	29.96	12.94	17.02	----	Hydrocarbon odor, product
P	07/16/1997	07:15	29.96	14.02	16.08	0.17	Light coating on probe; light brown color
P	10/21/1997	16:05	29.96	15.23	14.73	----	No product - strong petroleum odor
P	10/23/1997	17:25	29.96	15.21	14.75	----	No product - strong petroleum odor
P	01/27/1998	11:09	29.96	13.87	16.09	----	
P	05/18/1998	17:18	29.96	13.08	16.88	----	Trace of product on probe
P	08/17/1998	10:37	29.96	15.82	14.15	0.01	Sheen on probe, strong petroleum odor
P	11/13/1998	09:46	29.96	16.63	13.37	0.05	Strong gasoline odor
P	02/16/1999	12:52	29.96	12.91	17.10	0.06	Strong petroleum odor

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
P	05/18/1999	14:43	29.96	14.68	15.38	0.13	
P	09/21/1999	11:20	29.96	16.08	13.89	0.01	
P	12/06/1999	13:55	29.96	15.41	14.55	----	
P	02/16/2000	10:08	29.96	14.51	15.45	----	
P	05/23/2000	16:21	29.96	15.15	14.81	----	Trace of product on surface
P	08/29/2000	13:04	29.96	16.26	13.71	0.01	
P	11/09/2000	12:24	29.96	16.98	13.00	0.03	
P	02/12/2001	15:46	29.96	16.31	13.65	----	
P	06/04/2001	11:27	29.96	16.26	13.70	----	Trace product
P	08/16/2001	10:28	29.96	16.75	13.21	----	
P	11/28/2001	11:24	29.96	17.01	12.95	----	
P	02/27/2002	13:22	29.96	14.60	15.44	0.10	Strong ethanol-like odor
P	04/05/2002	08:07	29.96	14.70	15.34	0.10	
P	05/29/2002	00:00	29.96	15.00	14.96	----	Trace product
P	06/27/2002	14:11	29.96	15.49	14.47	----	
P	08/26/2002	15:54	29.96	16.15	13.81	----	
P	11/13/2002	07:25	29.96	16.99	13.00	0.04	Product present
P	02/11/2003	08:44	29.96	14.13	15.84	0.01	Product present
P	05/08/2003	06:47	29.96	15.53	14.44	0.01	Product barely present
P	08/27/2003	13:30	29.96	16.19	13.77	----	
P	10/23/2003	12:05	29.96	16.60	13.38	0.02	Trace product
P	02/19/2004	12:19	29.96	14.56	15.40	----	
P	06/09/2004	07:35	29.98	15.70	14.28	----	New reference elevation July 2004
P	08/10/2004	10:53	29.98	16.40	13.58	----	
P	11/18/2004	08:37	29.98	dry	----	----	
P	02/15/2005	10:43	29.98	16.08	13.90	----	Slight product odor
P	06/07/2005	19:20	29.98	15.65	14.33	----	
Q	03/25/1997	11:42	30.36	13.55	16.81	----	
Q	03/31/1997	08:52	30.36	13.54	16.82	----	Hydrocarbon odor
Q	07/16/1997	07:10	30.36	14.55	15.83	0.02	Light coating on probe; light brown color
Q	10/21/1997	16:04	30.36	15.70	14.66	----	No product - strong petroleum odor
Q	10/23/1997	17:29	30.36	15.69	14.67	----	No product - strong petroleum odor
Q	01/27/1998	11:05	30.36	14.48	15.88	----	
Q	05/18/1998	17:16	30.36	15.58	14.78	----	
Q	08/17/1998	10:35	30.36	16.27	14.09	----	Slight sheen on probe; no product, strong petroleum odor
Q	11/13/1998	09:44	30.36	17.01	13.36	0.01	Strong gasoline odor
Q	02/16/1999	12:49	30.36	13.61	16.76	0.01	Strong petroleum odor
Q	05/18/1999	14:40	30.36	15.13	15.23	----	Strong odor when cap removed
Q	09/21/1999	11:17	30.36	16.51	13.85	----	
Q	12/06/1999	13:53	30.36	15.88	14.48	----	
Q	02/16/2000	10:06	30.36	15.02	15.34	----	Film of product
Q	05/23/2000	16:19	30.36	15.64	14.72	----	Strong petroleum odor, no product
Q	08/29/2000	13:01	30.36	16.69	13.67	----	
Q	11/09/2000	12:23	30.36	17.50	12.86	----	Trace of product
Q	02/12/2001	15:45	30.36	16.71	13.65	----	
Q	06/04/2001	11:25	30.36	16.66	13.70	----	
Q	08/16/2001	10:26	30.36	17.15	13.21	----	Trace product
Q	11/28/2001	11:21	30.36	17.76	12.94	0.42	
Q	02/27/2002	13:20	30.36	15.07	15.29	----	Strong petroleum odor, no product
Q	04/05/2002	08:05	30.36	15.23	15.13	----	Trace product
Q	05/29/2002	00:00	30.36	15.53	14.83	----	Trace product
Q	06/27/2002	14:10	30.36	15.95	14.41	----	Trace product
Q	08/26/2002	15:52	30.36	16.60	13.76	----	
Q	11/13/2002	07:30	30.36	17.50	12.87	0.01	Product present
Q	02/11/2003	08:47	30.36	14.67	15.69	----	
Q	05/08/2003	06:48	30.36	15.00	15.54	0.22	
Q	08/27/2003	13:28	30.36	16.60	13.76	----	
Q	10/23/2003	12:03	30.36	17.50	13.05	0.24	
Q	02/19/2004	12:17	30.36	15.07	15.29	----	Trace product
Q	06/09/2004	07:34	30.36	16.15	14.21	----	
Q	08/10/2004	10:52	30.36	16.81	13.55	----	
Q	11/18/2004	08:35	30.36	17.55	13.01	0.25	
Q	02/15/2005	10:46	30.36	16.50	13.86	----	Strong product odor
Q	06/07/2005	19:25	30.36	15.70	14.66	----	
LW001S	03/31/1997	11:12	27.96	6.65	21.31		
LW001S	07/16/1997	08:15	27.96	8.34	19.62	----	
LW001S	10/21/1997	16:53	27.96	11.02	16.94	----	
LW001S	01/27/1998	13:00	27.96	8.75	19.21	----	
LW001S	05/18/1998	17:40	27.96	9.15	18.81	----	
LW001S	08/17/1998	10:54	27.96	11.67	16.29	----	
LW001S	11/13/1998	10:02	27.96	12.76	15.20	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW001S	02/16/1999	13:24	27.96	6.60	21.36	----	
LW001S	05/18/1999	15:38	27.96	8.92	19.04	----	
LW001S	09/21/1999	12:10	27.96	12.20	15.76	----	
LW001S	12/06/1999	14:33	27.96	11.86	16.10	----	
LW001S	02/16/2000	10:50	27.96	9.42	18.54	----	
LW001S	05/23/2000	17:18	27.96	10.52	17.44	----	
LW001S	08/29/2000	13:58	27.96	12.51	15.45	----	
LW001S	11/09/2000	13:17	27.96	13.26	14.70	----	
LW001S	02/12/2001	15:33	27.96	12.82	15.14	----	
LW001S	06/04/2001	12:24	27.96	12.77	15.19	----	
LW001S	08/16/2001	11:37	27.96	13.45	14.51	----	
LW001S	11/28/2001	12:28	27.96	13.25	14.71	----	
LW001S	02/27/2002	14:19	27.96	9.31	18.65	----	
LW001S	03/05/2002	10:56	27.96	9.45	18.51	----	
LW001S	04/05/2002	09:08	27.96	9.60	18.36	----	
LW001S	05/29/2002	00:00	27.96	10.49	17.47	----	
LW001S	06/27/2002	14:50	27.96	11.26	16.70	----	
LW001S	08/26/2002	17:11	27.96	12.47	15.49	----	
LW001S	11/13/2002	09:07	27.96	13.72	14.24	----	
LW001S	02/11/2003	10:25	27.96	10.11	17.85	----	
LW001S	05/08/2003	08:20	27.96	9.41	18.55	----	
LW001S	08/27/2003	14:51	27.96	12.46	15.50	----	
LW001S	10/23/2003	13:58	27.96	13.32	14.64	----	
LW001S	02/19/2004	14:28	27.96	9.81	18.15	----	
LW001S	06/09/2004	09:20	27.96	11.60	16.36	----	
LW001S	08/10/2004	11:30	27.96	12.86	15.10	----	
LW001S	11/18/2004	08:57	27.96	13.42	14.54	----	
LW001S	02/15/2005	09:24	27.96	12.47	15.49	----	
LW001S	06/07/2005	19:08	27.96	11.45	16.51	----	
LW002S	03/25/1997	12:22	29.56	8.06	21.50	----	
LW002S	03/31/1997	11:27	29.56	8.34	21.22	----	
LW002S	07/16/1997	08:33	29.56	10.05	19.51	----	
LW002S	10/21/1997	17:04	29.56	12.77	16.79	----	
LW002S	01/27/1998	13:25	29.56	10.39	19.17	----	
LW002S	05/18/1998	18:02	29.56	11.78	17.78	----	
LW002S	08/17/1998	10:56	29.56	13.38	16.18	----	
LW002S	11/13/1998	10:32	29.56	14.47	15.09	----	
LW002S	02/16/1999	13:42	29.56	8.27	21.29	----	
LW002S	05/18/1999	15:45	29.56	10.63	18.93	----	
LW002S	09/21/1999	12:34	29.56	13.95	15.61	----	
LW002S	12/06/1999	15:11	29.56	13.54	16.02	----	
LW002S	02/16/2000	10:38	29.56	11.08	18.48	----	
LW002S	05/23/2000	17:24	29.56	12.29	17.27	----	
LW002S	08/29/2000	14:12	29.56	14.23	15.33	----	
LW002S	11/09/2000	13:04	29.56	15.00	14.56	----	
LW002S	02/12/2001	15:30	29.56	14.52	15.04	----	
LW002S	06/04/2001	12:34	29.56	14.46	15.10	----	
LW002S	08/16/2001	11:45	29.56	15.16	14.40	----	
LW002S	11/28/2001	12:41	29.56	14.90	14.66	----	
LW002S	02/27/2002	14:19	29.56	11.02	18.54	----	
LW002S	03/05/2002	10:59	29.56	11.17	18.39	----	
LW002S	04/05/2002	08:47	29.56	11.33	18.23	----	
LW002S	05/29/2002	00:00	29.56	12.22	17.34	----	
LW002S	06/27/2002	14:56	29.56	13.00	16.56	----	
LW004S	03/31/1997	09:20	30.26	12.77	17.49	----	
LW004S	07/16/1997	07:40	30.26	14.66	15.60	----	
LW004S	10/21/1997	16:25	30.26	16.88	13.38	----	
LW004S	01/27/1998	12:00	30.26	15.13	15.13	----	
LW004S	05/18/1998	17:32	30.26	16.08	14.18	----	
LW004S	08/17/1998	11:07	30.26	17.30	12.96	----	
LW004S	11/13/1998	09:56	30.26	17.96	12.30	----	
LW004S	02/16/1999	13:16	30.26	13.10	17.16	----	
LW004S	05/18/1999	15:03	30.26	15.43	14.83	----	
LW004S	09/21/1999	11:44	30.26	17.61	12.65	----	
LW004S	12/06/1999	14:19	30.26	17.08	13.18	----	
LW004S	02/16/2000	10:31	30.26	15.84	14.42	----	
LW004S	05/23/2000	16:55	30.26	16.71	13.55	----	
LW004S	08/29/2000	13:39	30.26	17.78	12.48	----	
LW004S	11/09/2000	12:53	30.26	18.17	12.09	----	
LW004S	02/12/2001	16:38	30.26	17.08	13.18	----	
LW004S	06/04/2001	12:08	30.26	17.81	12.45	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW004S	08/16/2001	11:14	30.26	18.39	11.87	----	
LW004S	11/28/2001	12:05	30.26	17.84	12.42	----	
LW004S	02/27/2002	14:01	30.26	15.82	14.44	----	
LW004S	03/05/2002	11:35	30.26	15.95	14.31	----	
LW004S	04/05/2002	08:20	30.26	16.02	14.24	----	
LW004S	05/29/2002	00:00	30.26	16.74	13.52	----	
LW004S	06/27/2002	14:39	30.26	16.89	13.37	----	
LW004S	08/26/2002	16:31	30.26	17.68	12.58	----	
LW004S	11/13/2002	08:22	30.26	19.04	11.22	----	
LW004S	02/11/2003	09:31	30.26	16.03	14.23	----	
LW004S	05/08/2003	07:43	30.26	15.75	14.51	----	
LW004S	08/27/2003	13:59	30.26	17.87	12.39	----	
LW004S	10/23/2003	13:18	30.26	18.52	11.74	----	
LW004S	02/19/2004	13:46	30.26	16.49	13.77	----	
LW004S	06/09/2004	08:31	30.32	17.24	13.08	----	New reference elevation July 2004
LW004S	08/10/2004	11:57	30.32	18.03	12.29	----	
LW004S	11/18/2004	09:23	30.32	18.61	11.71	----	
LW004S	02/15/2005	10:21	30.32	17.68	12.64	----	
LW004S	06/07/2005	18:30	30.32	16.90	13.42	----	
LW005S	03/25/1997	12:29	30.79	10.57	20.22	----	
LW005S	03/31/1997	11:35	30.79	10.84	19.95	----	
LW005S	07/16/1997	08:53	30.79	12.29	18.50	----	
LW005S	10/21/1997	15:16	30.79	15.00	15.79	----	
LW005S	01/27/1998	13:36	30.79	12.90	17.89	----	
LW005S	05/18/1998	18:05	30.79	14.19	16.60	----	
LW005S	08/17/1998	11:09	30.79	15.54	15.25	----	
LW005S	11/13/1998	10:38	30.79	16.55	14.24	----	
LW005S	02/16/1999	13:16	30.79	10.59	20.20	----	
LW005S	05/18/1999	16:01	30.79	13.12	17.67	----	
LW005S	09/21/1999	12:40	30.79	16.00	14.79	----	
LW005S	12/06/1999	14:47	30.79	15.64	15.15	----	
LW005S	02/16/2000	09:56	30.79	13.54	17.25	----	
LW005S	05/23/2000	17:51	30.79	14.80	15.99	----	
LW005S	08/29/2000	14:37	30.79	16.35	14.44	----	
LW005S	11/09/2000	13:45	30.79	16.98	13.81	----	
LW005S	02/12/2001	15:13	30.79	16.51	14.28	----	
LW005S	06/04/2001	13:23	30.79	16.43	14.36	----	
LW005S	08/16/2001	12:07	30.79	17.03	13.76	----	
LW005S	11/28/2001	13:01	30.79	16.94	13.85	----	
LW005S	02/27/2002	14:39	30.79	13.48	17.31	----	
LW005S	03/05/2002	11:13	30.79	13.62	17.17	----	
LW005S	04/05/2002	08:38	30.79	13.60	17.19	----	
LW005S	05/29/2002	00:00	30.79	14.81	15.98	----	
LW005S	06/27/2002	10:43	30.79	15.15	15.64	----	
LW005S	08/26/2002	17:08	30.79	16.12	14.67	----	
LW005S	11/13/2002	09:22	30.79	17.39	13.40	----	
LW005S	02/11/2003	10:43	30.79	13.95	16.84	----	
LW005S	05/08/2003	08:32	30.79	13.58	17.21	----	
LW005S	08/27/2003	15:07	30.79	16.11	14.68	----	
LW005S	10/23/2003	14:17	30.79	16.92	13.87	----	
LW005S	02/19/2004	14:00	30.79	13.76	17.03	----	
LW005S	06/09/2004	09:34	30.79	15.50	15.29	----	
LW005S	08/10/2004	12:25	30.79	16.48	14.31	----	
LW005S	11/18/2004	09:40	30.79	17.05	13.74	----	
LW005S	06/07/2005	19:38	30.79	15.34	15.45	----	
LW007S	03/31/1997	11:05	28.10	6.75	21.35	----	
LW007S	07/16/1997	08:05	28.10	8.62	19.48	----	
LW007S	10/21/1997	16:45	28.10	11.26	16.84	----	
LW007S	01/27/1998	12:47	28.10	8.85	19.25	----	
LW007S	05/18/1998	17:48	28.10	10.34	17.76	----	
LW007S	08/17/1998	10:48	28.10	11.85	16.25	----	
LW007S	11/13/1998	10:12	28.10	12.90	15.20	----	Strong gasoline odor
LW007S	02/16/1999	13:53	28.10	6.81	21.29	----	
LW007S	05/18/1999	15:23	28.10	9.14	18.96	----	
LW007S	09/21/1999	12:03	28.10	12.37	15.73	----	
LW007S	12/06/1999	14:27	28.10	12.00	16.10	----	
LW007S	02/16/2000	10:46	28.10	9.60	18.50	----	
LW007S	05/23/2000	17:09	28.10	10.70	17.40	----	
LW007S	08/29/2000	13:53	28.10	12.64	15.46	----	
LW007S	11/09/2000	13:14	28.10	13.36	14.74	----	
LW007S	02/12/2001	15:39	28.10	12.94	15.16	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW007S	06/04/2001	12:17	28.10	12.87	15.23	----	
LW007S	08/16/2001	11:33	28.10	13.58	14.52	----	
LW007S	11/28/2001	12:22	28.10	13.34	14.76	----	
LW007S	02/27/2002	14:15	28.10	9.47	18.63	----	
LW007S	03/05/2002	10:52	28.10	9.62	18.48	----	
LW007S	04/05/2002	08:57	28.10	9.73	18.37	----	
LW007S	05/29/2002	00:00	28.10	10.63	17.47	----	
LW007S	06/27/2002	14:45	28.10	11.36	16.74	----	
LW007S	08/26/2002	17:18	28.10	12.69	15.41	----	
LW007S	11/13/2002	09:16	28.10	13.82	14.28	----	
LW007S	02/11/2003	10:37	28.10	10.18	17.92	----	
LW007S	05/08/2003	08:27	28.10	9.54	18.56	----	
LW007S	08/27/2003	14:58	28.10	12.62	15.48	----	
LW007S	10/23/2003	13:39	28.10	13.45	14.65	----	
LW007S	02/19/2004	14:42	28.10	10.01	18.09	----	
LW007S	06/09/2004	09:25	28.10	11.75	16.35	----	
LW007S	08/10/2004	11:26	28.10	13.00	15.10	----	
LW007S	11/18/2004	08:55	28.10	15.53	12.57	----	
LW007S	02/15/2005	09:02	28.10	12.57	15.53	----	
LW007S	06/07/2005	19:05	28.10	11.58	16.52	----	
LW008S	05/18/1999	14:55	31.28	14.84	16.44	----	
LW008S	09/21/1999	12:24	31.28	16.94	14.34	----	
LW008S	12/06/1999	14:40	31.28	16.63	14.65	----	
LW008S	02/16/2000	10:16	31.28	15.18	16.10	----	
LW008S	05/23/2000	17:42	31.28	15.88	15.40	----	
LW008S	08/29/2000	14:26	31.28	17.06	14.22	----	
LW008S	11/09/2000	13:32	31.28	17.55	13.73	----	
LW008S	02/12/2001	15:58	31.28	17.24	14.04	----	
LW008S	06/04/2001	13:05	31.28	17.14	14.14	----	
LW008S	08/16/2001	12:00	31.28	17.70	13.58	----	
LW008S	11/28/2001	12:57	31.28	17.63	13.68	0.04	
LW008S	02/27/2002	14:37	31.28	15.12	16.16	----	
LW008S	03/05/2002	11:09	31.28	15.26	16.02	----	
LW008S	04/05/2002	08:17	31.28	15.34	15.94	----	
LW008S	05/29/2002	00:00	31.28	15.91	15.37	----	
LW008S	06/27/2002	15:21	31.28	16.21	15.07	----	
LW008S	08/26/2002	16:38	31.28	16.95	14.33	----	
LW008S	11/13/2002	08:50	31.28	17.88	13.40	----	
LW008S	02/11/2003	09:48	31.28	15.57	15.71	----	
LW008S	05/08/2003	08:00	31.28	15.11	16.17	----	
LW008S	08/27/2003	14:25	31.28	16.97	14.31	----	
LW008S	10/23/2003	12:42	31.28	17.54	13.74	----	
LW008S	02/19/2004	15:03	31.28	15.34	15.94	----	
LW008S	06/09/2004	08:43	31.28	16.50	14.78	----	
LW008S	08/10/2004	12:05	31.28	17.23	14.05	----	
LW008S	11/18/2004	09:15	31.28	17.56	13.72	----	
LW008S	02/15/2005	09:59	31.28	16.91	14.37	----	
LW008S	06/07/2005	19:51	31.28	16.30	14.98	----	
LW009S	05/18/1999	14:57	31.04	19.58	11.46	----	Water level appears to be more representative of lower zone
LW009S	09/21/1999	11:36	31.04	dry	----	----	
LW009S	12/06/1999	14:13	31.04	19.64	----	----	Water in endcap
LW009S	02/16/2000	10:24	31.04	19.59	----	----	Water in endcap
LW009S	05/23/2000	16:39	31.04	dry	----	----	
LW009S	08/29/2000	13:28	31.04	dry	----	----	
LW009S	11/09/2000	12:42	31.04	dry	----	----	
LW009S	02/12/2001	16:12	31.04	dry	----	----	
LW009S	06/04/2001	11:50	31.04	dry	----	----	
LW009S	08/16/2001	11:01	31.04	dry	----	----	
LW009S	11/28/2001	11:52	31.04	dry	----	----	
LW009S	02/27/2002	13:48	31.04	dry	----	----	
LW009S	03/05/2002	11:15	31.04	dry	----	----	
LW009S	04/05/2002	08:26	31.04	dry	----	----	
LW009S	05/29/2002	00:00	31.04	dry	----	----	
LW009S	06/27/2002	14:24	31.04	dry	----	----	
LW009S	08/26/2002	16:09	31.04	dry	----	----	
LW009S	11/13/2002	07:49	31.04	dry	----	----	
LW009S	02/11/2003	09:06	31.04	dry	----	----	Recorded DTW of 19.58; well most likely dry
LW009S	05/08/2003	07:11	31.04	dry	----	----	
LW009S	08/27/2003	13:48	31.04	dry	----	----	
LW009S	10/23/2003	12:46	31.04	dry	----	----	
LW009S	02/19/2004	13:04	31.04	dry	----	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW009S	06/09/2004	08:12	31.04	dry	----	----	
LW009S	08/10/2004	11:53	31.04	dry	----	----	
LW009S	11/18/2004	09:28	31.04	dry	----	----	
LW009S	02/15/2005	----	31.04	dry	----	----	
LW009S	06/07/2005	17:22	31.04	dry	----	----	
LW010S	05/18/1999	14:59	30.75	17.24	13.51	----	
LW010S	09/21/1999	11:38	30.75	19.13	11.62	----	
LW010S	12/06/1999	14:14	30.75	18.54	12.21	----	
LW010S	02/16/2000	10:26	30.75	17.62	13.13	----	
LW010S	05/23/2000	16:41	30.75	18.25	12.50	----	
LW010S	08/29/2000	13:30	30.75	dry	----	----	
LW010S	11/09/2000	12:45	30.75	dry	----	----	
LW010S	02/12/2001	16:14	30.75	dry	----	----	
LW010S	06/04/2001	11:53	30.75	dry	----	----	
LW010S	08/16/2001	11:03	30.75	dry	----	----	
LW010S	11/28/2001	11:54	30.75	dry	----	----	
LW010S	02/27/2002	13:50	30.75	17.77	12.98	----	
LW010S	03/05/2002	11:32	30.75	17.84	12.91	----	
LW010S	04/05/2002	08:24	30.75	17.82	12.93	----	
LW010S	05/29/2002	00:00	30.75	18.22	12.53	----	
LW010S	06/27/2002	14:28	30.75	18.27	12.48	----	
LW010S	08/26/2002	16:15	30.75	dry	----	----	
LW010S	11/13/2002	08:00	30.75	dry	----	----	
LW010S	02/11/2003	09:20	30.75	17.50	13.25	----	
LW010S	05/08/2003	07:32	30.75	17.68	13.07	----	
LW010S	08/27/2003	13:51	30.75	dry	----	----	
LW010S	10/23/2003	12:51	30.75	dry	----	----	
LW010S	02/19/2004	13:26	30.75	17.77	12.98	----	
LW010S	06/09/2004	08:22	30.75	18.67	12.08	----	
LW010S	08/10/2004	11:54	30.75	dry	----	----	
LW010S	11/18/2004	09:26	30.75	dry	----	----	
LW010S	02/15/2005	10:09	30.75	18.86	11.89	----	
LW010S	06/07/2005	18:20	30.75	18.35	12.40	----	
LW011S	05/18/1999	15:10	29.10	11.47	17.63	----	
LW011S	09/21/1999	11:51	29.10	14.23	14.87	----	
LW011S	12/06/1999	15:05	29.10	14.00	15.10	----	
LW011S	02/16/2000	11:01	29.10	11.94	17.16	----	
LW011S	05/23/2000	11:01	29.10	13.01	16.09	----	
LW011S	08/29/2000	14:55	29.10	14.51	14.59	----	
LW011S	11/09/2000	13:36	29.10	15.48	13.92	0.37	First occurrence of product in well.
LW011S	02/12/2001	15:18	29.10	14.62	14.48	----	
LW011S	06/04/2001	13:12	29.10	14.65	14.45	----	
LW011S	08/16/2001	11:24	29.10	15.46	13.86	0.28	
LW011S	11/28/2001	12:51	29.10	15.10	14.00	----	Trace product
LW011S	02/27/2002	14:59	29.10	11.86	17.24	----	
LW011S	03/05/2002	11:40	29.10	11.96	17.14	----	
LW011S	04/05/2002	08:34	29.10	12.07	17.03	----	
LW011S	05/29/2002	00:00	29.10	13.00	16.10	----	
LW011S	06/27/2002	15:09	29.10	13.40	15.70	----	
LW011S	08/26/2002	16:48	29.10	14.37	14.73	----	
LW011S	11/13/2002	08:54	29.10	15.53	13.57	----	
LW011S	02/11/2003	10:03	29.10	12.46	16.64	----	
LW011S	05/08/2003	08:07	29.10	11.91	17.19	----	
LW011S	08/27/2003	14:36	29.10	14.32	14.78	----	
LW011S	10/23/2003	14:12	29.10	15.12	13.98	----	
LW011S	02/19/2004	14:02	29.10	12.13	16.97	----	
LW011S	06/09/2004	08:56	29.10	13.72	15.38	----	
LW011S	08/10/2004	12:08	29.10	14.66	14.44	----	
LW011S	11/18/2004	09:08	29.10	15.33	13.84	0.09	
LW011S	02/15/2005	11:03	29.10	14.39	14.71	----	Product odor
LW011S	06/07/2005	20:05	29.10	13.53	15.57	----	
LW013S	05/23/2000	16:51	30.17	17.23	12.94	----	
LW013S	08/29/2000	13:37	30.17	18.27	11.90	----	
LW013S	11/09/2000	12:51	30.17	18.75	11.42	----	
LW013S	02/12/2001	16:30	30.17	18.26	11.91	----	
LW013S	06/04/2001	12:06	30.17	18.30	11.87	----	
LW013S	08/16/2001	11:13	30.17	18.81	11.36	----	
LW013S	11/28/2001	12:03	30.17	18.37	11.80	----	
LW013S	02/27/2002	13:58	30.17	16.60	13.57	----	
LW013S	03/05/2002	11:33	30.17	16.68	13.49	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW013S	04/05/2002	08:22	30.17	16.73	13.44	----	
LW013S	05/29/2002	00:00	30.17	17.30	12.87	----	
LW013S	06/27/2002	14:37	30.17	17.38	12.79	----	
LW013S	08/26/2002	16:30	30.17	18.11	12.06	----	
LW013S	11/13/2002	08:14	30.17	19.04	11.13	----	
LW013S	02/11/2003	09:30	30.17	16.57	13.60	----	
LW013S	05/08/2003	07:41	30.17	16.53	13.64	----	
LW013S	08/27/2003	13:57	30.17	18.27	11.90	----	
LW013S	10/23/2003	13:14	30.17	18.81	11.36	----	
LW013S	02/19/2004	13:40	30.17	16.62	13.55	----	
LW013S	06/09/2004	08:30	30.17	17.66	12.51	----	
LW013S	08/10/2004	11:55	30.17	18.33	11.84	----	
LW013S	11/18/2004	09:24	30.17	18.92	11.25	----	
LW013S	02/15/2005	10:13	30.17	18.00	12.17	----	
LW013S	06/07/2005	18:25	30.17	17.31	12.86	----	
LW019S	10/23/2003	11:54	27.72	16.62	11.10	----	
LW019S	02/19/2004	15:00	27.72	13.84	13.88	----	
LW019S	06/09/2004	07:27	27.72	15.46	12.26	----	
LW019S	08/10/2004	11:07	27.72	16.35	11.37	----	
LW019S	11/18/2004	08:51	27.72	17.18	10.54	----	
LW019S	02/15/2005	08:20	27.72	16.10	11.62	----	
LW019S	06/07/2005	15:39	27.72	14.82	12.90	----	
LW020S	10/23/2003	12:14	29.51	14.86	14.65	----	
LW020S	02/19/2004	14:45	29.51	12.55	16.96	----	
LW020S	06/09/2004	07:47	29.51	14.18	15.33	----	
LW020S	08/10/2004	11:05	29.51	14.90	14.61	----	
LW020S	11/18/2004	08:46	29.51	14.42	15.09	----	
LW020S	02/15/2005	08:28	29.51	14.23	15.28	----	
LW020S	06/07/2005	15:27	29.51	13.70	15.81	----	
LW021S	10/23/2003	12:16	30.29	16.57	13.72	----	
LW021S	02/19/2004	14:54	30.29	13.82	17.29	1.03	
LW021S	06/09/2004	07:44	30.29	15.36	15.02	0.11	
LW021S	08/10/2004	11:02	30.29	16.40	14.03	0.17	
LW021S	11/18/2004	08:43	30.29	16.51	13.87	0.11	
LW021S	02/15/2005	10:52	30.29	15.63	14.68	0.02	
LW021S	06/09/2005	16:00	30.29	14.42	15.94	0.09	Product observed
LW027S	10/23/2003	12:20	30.59	25.40	5.19	----	
LW027S	02/19/2004	12:44	30.59	22.07	9.07	0.69	
LW027S	06/09/2004	07:39	30.59	21.26	9.33	----	
LW027S	08/10/2004	10:58	30.59	24.56	6.13	0.12	
LW027S	11/18/2004	07:39	30.59	24.68	5.93	0.02	
LW027S	02/15/2005	10:58	30.59	23.66	6.95	0.02	
LW027S	06/07/2005	19:10	30.59	21.65	9.02	0.10	Product observed
LW028S	10/23/2003	14:26	30.98	dry	----	----	
LW028S	02/19/2004	15:17	30.98	12.87	18.11	----	
LW028S	06/09/2004	09:52	30.98	15.15	15.83	----	
LW028S	08/10/2004	11:45	30.98	dry	----	----	
LW028S	11/18/2004	09:45	30.98	dry	----	----	
LW028S	02/15/2005	11:13	30.98	15.31	15.67	----	
LW028S	06/07/2005	12:17	30.98	14.80	16.18	----	
LW029S	10/23/2003	14:39	31.34	18.88	12.46	----	
LW029S	02/19/2004	15:30	31.34	16.52	14.82	----	
LW029S	06/09/2004	09:43	31.34	17.85	13.49	----	
LW029S	08/10/2004	11:50	31.34	18.56	12.78	----	
LW029S	11/18/2004	09:58	31.34	18.97	12.37	----	
LW029S	02/15/2005	11:35	31.34	18.15	13.19	----	
LW029S	06/07/2005	14:19	31.34	17.61	13.73	----	
LW030S	10/23/2003	14:41	30.08	17.91	12.17	----	
LW030S	02/19/2004	15:32	30.08	15.58	14.50	----	
LW030S	06/09/2004	09:46	30.08	16.91	13.17	----	
LW030S	08/10/2004	11:52	30.08	17.62	12.46	----	
LW030S	11/18/2004	09:59	30.08	17.96	12.12	----	
LW030S	02/15/2005	11:33	30.08	17.24	12.84	----	
LW030S	06/07/2005	14:23	30.08	16.71	13.37	----	
LW031S	10/23/2003	14:30	31.26	18.87	12.39	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW031S	02/19/2004	15:21	31.26	16.07	15.19	----	
LW031S	06/09/2004	09:56	31.26	17.67	13.59	----	
LW031S	08/10/2004	11:42	31.26	16.52	14.74	----	
LW031S	11/18/2004	09:50	31.26	18.93	12.33	----	
LW031S	02/15/2005	11:08	31.26	18.14	13.12	----	
LW031S	06/07/2005	13:57	31.26	17.45	13.81	----	
LW032S	10/23/2003	14:32	30.71	17.02	13.69	----	
LW032S	02/19/2004	15:29	30.71	13.59	17.12	----	
LW032S	06/09/2004	09:58	30.71	15.66	15.05	----	
LW032S	08/10/2004	11:46	30.71	16.67	14.04	----	
LW032S	11/18/2004	09:52	30.71	17.04	13.67	----	
LW032S	02/15/2005	10:58	30.71	16.26	14.45	----	
LW032S	06/07/2005	13:33	30.71	15.50	15.21	----	
LW033S	10/23/2003	14:35	29.89	dry	----	----	
LW033S	02/19/2004	15:23	29.89	13.89	16.00	----	
LW033S	06/09/2004	10:02	29.89	15.60	14.29	----	
LW033S	08/10/2004	11:44	29.89	16.69	13.20	----	
LW033S	11/18/2004	09:51	29.89	dry	----	----	
LW033S	02/15/2005	11:05	29.89	16.36	13.53	----	
LW033S	06/07/2005	12:00	29.89	15.44	14.45	----	
LW034S	10/23/2003	14:24	30.93	16.99	13.94	----	
LW034S	02/19/2004	15:15	30.93	13.29	17.64	----	
LW034S	06/09/2004	09:50	30.93	15.53	15.40	----	
LW034S	08/10/2004	11:39	30.93	16.61	14.32	----	
LW034S	11/18/2004	09:46	30.93	17.00	13.93	----	
LW034S	02/15/2005	11:16	30.93	16.20	14.73	----	
LW034S	06/07/2005	11:30	30.93	15.38	15.55	----	
LW040S	11/18/2004	08:59	33.70	dry	----	----	
LW040S	02/15/2005	08:45	33.70	dry	----	----	
LW040S	06/07/2005	15:55	33.70	19.84	13.86	----	
LW041S	11/18/2004	10:02	29.85	dry	----	----	
LW041S	02/15/2005	11:26	29.85	dry	----	----	
LW041S	06/07/2005	14:43	29.85	19.05	10.80	----	
LW042S	11/18/2004	10:00	30.45	18.89	11.56	----	
LW042S	02/15/2005	11:30	30.45	18.25	12.20	----	
LW042S	06/07/2005	14:40	30.45	17.88	12.57	----	
LW043S	11/18/2004	09:49	30.66	18.44	12.22	----	
LW043S	02/15/2005	11:10	30.66	17.67	12.99	----	
LW043S	06/07/2005	14:02	30.66	17.07	13.59	----	
LW044S	11/18/2004	09:53	30.86	17.44	13.42	----	
LW044S	02/15/2005	10:53	30.86	16.60	14.26	----	
LW044S	06/07/2005	14:06	30.86	15.90	14.96	----	
LW101S	03/31/1997	09:54	29.41	4.51	24.90	----	
LW101S	07/16/1997	09:01	29.41	6.81	22.60	----	
LW101S	10/21/1997	18:01	29.41	7.28	22.13	----	
LW101S	01/27/1998	14:15	29.41	4.10	25.31	----	
LW101S	05/18/1998	18:18	29.41	6.68	22.73	----	
LW101S	08/17/1998	11:21	29.41	8.14	21.27	----	
LW101S	11/13/1998	10:48	29.41	8.61	20.80	----	
LW101S	02/16/1999	14:11	29.41	3.21	26.20	----	
LW101S	05/18/1999	16:17	29.41	6.00	23.41	----	
LW101S	09/21/1999	12:54	29.41	8.60	20.81	----	
LW101S	12/06/1999	14:58	29.41	6.98	22.43	----	
LW101S	02/16/2000	09:44	29.41	4.96	24.45	----	
LW101S	05/23/2000	18:06	29.41	6.83	22.58	----	
LW101S	08/29/2000	14:47	29.41	8.67	20.74	----	
LW101S	11/09/2000	13:56	29.41	9.39	20.02	----	
LW101S	02/12/2001	15:02	29.41	8.02	21.39	----	
LW101S	06/04/2001	13:35	29.41	8.40	21.01	----	
LW101S	08/16/2001	12:20	29.41	9.44	19.97	----	
LW101S	11/28/2001	13:12	29.41	8.58	20.83	----	
LW101S	02/27/2002	14:52	29.41	5.70	23.71	----	
LW101S	06/27/2002	15:32	29.41	7.80	21.61	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW101S	08/26/2002	17:34	29.41	8.85	20.56	----	
LW101S	11/13/2002	09:35	29.41	9.92	19.49	----	
LW101S	02/11/2003	10:59	29.41	5.27	24.14	----	
LW101S	05/08/2003	08:43	29.41	5.40	24.01	----	
LW101S	08/27/2003	15:14	29.41	8.59	20.82	----	
LW102S	03/31/1997	10:01	25.77	1.86	23.91	----	
LW102S	07/16/1997	09:09	25.77	3.91	21.86	----	
LW102S	10/21/1997	17:59	25.77	4.03	21.74	----	
LW102S	01/27/1998	14:07	25.77	1.26	24.51	----	
LW102S	05/18/1998	18:15	25.77	3.57	22.20	----	
LW102S	08/17/1998	11:18	25.77	4.88	20.89	----	
LW102S	11/13/1998	10:45	25.77	5.14	20.63	----	
LW102S	02/16/1999	14:08	25.77	0.45	25.32	----	
LW102S	05/18/1999	16:12	25.77	3.24	22.53	----	
LW102S	09/21/1999	12:52	25.77	5.33	20.44	----	
LW102S	12/06/1999	14:56	25.77	3.67	22.10	----	
LW102S	02/16/2000	09:41	25.77	1.91	23.86	----	
LW102S	05/23/2000	18:03	25.77	3.72	22.05	----	
LW102S	08/29/2000	14:45	25.77	5.40	20.37	----	
LW102S	11/09/2000	13:53	25.77	5.94	19.83	----	
LW102S	02/12/2001	15:00	25.77	4.52	21.25	----	
LW102S	06/04/2001	13:32	25.77	4.93	20.84	----	
LW102S	08/16/2001	12:17	25.77	5.96	19.81	----	
LW102S	11/28/2001	13:10	25.77	5.15	20.62	----	
LW102S	02/27/2002	14:48	25.77	2.14	23.63	----	
LW102S	06/27/2002	15:30	25.77	4.50	21.27	----	
LW102S	08/26/2002	17:39	25.77	5.48	20.29	----	
LW102S	11/13/2002	09:32	25.77	6.50	19.27	----	
LW102S	02/11/2003	10:55	25.77	1.88	23.89	----	
LW102S	05/08/2003	08:40	25.77	2.22	23.55	----	
LW102S	08/27/2003	15:17	25.77	5.24	20.53	----	
LW103S	03/31/1997	09:50	29.07	5.50	23.57	----	
LW103S	07/16/1997	08:59	29.07	6.93	22.14	----	
LW103S	10/21/1997	18:03	29.07	7.08	21.99	----	
LW103S	01/27/1998	14:20	29.07	5.11	23.96	----	
LW103S	05/18/1998	18:21	29.07	6.57	22.50	----	
LW103S	08/17/1998	11:24	29.07	7.80	21.27	----	
LW103S	11/13/1998	10:51	29.07	7.91	21.16	----	
LW103S	02/16/1999	14:14	29.07	4.54	24.53	----	
LW103S	05/18/1999	16:20	29.07	6.20	22.87	----	
LW103S	09/21/1999	12:57	29.07	8.30	20.77	----	
LW103S	12/06/1999	15:00	29.07	6.60	22.47	----	
LW103S	02/16/2000	09:46	29.07	5.50	23.57	----	
LW103S	05/23/2000	18:10	29.07	6.64	22.43	----	
LW103S	08/29/2000	14:50	29.07	8.41	20.66	----	
LW103S	11/09/2000	13:58	29.07	8.78	20.29	----	
LW103S	02/12/2001	15:04	29.07	7.39	21.68	----	
LW103S	06/04/2001	13:37	29.07	7.83	21.24	----	
LW103S	08/16/2001	12:23	29.07	9.07	20.00	----	
LW103S	11/28/2001	13:16	29.07	8.02	21.05	----	
LW103S	02/27/2002	14:50	29.07	5.26	23.81	----	
LW103S	06/27/2002	15:34	29.07	7.42	21.65	----	
LW103S	08/26/2002	17:36	29.07	8.57	20.50	----	
LW103S	11/13/2002	09:37	29.07	9.48	19.59	----	
LW103S	02/11/2003	11:03	29.07	5.65	23.42	----	
LW103S	05/08/2003	08:46	29.07	5.86	23.21	----	
LW103S	08/27/2003	15:15	29.07	8.33	20.74	----	
LW104S	03/31/1997	10:06	26.57	3.55	23.02	----	
LW104S	07/16/1997	08:54	26.57	5.71	20.86	----	
LW104S	10/21/1997	16:22	26.57	5.71	20.86	----	
LW104S	01/27/1998	14:00	26.57	2.84	23.73	----	
LW104S	05/18/1998	18:11	26.57	5.17	21.40	----	
LW104S	08/17/1998	11:15	26.57	6.64	19.93	----	
LW104S	11/13/1998	10:41	26.57	6.72	19.85	----	
LW104S	02/16/1999	14:03	26.57	2.11	24.46	----	
LW104S	05/18/1999	16:08	26.57	4.97	21.60	----	
LW104S	09/21/1999	12:48	26.57	7.18	19.39	----	
LW104S	12/06/1999	14:54	26.57	5.00	21.57	----	
LW104S	02/16/2000	09:39	26.57	3.61	22.96	----	
LW104S	05/23/2000	17:59	26.57	5.61	20.96	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW104S	08/29/2000	14:43	26.57	7.08	19.49	----	
LW104S	11/09/2000	13:51	26.57	7.49	19.08	----	
LW104S	02/12/2001	14:57	26.57	6.28	20.29	----	
LW104S	06/04/2001	13:30	26.57	6.64	19.93	----	
LW104S	08/16/2001	12:15	26.57	7.56	19.01	----	
LW104S	11/28/2001	13:06	26.57	6.30	20.27	----	
LW104S	02/27/2002	14:46	26.57	4.07	22.50	----	
LW104S	06/27/2002	15:27	26.57	6.28	20.29	----	
LW104S	08/26/2002	17:41	26.57	7.13	19.44	----	
LW104S	11/13/2002	09:30	26.57	7.85	18.72	----	
LW104S	02/11/2003	10:51	26.57	3.72	22.85	----	
LW104S	05/08/2003	08:38	26.57	4.94	21.63	----	
LW104S	08/27/2003	15:19	26.57	6.87	19.70	----	
RW1	05/18/1999	15:06	31.46	15.70	15.76	----	
RW1	09/21/1999	11:46	31.46	18.02	13.44	----	
RW1	12/06/1999	14:43	31.46	17.73	13.73	----	
RW1	02/16/2000	10:33	31.46	16.14	15.32	----	
RW1	05/23/2000	17:46	31.46	17.09	14.37	----	
RW1	08/29/2000	14:28	31.46	18.29	13.17	----	
RW1	11/09/2000	12:57	31.46	18.67	12.79	----	
RW1	02/12/2001	16:44	31.46	18.30	13.16	----	
RW1	06/04/2001	13:17	31.46	18.22	13.24	----	
RW1	08/16/2001	10:55	31.46		31.46	----	Vapor/water recovery system test running - not measurec
RW1	11/28/2001	12:02	31.46	18.55	12.91	----	
RW1	02/27/2002	14:03	31.46	16.12	15.34	----	
RW1	03/05/2002	11:38	31.46	16.33	15.13	----	
RW1	04/05/2002	08:27	31.46	16.28	15.18	----	
RW1	05/29/2002	00:00	31.46	17.00	14.46	----	
RW1	06/27/2002	15:16	31.46	17.33	14.13	----	
RW1	08/26/2002	16:40	31.46	18.00	13.46	----	
RW1	11/13/2002	08:26	31.46	18.85	12.61	----	
RW1	02/11/2003	09:34	31.46	16.50	14.96	----	
RW1	05/08/2003	07:46	31.46	16.23	15.23	----	
RW1	08/27/2003	14:04	31.46	18.09	13.37	----	
RW1	10/23/2003	13:23	31.46	18.55	12.91	----	
RW1	02/19/2004	13:52	31.46	16.31	15.15	----	
RW1	06/09/2004	08:35	31.46	17.60	13.86	----	
RW1	08/10/2004	12:03	31.46	18.22	13.24	----	
RW1	11/18/2004	09:21	31.46	18.61	12.85	----	
RW1	02/15/2005	10:24	31.46	17.95	13.51	----	
RW1	06/07/2005	19:55	31.46	17.20	14.26	----	
RW3	12/06/1999	15:24	29.96	14.20	15.76	----	
RW3	02/16/2000	10:37	29.96	11.88	18.08	----	
RW3	05/23/2000	17:26	29.96	13.02	16.94	----	
RW3	08/29/2000	13:42	29.96	14.88	15.08	----	
RW3	11/09/2000	13:03	29.96	15.58	14.38	----	
RW3	02/12/2001	15:28	29.96	15.13	14.83	----	
RW3	06/04/2001	12:30	29.96	15.09	14.87	----	
RW3	08/16/2001	11:44	29.96	15.74	14.22	----	
RW3	11/28/2001	12:40	29.96	15.52	14.44	----	
RW3	02/27/2002	14:26	29.96	11.80	18.16	----	
RW3	03/05/2002	11:02	29.96	11.94	18.02	----	
RW3	04/05/2002	08:44	29.96	12.06	17.90	----	
RW3	05/29/2002	00:00	29.96	13.00	16.96	----	
RW3	06/27/2002	14:59	29.96	13.64	16.32	----	
RW3							Abandoned August 2003
PZ1	05/23/2000	17:47	28.04	14.21	13.83	----	
PZ1	08/29/2000	14:30	28.04	15.33	12.71	----	
PZ1	11/09/2000	12:55	28.04	15.68	12.36	----	
PZ1	02/12/2001	16:42	28.04	15.30	12.74	----	
PZ1	06/04/2001	13:20	28.04	15.29	12.75	----	
PZ1	08/16/2001	11:17	28.04	15.94	12.10	----	
PZ1	11/28/2001	12:09	28.04	15.48	12.56	----	
PZ1	02/27/2002	14:02	28.04	13.28	14.76	----	
PZ1	03/05/2002	11:34	28.04	13.40	14.64	----	
PZ1	04/05/2002	08:32	28.04	13.44	14.60	----	
PZ1	05/29/2002	00:00	28.04	14.16	13.88	----	
PZ1	06/27/2002	15:17	28.04	14.50	13.54	----	
PZ1	08/26/2002	16:33	28.04	15.17	12.87	----	
PZ1	11/13/2002	08:42	28.04	15.83	12.21	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
PZ1	02/11/2003	09:36	28.04	13.58	14.46	----	
PZ1	05/08/2003	07:58	28.04	13.25	14.79	----	
PZ1	08/27/2003	14:20	28.04	15.32	12.72	----	
PZ1	10/23/2003	13:19	28.04	15.75	12.29	----	
PZ1	02/19/2004	13:56	28.04	13.41	14.63	----	
PZ1	06/09/2004	08:37	28.04	14.75	13.29	----	
PZ1	08/10/2004	12:00	28.04	15.42	12.62	----	
PZ1	11/18/2004	09:22	28.04	15.46	12.58	----	
PZ1	06/07/2005	18:45	28.04	14.30	13.74	----	
PZ2	06/27/2002	15:18	31.97	18.31	13.66	----	
PZ2	08/26/2002	16:34	31.97	18.88	13.09	----	
PZ2	11/13/2002	08:25	31.97	19.40	12.57	----	
PZ2	02/11/2003	09:44	31.97	17.46	14.51	----	
PZ2	05/08/2003	07:45	31.97	17.15	14.82	----	
PZ2	08/27/2003	14:03	31.97	19.02	12.95	----	
PZ2	10/23/2003	13:21	31.97	19.27	12.75	0.06	
PZ2	02/19/2004	13:50	31.97	17.36	14.61	----	
PZ2	06/09/2004	08:33	31.97	18.51	13.46	----	
PZ2	08/10/2004	12:02	31.97	19.12	12.85	----	
PZ2	11/18/2004	09:20	31.97	19.24	12.73	----	
PZ2	06/07/2005	18:35	31.97	18.19	13.78	----	
PZ3	06/27/2002	15:19	31.12	19.35	11.77	----	
PZ3	08/26/2002	16:35	31.12	19.74	11.38	----	
PZ3	11/13/2002	08:45	31.12	16.87	----	----	
PZ3	02/11/2003	09:40	31.12	19.05	12.07	----	
PZ3	05/08/2003	07:53	31.12	18.95	12.17	----	
PZ3	08/27/2003	14:26	31.12	19.82	11.30	----	
PZ3	10/23/2003	12:39	31.12	dry	----	----	
PZ3	02/19/2004	15:09	31.12	19.07	12.05	----	
PZ3	06/09/2004	08:39	31.12	19.53	11.59	----	
PZ3	08/10/2004	12:04	31.12	19.86	11.26	----	
PZ3	11/18/2004	09:19	31.12	dry	----	----	
PZ3	06/07/2005	18:40	31.12	18.33	12.79	----	
PZ4	06/27/2002	15:20	28.47	dry	----	----	
PZ4	08/26/2002	16:36	28.47	dry	----	----	
PZ4	11/13/2002	08:48	28.47	16.87	11.60	----	
PZ4	02/11/2003	09:41	28.47	dry	----	----	
PZ4	05/08/2003	07:52	28.47	17.78	10.69	----	
PZ4	08/27/2003	14:27	28.47	dry	----	----	
PZ4	10/23/2003	12:36	28.47	dry	----	----	
PZ4	02/19/2004	15:08	28.47	dry	----	----	
PZ4	06/09/2004	08:41	28.47	dry	----	----	
PZ4	08/10/2004	12:03	28.47	dry	----	----	
PZ4	11/18/2004	09:18	28.47	dry	----	----	
PZ4	06/07/2005	19:00	28.47	dry	----	----	
OX001S	06/27/2002	15:13	33.38	17.85	15.53	----	
OX001S	08/26/2002	16:45	33.38	18.75	14.63	----	
OX001S	11/13/2002	08:30	33.38	19.92	13.46	----	
OX001S	02/11/2003	09:59	33.38	16.96	16.42	----	
OX001S	05/08/2003	08:04	33.38	16.48	16.90	----	
OX001S	08/27/2003	14:38	33.38	18.76	14.62	----	
OX001S	10/23/2003	14:09	33.38	19.51	13.87	----	
OX001S	02/19/2004	14:10	33.38	16.64	16.74	----	
OX001S	06/09/2004	08:45	33.38	18.16	15.22	----	
OX001S	08/10/2004	12:07	33.38	19.08	14.30	----	
OX001S	11/18/2004	09:07	33.38	19.63	13.77	0.03	
OX001S	02/15/2005	11:11	33.38	18.77	14.61	----	Strong product odor
OX001S	06/07/2005	19:35	33.38	17.97	15.41	----	
OX002S	06/27/2002	15:12	28.69	13.22	15.47	----	
OX002S	08/26/2002	16:44	28.69	14.26	14.43	----	
OX002S	11/13/2002	08:33	28.81	15.39	13.42	----	New reference elevation September 2002
OX002S	02/11/2003	10:06	28.81	12.39	16.42	----	
OX002S	05/08/2003	08:09	28.81	11.90	16.91	----	
OX002S	08/27/2003	14:33	28.81	14.55	14.26	----	
OX002S	10/23/2003	14:14	28.81	15.22	13.84	0.31	
OX002S	02/19/2004	14:07	28.81	12.06	16.75	----	
OX002S	06/09/2004	08:52	28.95	13.61	15.34	----	New reference elevation July 2004

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
OX002S	08/10/2004	12:09	28.95	14.53	14.42	----	
OX002S	11/18/2004	09:10	28.95	15.18	13.87	0.13	
OX002S	02/15/2005	11:09	28.95	14.25	14.72	0.03	
OX002S	06/07/2005	20:00	28.95	13.45	15.50	----	
OX003S	06/27/2002	15:14	30.01	14.65	15.36	----	
OX003S	08/26/2002	16:42	30.01	15.50	14.51	----	
OX003S	11/13/2002	08:31	30.01	16.65	13.36	----	
OX003S	02/11/2003	09:58	30.01	13.78	16.23	----	
OX003S	05/08/2003	08:03	30.01	13.30	16.71	----	
OX003S	08/27/2003	14:40	30.01	15.52	14.49	----	
OX003S	10/23/2003	14:10	30.01	16.22	13.79	----	
OX003S	02/19/2004	14:09	30.01	13.47	16.54	----	
OX003S	06/09/2004	08:51	30.01	14.96	15.05	----	
OX003S	08/10/2004	12:06	30.01	15.81	14.20	----	
OX003S	11/18/2004	09:13	30.01	16.61	13.66	0.33	
OX003S	02/15/2005	11:18	30.01	15.53	14.48	----	Slight product odor
OX003S	06/07/2005	19:50	30.01	15.78	14.23	----	
OX004S	06/27/2002	15:15	33.42	19.07	14.35	----	
OX004S	08/26/2002	16:39	33.42	19.74	13.68	----	
OX004S	11/13/2002	08:24	33.54	20.73	12.81	----	New reference elevation September 2002
OX004S	02/11/2003	09:38	33.54	18.39	15.15	----	
OX004S	05/08/2003	07:47	33.54	19.07	14.47	----	
OX004S	08/27/2003	14:07	33.54	19.95	13.59	----	
OX004S	10/23/2003	12:43	33.54	dry	----	----	
OX004S	02/19/2004	13:54	33.54	18.21	15.33	----	
OX004S	06/09/2004	08:38	33.51	19.44	14.07	----	New reference elevation July 2004
OX004S	08/10/2004	12:06	33.51	20.12	13.39	----	
OX004S	11/18/2004	09:17	33.51	dry	----	----	
OX004S	02/15/2005	10:27	33.51	19.82	13.69	----	
OX004S	06/07/2005	19:40	33.51	19.15	14.36	----	
OX005S	10/23/2003	13:44	30.74	16.15	14.59	----	
OX005S	02/19/2004	14:25	30.74	12.46	18.28	----	
OX005S	06/09/2004	09:14	30.74	14.35	16.39	----	
OX005S	08/10/2004	12:18	30.74	15.65	15.09	----	
OX005S	11/18/2004	08:58	30.74	16.26	14.48	----	
OX005S	02/15/2005	09:28	30.74	15.22	15.52	----	
OX005S	06/07/2005	19:12	30.74	14.20	16.54	----	
OX006S	10/23/2003	13:45	30.92	16.43	14.49	----	
OX006S	02/19/2004	14:24	30.92	12.85	18.07	----	
OX006S	06/09/2004	09:12	31.03	14.71	16.32	----	New reference elevation July 2004
OX006S	08/10/2004	12:17	31.03	16.09	14.94	----	
OX006S	11/18/2004	09:00	31.03	16.66	14.37	----	
OX006S	02/15/2005	09:30	31.03	15.72	15.31	----	
OX006S	06/07/2005	20:15	31.03	14.65	16.38	----	
OX007S	10/23/2003	13:46	30.68	16.25	14.43	----	
OX007S	02/19/2004	14:23	30.68	12.67	18.01	----	
OX007S	06/09/2004	09:11	30.68	14.55	16.13	----	
OX007S	08/10/2004	12:16	30.68	15.79	14.89	----	
OX007S	11/18/2004	09:02	30.68	16.34	14.34	----	
OX007S	02/15/2005	09:32	30.68	15.45	15.23	----	
OX007S	06/07/2005	20:10	30.68	14.37	16.31	----	
OX008S	10/23/2003	13:47	30.74	16.41	14.33	----	
OX008S	02/19/2004	14:19	30.74	12.96	17.78	----	
OX008S	06/09/2004	09:09	30.74	14.81	15.93	----	
OX008S	08/10/2004	12:15	30.74	15.96	14.78	----	
OX008S	11/18/2004	08:23	30.74	16.52	14.22	----	
OX008S	02/15/2005	09:35	30.74	15.63	15.11	----	
OX008S	06/07/2005	19:45	30.74	14.63	16.11	----	
OX009S	08/10/2004	12:12	31.14	16.92	14.22		Reference elevation July 2004
OX009S	02/15/2005	10:15	31.14	16.61	14.53		
OX009S	06/07/2005	19:37	31.14	15.84	15.30		
Deep Wells:							
B2	08/11/1993	10:02	30.31	25.44	4.87	----	Slight sheen, slight to mod solvent-like odor
B2	10/26/1993	13:32	30.31	25.25	5.06	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
B2	11/17/1993	13:32	30.31	25.23	5.08	----	
B2	12/17/1993	12:59	30.31	23.88	6.43	----	
B2	01/17/1994	13:12	30.31	23.99	6.32	----	
B2	02/18/1994	14:20	30.31	23.73	6.58	----	
B2	03/18/1994	12:59	30.31	23.15	7.16	----	
B2	04/18/1994	14:42	30.31	24.35	5.96	----	
B2	05/18/1994	15:22	30.31	23.12	7.19	----	
B2	06/17/1994	14:54	30.31	22.90	7.41	----	
B2	07/19/1994	09:20	30.31	24.38	5.93	----	
B2	08/17/1994	07:35	30.31	25.22	5.09	----	
B2	09/16/1994	07:27	30.31	25.89	4.42	----	
B2	10/17/1994	09:03	30.31	25.43	4.88	----	
B2	11/21/1994	11:51	30.31	24.56	5.75	----	
B2	12/19/1994	11:10	30.31	21.82	8.49	----	
B2	01/18/1995	11:18	30.31	18.93	11.38	----	
B2	02/21/1995	13:23	30.31	17.12	13.19	----	
B2	03/21/1995	13:05	30.31	20.37	9.94	----	
B2	04/19/1995	12:48	30.31	21.21	9.10	----	
B2	05/19/1995	13:38	30.31	19.30	11.01	----	
B2	07/17/1995	13:55	30.31	22.72	7.59	----	
B2	08/22/1995	07:53	30.31	24.42	5.89	----	
B2	09/22/1995	08:28	30.31	25.28	5.03	----	
B2	11/20/1995	07:57	30.31	22.02	8.29	----	
B2	12/01/1995	08:29	30.31	13.63	16.68	----	
B2	12/19/1995	07:26	30.31	15.57	14.74	----	
B2	01/19/1996	08:38	30.31	16.48	13.83	----	
B2	02/20/1996	10:42	30.31	10.63	19.68	----	
B2	03/19/1996	09:23	30.31	16.61	13.70	----	
B2	04/19/1996	11:53	30.31	16.20	14.11	----	
B2	07/22/1996	14:24	30.31	22.29	8.02	----	
B2	08/20/1996	14:20	30.31	23.43	6.88	----	
B2	09/24/1996	08:11	30.31	24.30	6.01	----	
B2	10/28/1996	11:09	30.31	23.76	6.55	----	
B2	12/13/1996	10:47	30.31	16.70	13.61	----	
B2	03/25/1997	12:02	30.31	15.85	14.46	----	
B2	03/31/1997	09:27	30.31	14.91	15.40	----	
B2	07/16/1997	07:45	30.31	19.91	10.40	----	
B2	10/21/1997	16:30	30.31	23.56	6.75	----	
B2	01/27/1998	12:06	30.31	19.32	10.99	----	
B2	05/18/1998	17:54	30.31	18.80	11.51	----	
B2	08/17/1998	10:23	30.31	24.38	5.93	----	
B2	11/13/1998	10:17	30.31	25.33	4.98	----	
B2	02/16/1999	13:34	30.31	19.64	10.67	----	
B2	05/18/1999	15:50	30.31	19.04	11.27	----	
B2	09/21/1999	12:18	30.31	25.34	4.97	----	
B2	12/06/1999	14:39	30.31	20.25	10.06	----	
B2	02/16/2000	10:56	30.31	20.57	9.74	----	
B2	05/23/2000	17:33	30.31	20.99	9.32	----	
B2	08/29/2000	14:20	30.31	25.38	4.93	----	
B2	11/09/2000	13:29	30.31	25.31	5.00	----	
B2	02/12/2001	15:27	30.31	24.62	5.69	----	
B2	06/04/2001	13:04	30.31	24.84	5.47	----	
B2	08/16/2001	11:58	30.31	26.75	3.56	----	
B2	11/28/2001	12:46	30.31	24.14	6.17	----	
B2	02/27/2002	14:35	30.31	22.90	7.41	----	
B2	06/27/2002	15:07	30.31	20.16	10.15	----	
B2	08/26/2002	17:01	30.31	25.32	4.99	----	
B2	11/13/2002	09:03	30.31	25.28	5.03	----	
B2	02/11/2003	10:14	30.31	23.58	6.73	----	
B2	05/08/2003	08:13	30.31	21.33	8.98	----	
B2	08/27/2003	15:32	30.31	24.25	6.06	----	
B2	10/23/2003	14:08	30.31	25.85	4.46	----	
B2	02/19/2004	14:12	30.31	22.21	8.10	----	
B2	06/09/2004	09:02	30.31	21.45	8.86	----	
B2	08/10/2004	08:50	30.31	25.73	4.58	----	
B2	08/10/2004	10:29	30.31	25.96	4.35	----	
B2	11/18/2004	08:13	30.31	25.08	5.23	----	
B2	02/15/2005	10:09	30.31	24.50	5.81	----	
B2	06/07/2005	19:28	30.31	22.72	7.59	----	
G1A	03/25/1997	11:55	29.72	14.84	14.88	----	
G1A	03/31/1997	09:11	29.72	14.28	15.44	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
G1A	07/16/1997	07:33	29.72	18.94	10.78	----	
G1A	10/21/1997	16:18	29.72	22.44	7.28	----	
G1A	01/27/1998	11:46	29.72	18.42	11.30	----	
G1A	05/18/1998	17:31	29.72	18.05	11.67	----	
G1A	08/17/1998	10:07	29.72	23.35	6.37	----	
G1A	11/13/1998	09:54	29.72	24.59	5.13	----	
G1A	02/16/1999	13:14	29.72	18.28	11.44	----	
G1A	05/18/1999	14:51	29.72	18.42	11.30	----	
G1A	09/21/1999	11:29	29.72	24.32	5.40	----	
G1A	12/06/1999	14:05	29.72	19.82	9.90	----	
G1A	02/16/2000	10:18	29.72	19.81	9.91	----	
G1A	05/23/2000	16:31	29.72	20.08	9.64	----	Replaced lock and tubing
G1A	08/29/2000	13:13	29.72	24.36	5.36	----	
G1A	11/09/2000	12:32	29.72	24.85	4.87	----	
G1A	02/12/2001	16:01	29.72	24.08	5.64	----	
G1A	06/04/2001	11:40	29.72	24.10	5.62	----	
G1A	08/16/2001	10:52	29.72	25.51	4.21	----	
G1A	11/28/2001	11:32	29.72	23.84	5.88	----	
G1A	02/27/2002	13:39	29.72	21.96	7.76	----	
G1A	06/27/2002	14:17	29.72	19.48	10.24	----	
G1A	08/26/2002	16:06	29.72	24.36	5.36	----	
G1A	11/13/2002	07:35	29.72	24.60	5.12	----	
G1A	02/11/2003	08:59	29.72	22.32	7.40	----	
G1A	05/08/2003	06:58	29.72	20.51	9.21	----	
G1A	08/27/2003	13:36	29.72	24.16	5.56	----	
G1A	10/23/2003	12:37	29.72	25.20	4.52	----	
G1A	02/19/2004	12:57	29.72	21.51	8.21	----	
G1A	06/09/2004	07:55	29.72	20.91	8.81	----	
G1A	08/10/2004	08:46	29.72	25.07	4.65	----	
G1A	08/10/2004	10:25	29.72	25.24	4.48	----	
G1A	11/18/2004	08:09	29.72	24.56	5.16	----	
G1A	02/15/2005	09:53	29.72	23.62	6.10	----	
G1A	06/07/2005	17:56	29.72	22.00	7.72	----	
J2	03/25/1997	12:18	29.65	15.22	14.43	----	
J2	03/31/1997	11:21	29.65	14.38	15.27	----	
J2	07/16/1997	08:24	29.65	19.28	10.37	----	
J2	10/21/1997	17:00	29.65	23.02	6.63	----	
J2	01/27/1998	13:19	29.65	18.69	10.96	----	
J2	05/18/1998	18:00	29.65	18.14	11.51	----	
J2	08/17/1998	10:21	29.65	23.70	5.95	----	
J2	11/13/1998	10:28	29.65	24.64	5.01	----	
J2	02/16/1999	13:40	29.65	19.00	10.65	----	
J2	05/18/1999	15:46	29.65	18.40	11.25	----	
J2	09/21/1999	12:30	29.65	24.73	4.92	----	
J2	12/06/1999	15:08	29.65	19.53	10.12	----	
J2	02/16/2000	11:07	29.65	19.89	9.76	----	
J2	05/23/2000	17:28	29.65	20.33	9.32	----	
J2	08/29/2000	14:15	29.65	24.67	4.98	----	
J2	11/09/2000	13:26	29.65	24.66	4.99	----	
J2	02/12/2001	15:23	29.65	23.92	5.73	----	
J2	06/04/2001	13:02	29.65	24.17	5.48	----	
J2	08/16/2001	11:51	29.65	25.57	4.08	----	
J2	11/28/2001	12:36	29.65	23.45	6.20	----	
J2	02/27/2002	14:31	29.65	22.21	7.44	----	
J2	06/27/2002	15:03	29.65	19.48	10.17	----	
J2	08/26/2002	16:56	29.65	24.67	4.98	----	
J2	11/13/2002	08:59	29.65	24.60	5.05	----	
J2	02/11/2003	10:19	29.65	22.95	6.70	----	
J2	05/08/2003	08:16	29.65	20.65	9.00	----	
J2	08/27/2003	14:48	29.65	24.12	5.53	----	
J2	10/23/2003	13:54	29.65	25.18	4.47	----	
J2	02/19/2004	14:17	29.65	21.52	8.13	----	
J2	06/09/2004	09:07	29.65	20.76	8.89	----	
J2	08/10/2004	08:40	29.65	25.00	4.65	----	
J2	08/10/2004	10:27	29.65	25.24	4.41	----	
J2	11/18/2004	08:20	29.65	24.39	5.26	----	
J2	02/15/2005	09:52	29.65	23.44	6.21	----	
J2	06/07/2005	17:20	29.65	22.07	7.58	----	
J3	03/25/1997	12:20	29.58	14.70	14.88	----	
J3	03/31/1997	11:25	29.58	14.03	15.55	----	
J3	07/16/1997	08:25	29.58	18.91	10.67	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
J3	10/21/1997	17:02	29.58	22.37	7.21	----	
J3	01/27/1998	13:21	29.58	18.28	11.30	----	
J3	05/18/1998	17:58	29.58	17.84	11.74	----	
J3	08/17/1998	10:22	29.58	23.12	6.46	----	
J3	11/13/1998	10:26	29.58	24.14	5.44	----	
J3	02/16/1999	13:41	29.58	18.32	11.26	----	
J3	05/18/1999	15:48	29.58	18.01	11.57	----	
J3	09/21/1999	12:31	29.58	24.12	5.46	----	
J3	12/06/1999	15:09	29.58	19.31	10.27	----	
J3	02/16/2000	10:07	29.58	19.50	10.08	----	
J3	05/23/2000	17:29	29.58	19.86	9.72	----	
J3	08/29/2000	14:17	29.58	24.05	5.53	----	
J3	11/09/2000	13:27	29.58	24.24	5.34	----	
J3	02/12/2001	15:24	29.58	23.45	6.13	----	
J3	06/04/2001	12:44	29.58	23.62	5.96	----	
J3	08/16/2001	11:50	29.58	24.98	4.60	----	
J3	11/28/2001	12:37	29.58	22.98	6.60	----	
J3	02/27/2002	14:32	29.58	21.52	8.06	----	
J3	06/27/2002	15:04	29.58	19.14	10.44	----	
J3	08/26/2002	16:57	29.58	23.99	5.59	----	
J3	11/13/2002	08:58	29.58	24.10	5.48	----	
J3	02/11/2003	10:20	29.58	22.28	7.30	----	
J3	05/08/2003	08:17	29.58	20.16	9.42	----	
J3	08/27/2003	14:49	29.58	23.60	5.98	----	
J3	10/23/2003	13:56	29.58	24.70	4.88	----	
J3	02/19/2004	14:16	29.58	21.18	8.40	----	
J3	06/09/2004	09:06	29.58	20.40	9.18	----	
J3	08/10/2004	08:41	29.58	24.50	5.08	----	
J3	08/10/2004	10:28	29.58	24.67	4.91	----	
J3	11/18/2004	08:17	29.58	23.86	5.72	----	
J3	06/07/2005	17:25	29.58	21.61	7.97	----	
O	03/25/1997	11:40	32.03	17.01	15.02	----	
O	03/31/1997	08:48	32.03	16.39	15.64	----	
O	07/16/1997	07:05	32.03	21.93	10.10	----	
O	10/21/1997	16:01	32.03	22.23	9.80	----	
O	01/27/1998	11:03	32.03	20.51	11.52	----	
O	05/18/1998	17:14	32.03	20.25	11.78	----	
O	08/17/1998	10:13	32.03	25.42	6.61	----	
O	11/13/1998	09:31	32.03	26.49	5.54	----	
O	02/16/1999	12:45	32.03	20.25	11.78	----	
O	05/18/1999	14:36	32.03	21.23	10.80	----	
O	09/21/1999	11:09	32.03	26.22	5.81	----	
O	12/06/1999	13:48	32.03	21.90	10.13	----	
O	02/16/2000	10:04	32.03	22.21	9.82	----	
O	05/23/2000	16:15	32.03	22.18	9.85	----	
O	08/29/2000	12:56	32.03	26.49	5.54	----	
O	11/09/2000	12:18	32.03	27.01	5.02	----	
O	02/12/2001	15:52	32.03	26.12	5.91	----	
O	06/04/2001	11:22	32.03	26.08	5.95	----	
O	08/16/2001	10:22	32.03	27.58	4.45	----	
O	11/28/2001	11:18	32.03	26.15	5.88	----	
O	02/27/2002	13:15	32.03	24.08	7.95	----	
O	06/27/2002	14:09	32.03	21.29	10.74	----	
O	08/26/2002	15:47	32.03	25.91	6.12	----	
O	11/13/2002	07:21	32.03	26.56	5.47	----	
O	02/11/2003	08:38	32.03	22.81	9.22	----	
O	05/08/2003	06:44	32.03	22.70	9.33	----	
O	08/27/2003	13:23	32.03	26.43	5.60	----	
O	10/23/2003	12:02	32.03	27.11	4.92	----	
O	02/19/2004	12:15	32.03	23.71	8.32	----	
O	06/09/2004	07:32	32.03	22.76	9.27	----	
O	08/10/2004	08:23	32.03	26.51	5.52	----	
O	08/10/2004	10:02	32.03	26.52	5.51	----	
O	11/18/2004	07:33	32.03	26.13	5.90	----	
O	06/07/2005	17:06	32.03	23.68	8.35	----	
R	03/25/1997	11:36	30.47	15.56	14.91	----	
R	03/31/1997	08:43	30.47	14.85	15.62	----	
R	07/16/1997	07:00	30.47	20.37	10.10	----	
R	10/21/1997	15:56	30.47	22.54	7.93	----	
R	01/27/1998	10:57	30.47	18.98	11.49	----	
R	05/18/1998	17:15	30.47	18.73	11.74	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
R	08/17/1998	10:12	30.47	23.93	6.54	----	
R	11/13/1998	09:35	30.47	25.17	5.30	----	
R	02/16/1999	13:05	30.47	18.79	11.68	----	
R	05/18/1999	14:37	30.47	19.64	10.83	----	
R	09/21/1999	11:15	30.47	24.53	5.94	----	
R	12/06/1999	13:46	30.47	20.33	10.14	----	
R	02/16/2000	10:12	30.47	20.65	9.82	----	
R	05/23/2000	16:17	30.47	20.64	9.83	----	
R	08/29/2000	12:58	30.47	24.97	5.50	----	
R	11/09/2000	12:20	30.47	25.47	5.00	----	
R	02/12/2001	15:54	30.47	24.46	6.01	----	
R	06/04/2001	11:36	30.47	24.53	5.94	----	
R	08/16/2001	10:35	30.47	26.02	4.45	----	
R	11/28/2001	11:19	30.47	24.57	5.90	----	
R	02/27/2002	13:17	30.47	22.50	7.97	----	
R	06/27/2002	14:08	30.47	19.75	10.72	----	
R	08/26/2002	15:58	30.47	24.38	6.09	----	
R	11/13/2002	07:22	30.47	25.04	5.43	----	
R	02/11/2003	08:41	30.47	21.22	9.25	----	
R	05/08/2003	06:46	30.47	21.14	9.33	----	
R	08/27/2003	13:25	30.47	24.91	5.56	----	
R	10/23/2003	11:56	30.47	25.60	4.87	----	
R	02/19/2004	12:05	30.47	22.15	8.32	----	
R	06/09/2004	07:30	30.47	21.21	9.26	----	
R	08/10/2004	08:21	30.47	24.99	5.48	----	
R	08/10/2004	10:00	30.47	24.99	5.48	----	
R	11/18/2004	07:34	30.47	24.61	5.86	----	
R	06/07/2005	17:46	30.47	22.11	8.36	----	
LW001D	03/31/1997	11:11	28.31	12.71	15.60	----	
LW001D	07/16/1997	08:12	28.31	17.65	10.66	----	
LW001D	10/21/1997	16:55	28.31	21.29	7.02	----	
LW001D	01/27/1998	13:07	28.31	17.06	11.25	----	
LW001D	05/18/1998	17:39	28.31	16.53	11.78	----	
LW001D	08/17/1998	10:30	28.31	21.82	6.49	----	
LW001D	11/13/1998	10:01	28.31	22.77	5.54	----	
LW001D	02/16/1999	13:21	28.31	17.30	11.01	----	
LW001D	05/18/1999	15:36	28.31	16.76	11.55	----	
LW001D	09/21/1999	12:12	28.31	22.91	5.40	----	
LW001D	12/06/1999	14:34	28.31	18.00	10.31	----	
LW001D	02/16/2000	10:49	28.31	18.16	10.15	----	
LW001D	05/23/2000	17:19	28.31	18.62	9.69	----	
LW001D	08/29/2000	13:59	28.31	22.81	5.50	----	
LW001D	11/09/2000	13:20	28.31	22.98	5.33	----	
LW001D	02/12/2001	15:35	28.31	22.23	6.08	----	
LW001D	06/04/2001	12:23	28.31	22.36	5.95	----	
LW001D	08/16/2001	11:38	28.31	23.73	4.58	----	
LW001D	11/28/2001	12:29	28.31	21.73	6.58	----	
LW001D	02/27/2002	14:17	28.31	20.31	8.00	----	
LW001D	06/27/2002	14:49	28.31	17.81	10.50	----	
LW001D	08/26/2002	17:12	28.31	22.85	5.46	----	
LW001D	11/13/2002	09:08	28.31	22.91	5.40	----	
LW001D	02/11/2003	10:27	28.31	21.11	7.20	----	
LW001D	05/08/2003	08:19	28.31	18.91	9.40	----	
LW001D	08/27/2003	14:50	28.31	22.40	5.91	----	
LW001D	10/23/2003	13:57	28.31	23.51	4.80	----	
LW001D	02/19/2004	14:30	28.31	19.91	8.40	----	
LW001D	06/09/2004	09:21	28.31	19.13	9.18	----	
LW001D	08/10/2004	08:45	28.31	23.30	5.01	----	
LW001D	08/10/2004	10:27	28.31	23.50	4.81	----	
LW001D	11/18/2004	08:27	28.31	22.69	5.62	----	
LW001D	02/15/2005	09:21	28.31	21.98	6.33	----	
LW001D	06/07/2005	19:10	28.31	20.44	7.87	----	
LW003D	03/31/1997	11:45	30.80	19.38	11.42	----	Time estimated
LW003D	07/16/1997	08:38	30.80	28.09	2.71	----	
LW003D	10/21/1997	17:07	30.80	23.36	7.44	----	
LW003D	01/27/1998	13:30	30.80	21.66	9.14	----	
LW003D	05/18/1998	17:35	30.80	19.21	11.59	----	
LW003D	08/17/1998	10:24	30.80	24.62	6.18	----	
LW003D	11/13/1998	09:03	30.80	25.56	5.24	----	
LW003D	02/16/1999	13:44	30.80	20.00	10.80	----	
LW003D	05/18/1999	15:58	30.80	19.42	11.38	----	Purged dry at 11:00

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW003D	09/21/1999	10:40	30.80	25.76	5.04	----	
LW003D	12/06/1999	14:45	30.80	20.69	10.11	----	
LW003D	02/16/2000	09:54	30.80	20.98	9.82	----	
LW003D	05/23/2000	14:40	30.80	21.16	9.64	----	Purged dry at 13:10
LW003D	08/29/2000	14:36	30.80	----	----	----	Well purged dry 8/28; sampled a.m. on 8/29
LW003D	11/09/2000	----	30.80	----	----	----	Well sampled 11/8/00 - water level not representative
LW003D	02/12/2001	15:11	30.80	24.85	5.95	----	
LW003D	06/04/2001	12:35	30.80	25.09	5.71	----	
LW003D	08/16/2001	11:47	30.80	26.43	4.37	----	
LW003D	11/28/2001	12:42	30.80	24.48	6.32	----	
LW003D	02/27/2002	14:20	30.80	23.13	7.67	----	
LW003D	06/27/2002	14:59	30.80	20.55	10.25	----	
LW003D	08/26/2002	17:03	30.80	25.63	5.17	----	
LW003D	11/13/2002	09:20	30.80	25.57	5.23	----	
LW003D	02/11/2003	10:40	30.80	24.03	6.77	----	
LW003D	05/08/2003	08:29	30.80	21.68	9.12	----	
LW003D	08/27/2003	15:04	30.80	25.10	5.70	----	
LW003D	10/23/2003	13:49	30.80	26.18	4.62	----	
LW003D	02/19/2004	14:21	30.80	22.65	8.15	----	
LW003D	06/09/2004	09:29	30.80	21.82	8.98	----	
LW003D	08/10/2004	08:39	30.80	25.95	4.85	----	
LW003D	08/10/2004	10:25	30.80	26.10	4.70	----	
LW003D	11/18/2004	08:24	30.80	25.42	5.38	----	
LW003D	02/15/2005	09:40	30.80	25.06	5.74	----	
LW003D	06/07/2005	19:40	30.80	23.12	7.68	----	
LW004D	03/31/1997	09:18	30.17	14.73	15.44	----	
LW004D	07/16/1997	07:42	30.17	19.43	10.74	----	
LW004D	10/21/1997	16:27	30.17	23.02	7.15	----	
LW004D	01/27/1998	11:56	30.17	18.84	11.33	----	
LW004D	05/18/1998	17:33	30.17	18.54	11.63	----	
LW004D	08/17/1998	10:18	30.17	23.81	6.36	----	
LW004D	11/13/1998	09:57	30.17	24.99	5.18	----	
LW004D	02/16/1999	13:17	30.17	18.79	11.38	----	
LW004D	05/18/1999	15:04	30.17	18.77	11.40	----	Completed sampling at 13:40
LW004D	09/21/1999	11:41	30.17	24.78	5.39	----	
LW004D	12/06/1999	14:18	30.17	20.21	9.96	----	
LW004D	02/16/2000	10:30	30.17	20.23	9.94	----	
LW004D	05/23/2000	16:54	30.17	20.55	9.62	----	
LW004D	08/29/2000	13:38	30.17	24.78	5.39	----	
LW004D	11/09/2000	12:52	30.17	25.19	4.98	----	
LW004D	02/12/2001	16:39	30.17	24.71	5.46	----	
LW004D	06/04/2001	12:07	30.17	24.66	5.51	----	
LW004D	08/16/2001	11:15	30.17	26.27	3.90	----	
LW004D	11/28/2001	12:04	30.17	24.41	5.76	----	
LW004D	02/27/2002	14:00	30.17	22.65	7.52	----	
LW004D	03/05/2002	11:36	30.17	22.94	7.23	----	
LW004D	04/05/2002	08:19	30.17	23.75	6.42	----	
LW004D	05/29/2002	00:00	30.17	20.48	9.69	----	
LW004D	06/27/2002	14:41	30.17	20.15	10.02	----	
LW004D	08/26/2002	16:32	30.17	25.02	5.15	----	
LW004D	11/13/2002	08:23	30.17	25.26	4.91	----	
LW004D	02/11/2003	09:32	30.17	23.08	7.09	----	
LW004D	05/08/2003	07:44	30.17	21.21	8.96	----	
LW004D	08/27/2003	14:01	30.17	24.78	5.39	----	
LW004D	10/23/2003	13:16	30.17	25.85	4.32	----	
LW004D	02/19/2004	13:45	30.17	22.14	8.03	----	
LW004D	06/09/2004	08:32	30.17	21.60	8.57	----	
LW004D	08/10/2004	08:24	30.17	25.68	4.49	----	
LW004D	08/10/2004	10:09	30.17	25.87	4.30	----	
LW004DR	11/24/2004	11:00	30.11	26.23	3.88	----	Replacement well installed 11/19/04
LW004DR	02/15/2005	10:20	30.11	23.94	6.17	----	
LW004DR	06/07/2005	18:53	30.17	22.83	7.34	----	
LW006D	03/25/1997	11:52	30.84	16.51	14.33	----	
LW006D	03/31/1997	09:05	30.84	15.53	15.31	----	Faint odor
LW006D	07/16/1997	07:30	30.84	20.74	10.10	----	
LW006D	10/21/1997	16:16	30.84	24.05	6.79	----	
LW006D	01/27/1998	11:38	30.84	19.94	10.90	----	
LW006D	05/18/1998	17:28	30.84	19.36	11.48	----	
LW006D	08/17/1998	10:05	30.84	24.92	5.92	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW006D	11/13/1998	09:50	30.84	25.94	4.90	----	
LW006D	02/16/1999	13:11	30.84	20.40	10.44	----	
LW006D	05/18/1999	14:53	30.84	19.81	11.03	----	
LW006D	09/21/1999	11:32	30.84	25.92	4.92	----	
LW006D	12/06/1999	14:09	30.84	20.86	9.98	----	
LW006D	02/16/2000	10:20	30.84	21.27	9.57	----	
LW006D	05/23/2000	16:35	30.84	21.64	9.20	----	
LW006D	08/29/2000	13:20	30.84	25.93	4.91	----	
LW006D	11/09/2000	12:35	30.84	26.21	4.63	----	
LW006D	02/12/2001	16:03	30.84	25.37	5.47	----	
LW006D	06/04/2001	11:42	30.84	25.30	5.54	----	
LW006D	08/16/2001	10:54	30.84	26.72	4.12	----	
LW006D	11/28/2001	11:46	30.84	24.92	5.92	----	
LW006D	02/27/2002	13:35	30.84	23.62	7.22	----	
LW006D	06/27/2002	14:19	30.84	20.68	10.16	----	
LW006D	08/26/2002	16:04	30.84	25.79	5.05	----	
LW006D	11/13/2002	07:42	30.84	25.82	5.02	----	
LW006D	02/11/2003	09:01	30.84	24.08	6.76	----	
LW006D	05/08/2003	07:01	30.84	21.97	8.87	----	
LW006D	08/27/2003	13:40	30.84	25.37	5.47	----	
LW006D	10/23/2003	12:31	30.84	26.47	4.37	----	
LW006D	02/19/2004	12:37	30.84	23.00	7.84	----	
LW006D	06/09/2004	08:00	30.84	21.90	8.94	----	
LW006D	08/10/2004	08:42	30.84	26.22	4.62	----	
LW006D	08/10/2004	10:20	30.84	26.43	4.41	----	
LW006D	11/18/2004	07:51	30.84	25.61	5.23	----	
LW006D	02/15/2005	09:20	30.84	24.74	6.10	----	
LW006D	06/07/2005	17:25	30.84	23.50	7.34	----	
LW009D	05/18/1999	14:56	30.98	20.02	10.96	----	
LW009D	09/21/1999	11:34	30.98	25.23	5.75	----	
LW009D	12/06/1999	14:11	30.98	21.04	9.94	----	
LW009D	02/16/2000	10:23	30.98	21.17	9.81	----	
LW009D	05/23/2000	16:39	30.98	21.15	9.83	----	
LW009D	08/29/2000	13:27	30.98	25.36	5.62	----	
LW009D	11/09/2000	12:43	30.98	25.96	5.02	----	
LW009D	02/12/2001	16:11	30.98	25.13	5.85	----	
LW009D	06/04/2001	11:49	30.98	25.15	5.83	----	
LW009D	08/16/2001	11:02	30.98	26.57	4.41	----	
LW009D	11/28/2001	11:53	30.98	25.40	5.58	----	
LW009D	02/27/2002	13:47	30.98	22.97	8.01	----	
LW009D	06/27/2002	14:25	30.98	20.38	10.60	----	
LW009D	08/26/2002	16:11	30.98	24.90	6.08	----	
LW009D	11/13/2002	07:48	30.98	25.73	5.25	----	
LW009D	02/11/2003	09:07	30.98	22.03	8.95	----	
LW009D	05/08/2003	07:12	30.98	21.65	9.33	----	
LW009D	08/27/2003	13:47	30.98	25.50	5.48	----	
LW009D	10/23/2003	12:50	30.98	26.22	4.76	----	
LW009D	02/19/2004	13:02	30.98	22.55	8.43	----	
LW009D	06/09/2004	08:11	30.98	21.91	9.07	----	
LW009D	08/10/2004	08:14	30.98	25.49	5.49	----	
LW009D	08/10/2004	09:59	30.98	25.54	5.44	----	
LW009D	11/18/2004	07:44	30.98	25.36	5.62	----	
LW009D	02/15/2005	09:24	30.98	24.46	6.52	----	
LW009D	06/07/2005	17:20	30.98	22.68	8.30	----	
LW010D	05/18/1999	15:00	31.12	19.82	11.30	----	
LW010D	09/21/1999	11:37	31.12	25.81	5.31	----	
LW010D	12/06/1999	14:15	31.12	21.18	9.94	----	
LW010D	02/16/2000	10:27	31.12	21.20	9.92	----	
LW010D	05/23/2000	16:42	31.12	21.51	9.61	----	
LW010D	08/29/2000	13:29	31.12	25.86	5.26	----	
LW010D	11/09/2000	12:46	31.12	26.26	4.86	----	
LW010D	02/12/2001	16:15	31.12	25.63	5.49	----	
LW010D	06/04/2001	11:52	31.12	25.62	5.50	----	
LW010D	08/16/2001	11:04	31.12	27.16	3.96	----	
LW010D	11/28/2001	11:55	31.12	25.46	5.66	----	
LW010D	02/27/2002	13:49	31.12	23.58	7.54	----	
LW010D	06/27/2002	14:29	31.12	21.03	10.09	----	
LW010D	08/26/2002	16:17	31.12	25.91	5.21	----	
LW010D	11/13/2002	08:01	31.12	26.17	4.95	----	
LW010D	02/11/2003	09:21	31.12	23.83	7.29	----	
LW010D	05/08/2003	07:33	31.12	22.10	9.02	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW010D	08/27/2003	13:53	31.12	25.74	5.38	----	
LW010D	10/23/2003	13:10	31.12	26.79	4.33	----	
LW010D	02/19/2004	13:25	31.12	22.98	8.14	----	
LW010D	06/09/2004	08:23	31.12	22.46	8.66	----	
LW010D	08/10/2004	08:16	31.12	26.52	4.60	----	
LW010D	08/10/2004	10:02	31.12	26.70	4.42	----	
LW010D	11/18/2004	07:51	31.12	26.08	5.04	----	
LW010D	02/15/2005	10:07	31.12	25.07	6.05	----	
LW010D	06/07/2005	18:19	31.12	23.53	7.59	----	
LW011D	05/18/1999	15:09	29.04	18.59	10.45	----	
LW011D	09/21/1999	11:50	29.04	20.76	8.28	----	
LW011D	12/06/1999	15:06	29.04	21.81	7.23	----	
LW011D	02/16/2000	11:02	29.04	20.35	8.69	----	
LW011D	05/23/2000	17:37	29.04	19.50	9.54	----	
LW011D	08/29/2000	14:54	29.04	----	----	----	Well purged dry 8/28; sampled a.m. on 8/29
LW011D	11/09/2000		29.04	----	----	----	Well sampled 11/8/00 - water level not representative
LW011D	02/12/2001	15:16	29.04	23.14	5.90	----	
LW011D	06/04/2001	13:11	29.04	23.35	5.69	----	
LW011D	08/16/2001	11:25	29.04	26.94	2.10	----	
LW011D	11/28/2001	12:53	29.04	24.54	4.50	----	
LW011D	02/27/2002	14:57	29.04	21.80	7.24	----	
LW011D	06/27/2002	15:11	29.04	18.84	10.20	----	
LW011D	08/26/2002	16:47	29.04	22.71	6.33	----	
LW011D	11/13/2002	08:55	29.04	23.87	5.17	----	
LW011D	02/11/2003	10:04	29.04	21.79	7.25	----	
LW011D	05/08/2003	08:08	29.04	19.28	9.76	----	
LW011D	08/27/2003	14:34	29.04	23.35	5.69	----	
LW011D	10/23/2003	14:11	29.04	23.98	5.06	----	
LW011D	02/19/2004	14:05	29.04	21.08	7.96	----	
LW011D	06/09/2004	08:55	29.04	20.04	9.00	----	
LW011D	08/10/2004	08:35	29.04	24.17	4.87	----	
LW011D	08/10/2004	10:20	29.04	24.46	4.58	----	
LW011D	11/18/2004	08:11	29.04	23.67	5.37	----	
LW011D	02/15/2005	10:19	29.04	22.02	7.02	----	
LW011D	06/07/2005	19:31	29.04	21.58	7.46	----	
LW012D1	05/18/1999	15:13	30.02	18.45	11.57	----	
LW012D1	09/21/1999	11:54	30.02	24.44	5.58	----	
LW012D1	12/06/1999	14:21	30.02	19.72	10.30	----	
LW012D1	02/16/2000	10:35	30.02	19.89	10.13	----	
LW012D1	05/23/2000	17:00	30.02	20.23	9.79	----	
LW012D1	08/29/2000	13:45	30.02	24.38	5.64	----	
LW012D1	11/09/2000	13:00	30.02	24.66	5.36	----	
LW012D1	02/12/2001	15:57	30.02	23.92	6.10	----	
LW012D1	06/04/2001	12:32	30.02	23.99	6.03	----	
LW012D1	08/16/2001	11:42	30.02	25.39	4.63	----	
LW012D1	11/28/2001	12:38	30.02	23.33	6.69	----	
LW012D1	02/27/2002	14:28	30.02	21.88	8.14	----	
LW012D1	06/27/2002	14:57	30.02	19.58	10.44	----	
LW012D1							Abandoned August 2003
LW012D2	05/18/1999	15:14	29.24	18.23	11.01	----	
LW012D2	09/21/1999	11:53	29.24	24.69	4.55	----	
LW012D2	12/06/1999	14:22	29.24	19.40	9.84	----	
LW012D2	02/16/2000	10:36	29.24	19.90	9.34	----	
LW012D2	05/23/2000	16:59	29.24	20.38	8.86	----	
LW012D2	08/29/2000	13:44	29.24	24.68	4.56	----	
LW012D2	11/09/2000	13:01	29.24	24.56	4.68	----	
LW012D2	02/12/2001	15:56	29.24	23.88	5.36	----	
LW012D2	06/04/2001	12:31	29.24	24.10	5.14	----	
LW012D2	08/16/2001	11:43	29.24	25.43	3.81	----	
LW012D2	11/28/2001	12:39	29.24	23.17	6.07	----	
LW012D2	02/27/2002	14:29	29.24	22.38	6.86	----	
LW012D2	06/27/2002	14:58	29.24	19.44	9.80	----	
LW012D2							Abandoned August 2003
LW014D	05/23/2000	16:50	30.54	21.26	9.28	----	
LW014D	08/29/2000	13:35	30.54	25.68	4.86	----	
LW014D	11/09/2000	12:49	30.54	25.90	4.64	----	
LW014D	02/12/2001	16:20	30.54	25.33	5.21	----	
LW014D	06/04/2001	12:00	30.54	25.37	5.17	----	
LW014D	08/16/2001	11:08	30.54	27.00	3.54	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW014D	11/28/2001	11:56	30.54	25.03	5.51	----	
LW014D	02/27/2002	13:55	30.54	23.57	6.97	----	
LW014D	06/27/2002	14:33	30.54	20.70	9.84	----	
LW014D	08/26/2002	16:26	30.54	25.90	4.64	----	
LW014D	11/13/2002	08:07	30.54	25.76	4.78	----	
LW014D	02/11/2003	09:27	30.54	24.33	6.21	----	
LW014D	05/08/2003	07:38	30.54	21.92	8.62	----	
LW014D	08/27/2003	13:56	30.54	25.32	5.22	----	
LW014D	10/23/2003	13:13	30.54	26.56	3.98	----	
LW014D	02/19/2004	13:30	30.54	22.86	7.68	----	
LW014D	06/09/2004	08:27	30.54	22.11	8.43	----	
LW014D	08/10/2004	08:20	30.54	26.29	4.25	----	
LW014D	08/10/2004	10:05	30.54	26.58	3.96	----	
LW014D	11/18/2004	07:57	30.54	25.74	4.80	----	
LW014D	02/15/2005	10:03	30.54	24.61	5.93	----	
LW014D	06/07/2005	18:25	30.54	23.51	7.03	----	
LW015D	05/23/2000	16:49	30.85	21.26	9.59	----	
LW015D	08/29/2000	13:34	30.85	25.54	5.31	----	
LW015D	11/09/2000	12:48	30.85	25.98	4.87	----	
LW015D	02/12/2001	16:18	30.85	25.43	5.42	----	
LW015D	06/04/2001	11:59	30.85	25.41	5.44	----	
LW015D	08/16/2001	11:07	30.85	27.05	3.80	----	
LW015D	11/28/2001	11:55	30.85	25.29	5.56	----	
LW015D	02/27/2002	13:52	30.85	23.42	7.43	----	
LW015D	06/27/2002	14:32	30.85	20.91	9.94	----	
LW015D	08/26/2002	16:25	30.85	25.77	5.08	----	
LW015D	11/13/2002	08:05	30.85	26.04	4.81	----	
LW015D	02/11/2003	09:23	30.85	23.65	7.20	----	
LW015D	05/08/2003	07:37	30.85	21.95	8.90	----	
LW015D	08/27/2003	13:55	30.85	25.58	5.27	----	
LW015D	10/23/2003	13:12	30.85	26.61	4.24	----	
LW015D	02/19/2004	13:30	30.85	22.83	8.02	----	
LW015D	06/09/2004	08:25	30.85	22.36	8.49	----	
LW015D	08/10/2004	08:19	30.85	26.43	4.42	----	
LW015D	08/10/2004	10:04	30.85	26.61	4.24	----	
LW015D	11/18/2004	07:55	30.85	25.98	4.87	----	
LW015D	06/07/2005	18:30	30.85	23.38	7.47	----	
LW016D	05/23/2000	16:48	28.40	18.79	9.61	----	
LW016D	08/29/2000	13:32	28.40	23.07	5.33	----	
LW016D	11/09/2000	12:47	28.40	23.59	4.81	----	
LW016D	02/12/2001	16:17	28.40	22.94	5.46	----	
LW016D	06/04/2001	11:57	28.40	23.00	5.40	----	
LW016D	08/16/2001	11:05	28.40	24.43	3.97	----	
LW016D	11/28/2001	11:57	28.40	22.87	5.53	----	
LW016D	02/27/2002	13:54	28.40	20.94	7.46	----	
LW016D	06/27/2002	14:31	28.40	18.46	9.94	----	
LW016D	08/26/2002	16:23	28.40	23.24	5.16	----	
LW016D	11/13/2002	08:08	28.40	23.45	4.95	----	
LW016D	02/11/2003	09:25	28.40	21.14	7.26	----	
LW016D	05/08/2003	07:36	28.40	19.65	8.75	----	
LW016D	08/27/2003	13:54	28.40	23.08	5.32	----	
LW016D	10/23/2003	13:11	28.40	24.10	4.30	----	
LW016D	02/19/2004	13:31	28.40	20.30	8.10	----	
LW016D	06/09/2004	08:26	28.40	19.91	8.49	----	
LW016D	08/10/2004	08:17	28.40	23.88	4.52	----	
LW016D	08/10/2004	10:03	28.40	24.08	4.32	----	
LW016D	11/18/2004	07:54	28.40	23.41	4.99	----	
LW016D	06/07/2005	18:35	28.40	20.87	7.53	----	
LW017D	08/29/2000	13:21	27.82	22.96	4.86	----	
LW017D	11/09/2000	12:36	27.82	23.17	4.65	----	
LW017D	02/12/2001	16:04	27.82	22.44	5.38	----	
LW017D	06/04/2001	11:44	27.82	22.42	5.40	----	
LW017D	08/16/2001	10:55	27.82	23.80	4.02	----	
LW017D	11/28/2001	11:50	27.82	22.00	5.82	----	
LW017D	02/27/2002	13:37	27.82	19.82	8.00	----	
LW017D	03/05/2002	11:30	27.82	20.46	7.36	----	
LW017D	04/05/2002	08:15	27.82	21.34	6.48	----	
LW017D	05/29/2002	00:00	27.82	17.90	9.92	----	
LW017D	06/27/2002	14:20	27.82	17.64	10.18	----	
LW017D	08/26/2002	16:07	27.82	22.67	5.15	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW017D	11/13/2002	07:45	27.82	22.80	5.02	----	
LW017D	02/11/2003	09:03	27.82	20.79	7.03	----	
LW017D	05/08/2003	07:05	27.82	18.82	9.00	----	
LW017D	08/27/2003	13:43	27.82	22.38	5.44	----	
LW017D	10/23/2003	12:34	27.82	23.46	4.36	----	
LW017D	02/19/2004	12:52	27.82	19.82	8.00	----	
LW017D	06/09/2004	08:04	27.82	19.00	8.82	----	
LW017D	08/10/2004	08:44	27.82	23.21	4.61	----	
LW017D	08/10/2004	10:23	27.82	23.41	4.41	----	
LW017D	11/18/2004	08:04	27.82	22.69	5.13	----	
LW017D	02/15/2005	09:33	27.82	21.65	6.17	----	
LW017D	06/07/2005	18:00	27.82	20.30	7.52	----	
LW018D	08/29/2000	13:25	27.82	22.79	5.03	----	
LW018D	11/09/2000	12:40	27.82	22.91	4.91	----	
LW018D	02/12/2001	16:10	27.82	22.56	5.26	----	
LW018D	06/04/2001	11:47	27.82	22.28	5.54	----	
LW018D	08/16/2001	11:00	27.82	23.81	4.01	----	
LW018D	11/28/2001	11:51	27.82	22.00	5.82	----	
LW018D	02/27/2002	13:43	27.82	20.44	7.38	----	
LW018D	06/27/2002	14:23	27.82	17.72	10.10	----	
LW018D	08/26/2002	16:13	27.82	21.90	5.92	----	
LW018D	11/13/2002	07:51	27.82	22.71	5.11	----	
LW018D	02/11/2003	09:05	27.82	20.95	6.87	----	
LW018D	05/08/2003	07:10	27.82	18.75	9.07	----	
LW018D	08/27/2003	13:45	27.82	22.41	5.41	----	
LW018D	10/23/2003	12:45	27.82	23.46	4.36	----	
LW018D	02/19/2004	13:10	27.82	19.74	8.08	----	
LW018D	06/09/2004	08:07	27.82	19.45	8.37	----	
LW018D	08/10/2004	08:11	27.82	23.26	4.56	----	
LW018D	08/10/2004	09:54	27.82	23.46	4.36	----	
LW018D	11/18/2004	08:02	27.82	22.87	4.95	----	
LW018D	02/15/2005	09:39	27.82	21.80	6.02	----	
LW018D	06/07/2005	18:10	27.82	20.37	7.45	----	
LW020D	10/23/2003	12:15	29.51	24.86	4.65	----	
LW020D	02/19/2004	14:46	29.51	21.00	8.51	----	
LW020D	06/09/2004	07:48	29.51	20.45	9.06	----	
LW020D	08/10/2004	08:32	29.51	24.70	4.81	----	
LW020D	08/10/2004	10:08	29.51	24.90	4.61	----	
LW020D	11/18/2004	07:48	29.51	24.17	5.34	----	
LW020D	02/15/2005	08:31	29.51	23.45	6.06	----	
LW020D	06/07/2005	19:11	29.51	21.70	7.81	----	
LW022D	10/23/2003	11:58	32.56	27.72	4.84	----	
LW022D	02/19/2004	12:14	32.56	24.44	8.12	----	
LW022D	06/09/2004	07:22	32.56	23.35	9.21	----	
LW022D	08/10/2004	08:16	32.56	27.20	5.36	----	
LW022D	08/10/2004	09:55	32.56	27.21	5.35	----	
LW022D	11/18/2004	07:24	32.56	26.69	5.87	----	
LW022D	02/15/2005	08:55	32.56	26.08	6.48	----	
LW022D	06/07/2005	16:22	32.56	24.36	8.20	----	
LW023D	10/23/2003	12:00	31.41	26.56	4.85	----	
LW023D	02/19/2004	12:13	31.41	23.31	8.10	----	
LW023D	06/09/2004	07:21	31.41	22.24	9.17	----	
LW023D	08/10/2004	08:13	31.41	26.08	5.33	----	
LW023D	08/10/2004	09:53	31.41	26.09	5.32	----	
LW023D	11/18/2004	07:22	31.41	25.58	5.83	----	
LW023D	02/15/2005	09:10	31.41	24.94	6.47	----	
LW023D	06/07/2005	16:25	31.41	23.27	8.14	----	
LW024D	10/23/2003	12:23	33.47	28.61	4.86	----	
LW024D	02/19/2004	12:40	33.47	25.28	8.19	----	
LW024D	06/09/2004	07:57	33.47	24.30	9.17	----	
LW024D	08/10/2004	08:36	33.47	28.02	5.45	----	
LW024D	08/10/2004	10:15	33.47	28.04	5.43	----	
LW024D	11/18/2004	07:54	33.47	27.65	5.82	----	
LW024D	02/15/2005	09:13	33.47	26.99	6.48	----	
LW024D	06/07/2005	17:33	33.47	25.25	8.22	----	
LW025D	10/23/2003	12:28	35.38	30.50	4.88	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW025D	02/19/2004	12:38	35.38	27.25	8.13	----	
LW025D	06/09/2004	07:59	35.38	26.26	9.12	----	
LW025D	08/10/2004	08:40	35.38	29.94	5.44	----	
LW025D	08/10/2004	10:17	35.38	29.96	5.42	----	
LW025D	11/18/2004	07:48	35.38	29.59	5.79	----	
LW025D	02/15/2005	09:16	35.38	28.91	6.47	----	
LW025D	06/07/2005	17:30	35.38	27.25	8.13	----	
LW026D	10/23/2003	12:09	31.49	27.17	4.32	----	
LW026D	02/19/2004	12:22	31.49	23.64	7.85	----	
LW026D	06/09/2004	07:37	31.49	22.67	8.82	----	
LW026D	08/10/2004	08:26	31.49	27.03	4.46	----	
LW026D	08/10/2004	10:05	31.49	27.31	4.18	----	
LW026D	11/18/2004	07:36	31.49	26.49	5.00	----	
LW026D	02/15/2005	10:35	31.49	25.08	6.41	----	
LW026D	06/07/2005	17:44	31.49	24.24	7.25	----	
LW027D	10/23/2003	12:21	29.71	25.47	4.24	----	
LW027D	02/19/2004	12:43	29.71	21.96	7.75	----	
LW027D	06/09/2004	07:38	29.71	20.97	8.74	----	
LW027D	08/10/2004	08:28	29.71	25.34	4.37	----	
LW027D	08/10/2004	10:12	29.71	25.65	4.06	----	
LW027D	11/18/2004	07:38	29.71	24.78	4.93	----	
LW027D	02/15/2005	10:31	29.71	23.39	6.32	----	
LW027D	06/07/2005	17:52	29.71	22.55	7.16	----	
LW029D	10/23/2003	14:40	31.12	26.45	4.67	----	
LW029D	02/19/2004	15:31	31.12	22.55	8.57	----	
LW029D	06/09/2004	09:44	31.12	22.16	8.96	----	
LW029D	08/10/2004	08:28	31.12	26.28	4.84	----	
LW029D	08/10/2004	10:12	31.12	26.52	4.60	----	
LW029D	11/18/2004	08:13	31.12	25.80	5.32	----	
LW029D	02/15/2005	11:33	31.12	24.65	6.47	----	
LW029D	06/07/2005	18:56	31.12	23.42	7.70	----	
LW030D	10/23/2003	14:52	30.06	25.58	4.48	----	
LW030D	02/19/2004	15:33	30.06	21.55	8.51	----	
LW030D	06/09/2004	09:47	30.06	21.21	8.85	----	
LW030D	08/10/2004	08:30	30.06	25.58	4.48	----	
LW030D	08/10/2004	10:14	30.06	25.87	4.19	----	
LW030D	11/18/2004	08:15	30.06	25.01	5.05	----	
LW030D	02/15/2005	11:35	30.06	23.68	6.38	----	
LW030D	06/07/2005	19:00	30.06	22.70	7.36	----	
LW032D	10/23/2003	14:33	30.86	25.23	5.63	----	
LW032D	02/19/2004	15:28	30.86	21.95	8.91	----	
LW032D	06/09/2004	09:59	30.86	21.41	9.45	----	
LW032D	08/10/2004	08:33	30.86	25.24	5.62	----	
LW032D	08/10/2004	10:16	30.86	25.42	5.44	----	
LW032D	11/18/2004	08:18	30.86	24.63	6.23	----	
LW032D	02/15/2005	10:57	30.86	23.78	7.08	----	
LW032D	06/07/2005	19:03	30.86	22.61	8.25	----	
LW035D	10/23/2003	11:48	33.19	28.33	4.86	----	
LW035D	02/19/2004	12:34	33.19	24.86	8.33	----	
LW035D	06/09/2004	07:24	33.19	23.88	9.31	----	
LW035D	08/10/2004	08:19	33.19	27.62	5.57	----	
LW035D	08/10/2004	09:57	33.19	27.65	5.54	----	
LW035D	11/18/2004	07:27	33.19	27.31	5.88	----	
LW035D	02/15/2005	09:02	33.19	26.63	6.56	----	
LW035D	06/07/2005	16:18	33.19	24.80	8.39	----	
LW036D	11/18/2004	07:25	11.30	5.59	5.71	----	
LW036D	02/15/2005	08:28	11.30	5.26	6.04	----	
LW036D	06/07/2005	16:51	11.30	3.73	7.57	----	
LW037D	11/18/2004	07:30	10.84	5.35	5.49	----	
LW037D	02/15/2005	08:36	10.84	4.84	6.00	----	
LW037D	06/07/2005	16:56	10.84	3.40	7.44	----	
LW038D	11/18/2004	07:34	10.21	5.22	4.99	----	
LW038D	02/15/2005	08:43	10.21	4.29	5.92	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
LW038D	06/07/2005	17:08	10.21	3.21	7.00	----	
LW039D	11/18/2004	07:39	9.35	4.03	5.32	----	
LW039D	02/15/2005	08:51	9.35	3.53	5.82	----	
LW039D	06/07/2005	17:00	9.35	2.00	7.35	----	
LW040D	02/15/2005	08:39	33.77	27.54	6.23	----	
LW040D	06/07/2005	16:05	33.77	25.97	7.80	----	
LW045D	11/18/2004	07:29	33.36	27.53	5.83	----	
LW045D	02/15/2005	09:05	33.36	26.69	6.67	----	
LW045D	06/07/2005	16:13	33.36	24.77	8.59	----	
OX008D	10/23/2003	13:48	30.84	26.12	4.72	----	
OX008D	02/19/2004	14:20	30.84	22.52	8.32	----	
OX008D	06/09/2004	09:10	30.84	21.77	9.07	----	
OX008D	08/10/2004	08:37	30.84	25.90	4.94	----	
OX008D	08/10/2004	10:23	30.84	26.09	4.75	----	
OX008D	11/18/2004	08:25	30.84	25.25	5.59	----	
OX008D	02/15/2005	09:37	30.84	24.54	6.30	----	
OX008D	06/07/2005	19:38	30.84	22.97	7.87	----	
RW2	05/18/1999	15:02	30.68	19.50	11.18	----	
RW2	09/21/1999	11:40	30.68	25.75	4.93	----	
RW2	12/06/1999	14:17	30.68	20.77	9.91	----	
RW2	02/16/2000	10:29	30.68	20.99	9.69	----	
RW2	05/23/2000	16:52	30.68	21.37	9.31	----	
RW2	08/29/2000	13:36	30.68	25.36	5.32	----	
RW2	11/09/2000	12:50	30.68	25.83	4.85	----	Groundwater interim action pumping began 10/5/00 in the lower zone at this well. Pump not running at time of measurement.
RW2	02/12/2001	16:37	30.68	26.40	4.28	----	
RW2	06/04/2001	12:05	30.68	26.26	4.42	----	
RW2	08/16/2001	11:11	30.68	28.98	1.70	----	
RW2	11/28/2001	12:02	30.68	26.86	3.82	----	
RW2	02/27/2002	13:57	30.68	26.02	4.66	----	
RW2	06/27/2002	14:35	30.68	23.68	7.00	----	
RW2	08/26/2002	16:29	30.68	28.26	2.42	----	
RW2	11/13/2002	08:20	30.68	28.50	2.18	----	
RW2	02/11/2003	09:29	30.68	26.96	3.72	----	
RW2	05/07/2003	17:30	30.68	24.80	5.88	----	Date of measurement is day of sampling
RW2	08/27/2003	13:57	30.68	27.91	2.77	----	
RW2	10/23/2003	13:30	30.68	28.73	1.95	----	
RW2	02/19/2004	13:43	30.68	25.53	5.15	----	
RW2	06/10/2004	08:13	30.68	25.19	5.49	----	
RW2	08/10/2004	08:23	30.68	29.55	1.13	----	
RW2	08/10/2004	10:07	30.68	29.74	0.94	----	
RW2	11/18/2004	08:05	30.68	29.50	1.18	----	
RW2	02/15/2005	10:36	30.68	37.19	-6.51	----	Strong TPH odor
RW2	06/09/2005	16:20	30.68	22.94	7.74	----	
RIVER_GAUGE	08/11/1993	12:57	28.13	24.90	3.23	----	
RIVER_GAUGE	10/26/1993	13:17	28.13	25.27	2.86	----	
RIVER_GAUGE	11/17/1993	13:21	28.13	24.18	3.95	----	
RIVER_GAUGE	12/17/1993	12:46	28.13	22.48	5.65	----	
RIVER_GAUGE	01/17/1994	12:58	28.13	22.90	5.23	----	
RIVER_GAUGE	02/18/1994	14:10	28.13	22.30	5.83	----	
RIVER_GAUGE	03/18/1994	12:48	28.13	21.70	6.43	----	
RIVER_GAUGE	04/18/1994	14:34	28.13	23.50	4.63	----	
RIVER_GAUGE	05/18/1994	15:14	28.13	21.80	6.33	----	
RIVER_GAUGE	06/17/1994	14:45	28.13	21.32	6.81	----	
RIVER_GAUGE	07/19/1994	09:10	28.13	23.25	4.88	----	
RIVER_GAUGE	08/17/1994	07:26	28.13	24.00	4.13	----	
RIVER_GAUGE	09/16/1994	07:30	28.13	24.66	3.47	----	
RIVER_GAUGE	10/17/1994	08:58	28.13	24.10	4.03	----	
RIVER_GAUGE	11/21/1994	11:43	28.13	23.20	4.93	----	
RIVER_GAUGE	12/19/1994	10:58	28.13	19.95	8.18	----	
RIVER_GAUGE	01/18/1995	11:04	28.13	16.70	11.43	----	
RIVER_GAUGE	02/21/1995	13:14	28.13	14.65	13.48	----	
RIVER_GAUGE	03/21/1995	12:58	28.13	18.90	9.23	----	
RIVER_GAUGE	04/19/1995	12:37	28.13	19.80	8.33	----	
RIVER_GAUGE	05/19/1995	13:22	28.13	17.40	10.73	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
RIVER_GAUGE	07/17/1995	13:48	28.13	22.00	6.13	----	
RIVER_GAUGE	08/22/1995	07:45	28.13	23.24	4.89	----	
RIVER_GAUGE	09/22/1995	08:19	28.13	24.26	3.87	----	
RIVER_GAUGE	11/20/1995	07:50	28.13	20.20	7.93	----	
RIVER_GAUGE	12/01/1995	08:23	28.13	8.45	19.68	----	
RIVER_GAUGE	12/19/1995	07:11	28.13	14.10	14.03	----	
RIVER_GAUGE	01/19/1996	08:29	28.13	14.06	14.07	----	
RIVER_GAUGE	02/20/1996	10:36	28.13	8.00	20.13	----	
RIVER_GAUGE	03/19/1996	09:15	28.13	15.95	12.18	----	
RIVER_GAUGE	04/19/1996	11:45	28.13	13.95	14.18	----	
RIVER_GAUGE	07/22/1996	14:18	28.13	22.00	6.13	----	
RIVER_GAUGE	07/22/1996	15:05	28.13	22.20	5.93	----	
RIVER_GAUGE	08/20/1996	14:09	28.13	22.80	5.33	----	
RIVER_GAUGE	08/20/1996	15:10	28.13	23.00	5.13	----	
RIVER_GAUGE	09/24/1996	07:55	28.13	23.41	4.72	----	
RIVER_GAUGE	09/24/1996	10:15	28.13	24.25	3.88	----	
RIVER_GAUGE	10/28/1996	10:53	28.13	22.95	5.18	----	
RIVER_GAUGE	10/28/1996	12:12	28.13	23.21	4.92	----	
RIVER_GAUGE	12/13/1996	12:09	28.13	14.50	13.63	----	
RIVER_GAUGE	03/25/1997	11:33	28.13	14.60	13.53	----	
RIVER_GAUGE	03/31/1997		28.13	----	----	----	Locked
RIVER_GAUGE	07/16/1997	06:55	28.13	18.73	9.40	----	
RIVER_GAUGE	07/16/1997	07:55	28.13	18.84	9.29	----	
RIVER_GAUGE	07/16/1997	09:14	28.13	18.92	9.21	----	
RIVER_GAUGE	10/21/1997	15:52	28.13	23.38	4.75	----	
RIVER_GAUGE	10/21/1997	16:11	28.13	23.44	4.69	----	
RIVER_GAUGE	10/21/1997	17:55	28.13	23.59	4.54	----	
RIVER_GAUGE	01/27/1998	10:46	28.13	18.20	9.93	----	
RIVER_GAUGE	01/27/1998	12:25	28.13	18.31	9.82	----	
RIVER_GAUGE	01/27/1998	13:56	28.13	17.89	10.24	----	
RIVER_GAUGE	05/18/1998	17:12	28.13	16.97	11.16	----	
RIVER_GAUGE	05/18/1998	17:45	28.13	17.15	10.98	----	
RIVER_GAUGE	08/17/1998	09:58	28.13	23.98	4.15	----	
RIVER_GAUGE	08/17/1998	10:34	28.13	24.15	3.98	----	
RIVER_GAUGE	11/13/1998	09:30	28.13	24.64	3.49	----	
RIVER_GAUGE	11/13/1998	10:05	28.13	24.45	3.68	----	
RIVER_GAUGE	02/16/1999	12:40	28.13	19.36	8.77	----	
RIVER_GAUGE	02/16/1999	13:27	28.13	19.43	8.70	----	
RIVER_GAUGE	05/18/1999	14:33	28.13	17.24	10.89	----	
RIVER_GAUGE	05/18/1999	15:19	28.13	17.30	10.83	----	
RIVER_GAUGE	09/21/1999	11:10	28.13	24.94	3.19	----	
RIVER_GAUGE	09/21/1999	11:59	28.13	25.03	3.10	----	
RIVER_GAUGE	12/06/1999	13:43	28.13	18.24	9.89	----	
RIVER_GAUGE	12/06/1999	14:25	28.13	18.06	10.07	----	
RIVER_GAUGE	02/16/2000	10:03	28.13	19.18	8.95	----	
RIVER_GAUGE	02/16/2000	10:41	28.13	19.07	9.06	----	
RIVER_GAUGE	05/23/2000	16:12	28.13	19.80	8.33	----	
RIVER_GAUGE	05/23/2000	17:04	28.13	19.94	8.19	----	
RIVER_GAUGE	08/29/2000	12:54	28.13	24.63	3.50	----	
RIVER_GAUGE	08/29/2000	13:49	28.13	24.91	3.22	----	
RIVER_GAUGE	11/09/2000	12:19	28.13	24.26	3.87	----	
RIVER_GAUGE	11/09/2000	13:10	28.13	23.67	4.46	----	
RIVER_GAUGE	02/12/2001	15:45	28.13	23.75	4.38	----	
RIVER_GAUGE	02/12/2001	16:43	28.13	24.00	4.13	----	
RIVER_GAUGE	06/04/2001	11:20	28.13	23.62	4.51	----	
RIVER_GAUGE	06/04/2001	12:15	28.13	23.79	4.34	----	
RIVER_GAUGE	08/16/2001	10:20	28.13	24.83	3.30	----	
RIVER_GAUGE	08/16/2001	11:29	28.13	25.23	2.90	----	
RIVER_GAUGE	11/28/2001	11:16	28.13	22.50	5.63	----	
RIVER_GAUGE	11/28/2001	12:18	28.13	23.13	5.00	----	
RIVER_GAUGE	02/27/2002	13:11	28.13	22.24	5.89	----	
RIVER_GAUGE	02/27/2002	14:12	28.13	22.27	5.86	----	
RIVER_GAUGE	03/05/2002	11:25	28.13	21.42	6.71	----	
RIVER_GAUGE	04/05/2002	08:00	28.13	23.10	5.03	----	
RIVER_GAUGE	05/29/2002	14:07	28.13	17.31	10.82	----	
RIVER_GAUGE	06/27/2002	14:07	28.13	18.31	9.82	----	
RIVER_GAUGE	06/27/2002	14:43	28.13	18.36	9.77	----	
RIVER_GAUGE	08/26/2002	15:45	28.13	24.83	3.30	----	
RIVER_GAUGE	08/26/2002	16:13	28.13	24.85	3.28	----	
RIVER_GAUGE	11/13/2002	07:19	28.13	24.10	4.03	----	
RIVER_GAUGE	11/13/2002	07:54	28.13	24.21	3.92	----	
RIVER_GAUGE	02/11/2003	08:34	28.13	23.70	4.43	----	

TABLE A-2
GROUNDWATER LEVEL MEASUREMENTS
QUARTERLY SAMPLING EVENTS, MARCH 1997 - JUNE 2005
TIME OIL NORTHWEST TERMINAL

Well	Date	Time	Reference Elevation (ft) (a)	DTW (ft) (b)	GW Elevation (ft) (c)	LNAPL Thickness (ft)	NOTES
RIVER_GAUGE	02/11/2003	09:14	28.13	23.43	4.70	----	
RIVER_GAUGE	05/08/2003	06:40	28.13	20.02	8.11	----	
RIVER_GAUGE	05/08/2003	07:17	28.13	20.00	8.13	----	
RIVER_GAUGE	08/27/2003	13:18	28.13	23.36	4.77	----	
RIVER_GAUGE	08/27/2003	14:15	28.13	23.66	4.47	----	
RIVER_GAUGE	10/23/2003	11:46	28.13	25.00	3.13	----	
RIVER_GAUGE	10/23/2003	13:35	28.13	24.94	3.19	----	
RIVER_GAUGE	02/19/2004	12:10	28.13	21.14	6.99	----	
RIVER_GAUGE	02/19/2004	13:20	28.13	20.89	7.24	----	
RIVER_GAUGE	06/09/2004	07:18	28.13	19.79	8.34	----	
RIVER_GAUGE	06/09/2004	08:16	28.13	19.78	8.35	----	
RIVER_GAUGE	08/10/2004	08:10	28.13	24.85	3.28	----	
RIVER_GAUGE	08/10/2004	08:52	28.13	25.11	3.02	----	
RIVER_GAUGE	08/10/2004	09:51	28.13	25.43	2.70	----	
RIVER_GAUGE	08/10/2004	10:35	28.13	25.54	2.59	----	
RIVER_GAUGE	11/18/2004	07:20	28.13	24.25	3.88	----	
RIVER_GAUGE	11/18/2004	08:30	28.13	24.65	3.48	----	
RIVER_GAUGE	02/15/2005	08:18	28.13	22.91	5.22	----	

NM = Not measured.
NA = Not available.
-- No measurable product or odor observed.
* Well Point

(a) Reference Elevation (Ref. Elev) is the north side of the top of the 1.25-, 2- or 4-inch well casing, reference elevation surveys wer conducted by Zarosinski-Tatone Engineers, Inc., Portland, Oregon. For the river gauge, the reference elevation was measured at a marked location on the south side of the dock on the Willamette River.
(b) Depth to water (DTW) measured from surveyed reference elevation [see note (1)]
(c) Where LNAPL thickness measured, groundwater elevation adjusted to account for the presence of LNAPL in the well using the method in "*Estimation of Free Hydrocarbon Volume from Fluid Levels in Monitoring Wells* " [Lenhard and Parker 1990; Groundwater 28(1):57-67].

TABLE A-3
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	J1 P5F0342-04 06/07/2005	LW004S P5F0223-07 06/06/2005	LW008S P5F0668-01 06/14/2005	LW010S P5F0223-04 06/06/2005	LW011S P5F0223-02 06/06/2005	LW013S P5F0342-05 06/07/2005	OX001S P5F0668-02 06/14/2005	OX002S P5F0668-04 06/14/2005	OX003S P5F0668-03 06/14/2005	OX004S P5F0553-02 06/13/2005
CHLORINATED PHENOLS (µg/L)										
Method SW8270SIM										
Pentachlorophenol	0.500 U	NA	4.81 U	0.500 U	NA	0.526 U	**2.99**	NA	NA	NA
SEMIVOLATILES (µg/L)										
Method SW8270										
1,2,4-Trichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,4-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,5-Trichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,6-Trichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-Dichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-Dimethylphenol	10.00 U	10.00 U	10.00 U	10.00 U	40.0 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2,4-Dinitrophenol	25.0 U	25.0 U	25.0 U	25.0 U	100 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
2,4-Dinitrotoluene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,6-Dinitrotoluene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chloronaphthalene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Methylnaphthalene	5.00 U	5.00 U	11.0 U	5.00 U	20.0 U	5.00 U	**8.74**	**8.21**	**10.2**	**26.7**
2-Methylphenol	10.00 U	10.00 U	10.00 U	10.00 U	40.0 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2-Nitroaniline	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Nitrophenol	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3,3´-Dichlorobenzidine	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-,4-Methylphenol	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-Nitroaniline	10.00 U	10.00 U	10.00 U	10.00 U	40.0 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4,6-Dinitro-2-methylphenol	10.00 U	10.00 U	10.00 U	10.00 U	40.0 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Bromophenyl phenyl ether	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chloro-3-methylphenol	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chloroaniline	20.0 U	20.0 U	20.0 U	20.0 U	80.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
4-Chlorophenyl phenyl ether	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Nitroaniline	10.00 U	10.00 U	10.00 U	10.00 U	40.0 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Nitrophenol	25.0 U	25.0 U	25.0 U	25.0 U	100 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
Acenaphthene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acenaphthylene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Anthracene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (a) anthracene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (a) pyrene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (b) fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (ghi) perylene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (k) fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzoic Acid	50.0 U	50.0 U	50.0 U	50.0 U	200 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
Benzyl alcohol	10.00 U	10.00 U	10.00 U	10.00 U	40.0 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-chloroethoxy)methane	10.00 U	10.00 U	10.00 U	10.00 U	40.0 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-chloroethyl)ether	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bis(2-chloroisopropyl)ether	10.00 U	10.00 U	10.00 U	10.00 U	40.0 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-ethylhexyl)phthalate	10.00 U	10.00 U	10.00 U	10.00 U	40.0 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Butyl benzyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

TABLE A-3
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	J1 P5F0342-04 06/07/2005	LW004S P5F0223-07 06/06/2005	LW008S P5F0668-01 06/14/2005	LW010S P5F0223-04 06/06/2005	LW011S P5F0223-02 06/06/2005	LW013S P5F0342-05 06/07/2005	OX001S P5F0668-02 06/14/2005	OX002S P5F0668-04 06/14/2005	OX003S P5F0668-03 06/14/2005	OX004S P5F0553-02 06/13/2005
Chrysene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibenzo (a,h) anthracene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibenzofuran	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Diethyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dimethyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Di-n-butyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Di-n-octyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Fluorene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobutadiene	10.00 U	10.00 U	10.00 U	10.00 U	40.0 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Hexachlorocyclopentadiene	10.00 U	10.00 U	10.00 U	10.00 U	40.0 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Hexachloroethane	10.00 U	10.00 U	10.00 U	10.00 U	40.0 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Indeno (1,2,3-cd) pyrene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Isophorone	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	5.00 U	5.00 U	**34.5**	5.00 U	20.0 U	5.00 U	**14.2**	**14.9**	**16**	**38.5**
Nitrobenzene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
N-Nitrosodi-n-propylamine	10.00 U	10.00 U	10.00 U	10.00 U	40.0 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
N-Nitrosodiphenylamine	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Pentachlorophenol	10.00 U	**58.4**	10.00 U	10.00 U	**545**	10.00 U	10.00 U	**1540**	**77.9**	**13.1**
Phenanthrene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Phenol	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	11.0 U	5.00 U
Pyrene	5.00 U	5.00 U	5.00 U	5.00 U	20.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachlorophenols (2)	25.0 U	**468**	25.0 U	25.0 U	**180**	25.0 U	25.0 U	**655**	**112**	25.0 U
PAHS (µg/L) **Method SW8270SIM**										
Acenaphthene	NA	NA	0.481 U	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	0.481 U	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	0.481 U	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	NA	NA	0.0481 U	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	NA	NA	0.0481 U	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	NA	NA	0.0481 U	NA	NA	NA	NA	NA	NA	NA
Benzo (ghi) perylene	NA	NA	0.0481 U	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	NA	NA	0.0481 U	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	0.0481 U	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	NA	NA	0.0962 U	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	0.481 U	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	0.481 U	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	NA	NA	0.0481 U	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	**21.5**	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	0.481 U	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	0.0962 U	NA	NA	NA	NA	NA	NA	NA

TABLE A-3
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	J1 P5F0342-04 06/07/2005	LW004S P5F0223-07 06/06/2005	LW008S P5F0668-01 06/14/2005	LW010S P5F0223-04 06/06/2005	LW011S P5F0223-02 06/06/2005	LW013S P5F0342-05 06/07/2005	OX001S P5F0668-02 06/14/2005	OX002S P5F0668-04 06/14/2005	OX003S P5F0668-03 06/14/2005	OX004S P5F0553-02 06/13/2005
VOLATILES (µg/L)										
Method SW8260										
1,1,1,2-Tetrachloroethane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,1,1-Trichloroethane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,1,2-Trichloroethane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,1-Dichloroethane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,1-Dichloroethene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,1-Dichloropropene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,2,3-Trichlorobenzene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,2,3-Trichloropropane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,2,4-Trimethylbenzene	1.00 U	**4.49**	2.00 U	1.00 U	**62.3**	1.00 U	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	5.00 U	5.00 U	10.00 U	5.00 U	5.00 U	5.00 U	NA	NA	NA	NA
1,2-Dibromoethane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,2-Dichlorobenzene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,2-Dichloroethane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,2-Dichloropropane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,3,5-Trimethylbenzene	1.00 U	1.00 U	2.00 U	1.00 U	**9.50**	1.00 U	NA	NA	NA	NA
1,3-Dichlorobenzene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,3-Dichloropropane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
1,4-Dichlorobenzene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
2,2-Dichloropropane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
2-Butanone	10.00 U	10.00 U	20.0 U	10.00 U	10.00 U	10.00 U	NA	NA	NA	NA
2-Chlorotoluene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
2-Hexanone	10.00 U	10.00 U	20.0 U	10.00 U	10.00 U	10.00 U	NA	NA	NA	NA
4-Chlorotoluene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
4-Methyl-2-pentanone	5.00 U	5.00 U	10.00 U	5.00 U	5.00 U	5.00 U	NA	NA	NA	NA
Acetone	25.0 U	25.0 U	50.0 U	25.0 U	25.0 U	25.0 U	NA	NA	NA	NA
Benzene	1.00 U	**1.20**	2.00 U	1.00 U	**6.80**	1.00 U	NA	NA	NA	NA
Bromobenzene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Bromochloromethane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Bromodichloromethane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Bromoform	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Bromomethane	5.00 U	5.00 U	10.00 U	5.00 U	5.00 U	5.00 U	NA	NA	NA	NA
Carbon disulfide	10.00 U	10.00 U	20.0 U	10.00 U	10.00 U	10.00 U	NA	NA	NA	NA
Carbon tetrachloride	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Chlorobenzene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Chloroethane	1.00 U	1.00 U	**2.06**	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Chloroform	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Chloromethane	5.00 U	5.00 U	10.00 U	5.00 U	5.00 U	5.00 U	NA	NA	NA	NA
cis-1,2-Dichloroethene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
cis-1,3-Dichloropropene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Dibromochloromethane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Dibromomethane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Dichlorodifluoromethane	5.00 U	5.00 U	10.00 U	5.00 U	5.00 U	5.00 U	NA	NA	NA	NA
Ethylbenzene	1.00 U	1.00 U	**86**	1.00 U	**22.8**	1.00 U	NA	NA	NA	NA
Hexachlorobutadiene	4.00 U	4.00 U	8.00 U	4.00 U	4.00 U	4.00 U	NA	NA	NA	NA

BZTO104(e)021638

TABLE A-3
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	J1 P5F0342-04 06/07/2005	LW004S P5F0223-07 06/06/2005	LW008S P5F0668-01 06/14/2005	LW010S P5F0223-04 06/06/2005	LW011S P5F0223-02 06/06/2005	LW013S P5F0342-05 06/07/2005	OX001S P5F0668-02 06/14/2005	OX002S P5F0668-04 06/14/2005	OX003S P5F0668-03 06/14/2005	OX004S P5F0553-02 06/13/2005
Isopropylbenzene	**8.28**	2.00 U	**158**	2.00 U	**8.25**	2.00 U	NA	NA	NA	NA
m,p-Xylene	2.00 U	2.00 U	4.00 U	2.00 U	**25.6**	2.00 U	NA	NA	NA	NA
Methyl tert-butyl ether	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Methylene chloride	5.00 U	5.00 U	10.00 U	5.00 U	5.00 U	5.00 U	NA	NA	NA	NA
Naphthalene	**2.78**	2.00 U	**26.5**	2.00 U	**9.06**	2.00 U	NA	NA	NA	NA
n-Butylbenzene	5.00 U	5.00 U	10.00 U	5.00 U	5.00 U	5.00 U	NA	NA	NA	NA
n-Propylbenzene	**12.3**	1.00 U	**120**	1.00 U	**11.0**	1.00 U	NA	NA	NA	NA
o-Xylene	1.00 U	**16.5**	2.00 U	1.00 U	**35.9**	1.00 U	NA	NA	NA	NA
p-Isopropyltoluene	2.00 U	2.00 U	4.00 U	2.00 U	**2.56**	2.00 U	NA	NA	NA	NA
sec-Butylbenzene	**1.41**	1.00 U	**14.1**	1.00 U	**3.58**	1.00 U	NA	NA	NA	NA
Styrene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
tert-Butylbenzene	1.00 U	1.00 U	**6.4**	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Tetrachloroethene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Toluene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
trans-1,2-Dichloroethene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
trans-1,3-Dichloropropene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Trichloroethene	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Trichlorofluoromethane	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
Vinyl chloride	1.00 U	1.00 U	2.00 U	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA
TOTAL PETROLEUM HYDROCARBONS (µg/L) Method NWTPH-Dx/NWTPHg										
Diesel Range Organics	NA	278 U	**1350**	286 U	**364**	250 U	NA	NA	NA	NA
Heavy Oil Range Hydrocarbons	NA	556 U	500 U	571 U	500 U	500 U	NA	NA	NA	NA
Gasoline Range Hydrocarbons	NA	**161**	**2590**	80.0 U	**1600**	80.0 U	NA	NA	NA	NA
PRIORITY POLLUTANT METALS (µg/L) Method 6010/6020										
Antimony	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Arsenic	**9.33**	1 U	**30.2**	1 U	**3.72**	1 U	**18**	**7.55**	**14.4**	**13.2**
Beryllium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chromium	1 U	1 U	1 U	1 U	1 U	**1.94**	1 U	1 U	1 U	1 U
Copper	2 U	**20.2**	2 U	**3.48**	2 U	**14.3**	**6.61**	2 U	**3.52**	**5.04**
Lead	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Nickel	**4.10**	**52.4**	**10.5**	**7.50**	**91.6**	**35.7**	**47**	**234**	**180**	**48.3**
Selenium	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Silver	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Thallium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Zinc	5 U	5 U	5 U	5 U	**9.48**	5 U	**5.04**	**20.1**	**15.4**	**9.39**
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CONVENTIONALS (µg/L)										
Total Dissolved Solids	**183000**	**326000**	**308000**	**108000**	**456000**	**164000**	NA	NA	NA	NA
Chloride	**2880**	**4710**	**2460**	**1210**	**3270**	**3640**	NA	NA	NA	NA

TABLE A-3
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	J1 P5F0342-04 06/07/2005	LW004S P5F0223-07 06/06/2005	LW008S P5F0668-01 06/14/2005	LW010S P5F0223-04 06/06/2005	LW011S P5F0223-02 06/06/2005	LW013S P5F0342-05 06/07/2005	OX001S P5F0668-02 06/14/2005	OX002S P5F0668-04 06/14/2005	OX003S P5F0668-03 06/14/2005	OX004S P5F0553-02 06/13/2005
FIELD PARAMETERS										
pH (avg)	7.02	6.75	6.16	7.30	7.16	6.45	6.11	6.03	5.99	6.44
Temperature (° C) (avg)	15.6	14.8	15.3	14.6	15.2	13.9	15.7	15.1	15.3	15.6
Conductivity (mS/cm) (avg)	257	277	262	85	470	141	221	303	257	365
Dissolved oxygen (mg/L) (avg)	2.08	3.69	0	6.67	2.06	5.84	0	0	0	2.24
Turbidity (NTU)	3	30	6	21	3	12	0	0	3	3
Ferrous Iron (mg/L)	NA	NA	NA	NA	7	NA	4.5	8.5	5.5	6
DIOXINS/FURANS (ng/L)										
Method 1613B										
1,2,3,4,6,7,8-HpCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total HpCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total HpCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total HxCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total HxCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PeCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PeCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TEQ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-3
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	OX005S P5F0342-01 06/07/2005	OX006S P5F0342-02 06/07/2005	OX007S P5F0342-03 06/07/2005	OX008S P5F0342-08 06/07/2005	OX009S P5F0553-01 06/13/2005	RW1 P5F0668-05 06/15/2005	Dup of RW1 W P5F0668-06 06/15/2005
CHLORINATED PHENOLS (µg/L)							
Method SW8270SIM							
Pentachlorophenol	0.495 U	NA	NA	NA	0.526 U	NA	NA
SEMIVOLATILES (µg/L)							
Method SW8270							
1,2,4-Trichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,4-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,5-Trichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,6-Trichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-Dichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	**18.2**	**18.8**
2,4-Dimethylphenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2,4-Dinitrophenol	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
2,4-Dinitrotoluene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,6-Dinitrotoluene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chloronaphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Methylnaphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Methylphenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2-Nitroaniline	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Nitrophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3,3´-Dichlorobenzidine	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-,4-Methylphenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-Nitroaniline	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4,6-Dinitro-2-methylphenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Bromophenyl phenyl ether	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chloro-3-methylphenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chloroaniline	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
4-Chlorophenyl phenyl ether	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Nitroaniline	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Nitrophenol	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
Acenaphthene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acenaphthylene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Anthracene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (a) anthracene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (a) pyrene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (b) fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (ghi) perylene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (k) fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzoic Acid	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
Benzyl alcohol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-chloroethoxy)methane	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-chloroethyl)ether	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bis(2-chloroisopropyl)ether	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-ethylhexyl)phthalate	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Butyl benzyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

TABLE A-3
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	OX005S P5F0342-01 06/07/2005	OX006S P5F0342-02 06/07/2005	OX007S P5F0342-03 06/07/2005	OX008S P5F0342-08 06/07/2005	OX009S P5F0553-01 06/13/2005	RW1 P5F0668-05 06/15/2005	Dup of RW1 W P5F0668-06 06/15/2005
Chrysene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibenzo (a,h) anthracene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibenzofuran	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Diethyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dimethyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Di-n-butyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Di-n-octyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Fluorene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobutadiene	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Hexachlorocyclopentadiene	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Hexachloroethane	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Indeno (1,2,3-cd) pyrene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Isophorone	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Nitrobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
N-Nitrosodi-n-propylamine	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
N-Nitrosodiphenylamine	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Pentachlorophenol	10.00 U	**600**	**41.6**	**59.6**	10.00 U	**271**	**301**
Phenanthrene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Phenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Pyrene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachlorophenols (2)	25.0 U	**62.6**	25.0 U	**51.6**	25.0 U	**470**	**508**
PAHS (µg/L)							
Method SW8270SIM							
Acenaphthene	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	NA	NA	NA	NA	NA	NA	NA
Benzo (ghi) perylene	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA

TABLE A-3
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	OX005S P5F0342-01 06/07/2005	OX006S P5F0342-02 06/07/2005	OX007S P5F0342-03 06/07/2005	OX008S P5F0342-08 06/07/2005	OX009S P5F0553-01 06/13/2005	RW1 P5F0668-05 06/15/2005	Dup of RW1 W P5F0668-06 06/15/2005
VOLATILES (µg/L)							
Method SW8260							
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,1-Dichloroethane	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,1-Dichloroethene	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,1-Dichloropropene	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	**53.6**	**52.8**
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	5.00 U	5.00 U
1,2-Dibromoethane	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,2-Dichloroethane	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,2-Dichloropropane	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,3-Dichloropropane	NA	NA	NA	NA	NA	1.00 U	1.00 U
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	1.00 U	1.00 U
2,2-Dichloropropane	NA	NA	NA	NA	NA	1.00 U	1.00 U
2-Butanone	NA	NA	NA	NA	NA	10.00 U	10.00 U
2-Chlorotoluene	NA	NA	NA	NA	NA	1.00 U	1.00 U
2-Hexanone	NA	NA	NA	NA	NA	10.00 U	10.00 U
4-Chlorotoluene	NA	NA	NA	NA	NA	1.00 U	1.00 U
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	5.00 U	5.00 U
Acetone	NA	NA	NA	NA	NA	25.0 U	25.0 U
Benzene	NA	NA	NA	NA	NA	**11.8**	**11.9**
Bromobenzene	NA	NA	NA	NA	NA	1.00 U	1.00 U
Bromochloromethane	NA	NA	NA	NA	NA	1.00 U	1.00 U
Bromodichloromethane	NA	NA	NA	NA	NA	1.00 U	1.00 U
Bromoform	NA	NA	NA	NA	NA	1.00 U	1.00 U
Bromomethane	NA	NA	NA	NA	NA	5.00 U	5.00 U
Carbon disulfide	NA	NA	NA	NA	NA	10.00 U	10.00 U
Carbon tetrachloride	NA	NA	NA	NA	NA	1.00 U	1.00 U
Chlorobenzene	NA	NA	NA	NA	NA	1.00 U	1.00 U
Chloroethane	NA	NA	NA	NA	NA	1.00 U	1.00 U
Chloroform	NA	NA	NA	NA	NA	1.00 U	1.00 U
Chloromethane	NA	NA	NA	NA	NA	5.00 U	5.00 U
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	1.00 U	1.00 U
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	1.00 U	1.00 U
Dibromochloromethane	NA	NA	NA	NA	NA	1.00 U	1.00 U
Dibromomethane	NA	NA	NA	NA	NA	1.00 U	1.00 U
Dichlorodifluoromethane	NA	NA	NA	NA	NA	5.00 U	5.00 U
Ethylbenzene	NA	NA	NA	NA	NA	**6.46**	**6.45**
Hexachlorobutadiene	NA	NA	NA	NA	NA	4.00 U	4.00 U

TABLE A-3
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	OX005S P5F0342-01 06/07/2005	OX006S P5F0342-02 06/07/2005	OX007S P5F0342-03 06/07/2005	OX008S P5F0342-08 06/07/2005	OX009S P5F0553-01 06/13/2005	RW1 P5F0668-05 06/15/2005	Dup of RW1 W P5F0668-06 06/15/2005
Isopropylbenzene	NA	NA	NA	NA	NA	**29.2**	**29.6**
m,p-Xylene	NA	NA	NA	NA	NA	2.00 U	2.00 U
Methyl tert-butyl ether	NA	NA	NA	NA	NA	1.00 U	1.00 U
Methylene chloride	NA	NA	NA	NA	NA	5.00 U	5.00 U
Naphthalene	NA	NA	NA	NA	NA	**2.08**	**2.18**
n-Butylbenzene	NA	NA	NA	NA	NA	5.00 U	5.00 U
n-Propylbenzene	NA	NA	NA	NA	NA	**20.6**	**21.0**
o-Xylene	NA	NA	NA	NA	NA	**37.6**	**37.0**
p-Isopropyltoluene	NA	NA	NA	NA	NA	2.00 U	2.00 U
sec-Butylbenzene	NA	NA	NA	NA	NA	**6.44**	**6.82**
Styrene	NA	NA	NA	NA	NA	1.00 U	1.00 U
tert-Butylbenzene	NA	NA	NA	NA	NA	**1.67**	**1.83**
Tetrachloroethene	NA	NA	NA	NA	NA	1.00 U	1.00 U
Toluene	NA	NA	NA	NA	NA	1.00 U	1.00 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	1.00 U	1.00 U
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	1.00 U	1.00 U
Trichloroethene	NA	NA	NA	NA	NA	1.00 U	1.00 U
Trichlorofluoromethane	NA	NA	NA	NA	NA	1.00 U	1.00 U
Vinyl chloride	NA	NA	NA	NA	NA	1.00 U	1.00 U
TOTAL PETROLEUM HYDROCARBONS (µg/L) Method NWTPH-Dx/NWTPHg							
Diesel Range Organics	NA	NA	NA	NA	NA	**539**	**580**
Heavy Oil Range Hydrocarbons	NA	NA	NA	NA	NA	556 U	500 U
Gasoline Range Hydrocarbons	NA	NA	NA	NA	NA	**1270**	**1380**
PRIORITY POLLUTANT METALS (µg/L) Method 6010/6020							
Antimony	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Arsenic	**14.2**	**5.48**	**6.02**	**21.9**	**1.1**	**2.51**	**2.54**
Beryllium	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chromium	1 U	1 U	1 U	**1.27**	1 U	**3.48** J	**5.42** J
Copper	2 U	**7.16**	**6.71**	**7.82**	2 U	**19.1**	**21.5**
Lead	1 U	1 U	1 U	1 U	1 U	**2.18** J	**3.02** J
Nickel	**2.91**	**117**	**67.4**	**249**	**9.28**	**60.0**	**64.4**
Selenium	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Silver	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Thallium	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Zinc	5 U	**20.0**	**16.7**	**16.0**	5 U	**22.2** J	**28.6** J
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CONVENTIONALS (µg/L)							
Total Dissolved Solids	NA	NA	NA	NA	NA	**366000**	**382000**
Chloride	NA	NA	NA	NA	NA	**4050**	**4150**

TABLE A-3
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	OX005S P5F0342-01 06/07/2005	OX006S P5F0342-02 06/07/2005	OX007S P5F0342-03 06/07/2005	OX008S P5F0342-08 06/07/2005	OX009S P5F0553-01 06/13/2005	RW1 P5F0668-05 06/15/2005	Dup of RW1 W P5F0668-06 06/15/2005
FIELD PARAMETERS							
pH (avg)	6.68	6.22	6.02	6.31	5.53	6.36	6.36
Temperature (° C) (avg)	14.2	13.8	14.0	14.5	15.0	16.3	16.2
Conductivity (mS/cm) (avg)	202	575	500	896	287	391	389
Dissolved oxygen (mg/L) (avg)	4.29	2.42	3.93	2.44	2.80	2.46	2.45
Turbidity (NTU)	0	13	23	90	0	0	0
Ferrous Iron (mg/L)	4	2.7	3.1	2.5	2.3	5.8	5.8
DIOXINS/FURANS (ng/L)							
Method 1613B							
1,2,3,4,6,7,8-HpCDD	NA	**0.16**	NA	NA	NA	0.055 U	NA
1,2,3,4,6,7,8-HpCDF	NA	0.049 U	NA	NA	NA	0.055 U	NA
1,2,3,4,7,8,9-HpCDF	NA	0.049 U	NA	NA	NA	0.055 U	NA
1,2,3,4,7,8-HxCDD	NA	0.049 U	NA	NA	NA	0.055 U	NA
1,2,3,4,7,8-HxCDF	NA	0.049 U	NA	NA	NA	0.055 U	NA
1,2,3,6,7,8-HxCDD	NA	0.049 U	NA	NA	NA	0.055 U	NA
1,2,3,6,7,8-HxCDF	NA	0.049 U	NA	NA	NA	0.055 U	NA
1,2,3,7,8,9-HxCDD	NA	0.049 U	NA	NA	NA	0.055 U	NA
1,2,3,7,8,9-HxCDF	NA	0.049 U	NA	NA	NA	0.055 U	NA
1,2,3,7,8-PeCDD	NA	0.049 U	NA	NA	NA	0.055 U	NA
1,2,3,7,8-PeCDF	NA	0.049 U	NA	NA	NA	0.055 U	NA
2,3,4,6,7,8-HxCDF	NA	0.049 U	NA	NA	NA	0.055 U	NA
2,3,4,7,8-PeCDF	NA	0.049 U	NA	NA	NA	0.055 U	NA
2,3,7,8-TCDD	NA	0.0098 U	NA	NA	NA	0.011 U	NA
2,3,7,8-TCDF	NA	0.0098 U	NA	NA	NA	0.011 U	NA
OCDD	NA	**1.00**	NA	NA	NA	**0.33**	NA
OCDF	NA	**0.12**	NA	NA	NA	0.11 U	NA
Total HpCDD	NA	**0.25**	NA	NA	NA	0.055 U	NA
Total HpCDF	NA	**0.12**	NA	NA	NA	0.055 U	NA
Total HxCDD	NA	0.049 U	NA	NA	NA	0.055 U	NA
Total HxCDF	NA	0.049 U	NA	NA	NA	0.055 U	NA
Total PeCDD	NA	0.049 U	NA	NA	NA	0.055 U	NA
Total PeCDF	NA	0.049 U	NA	NA	NA	0.055 U	NA
Total TCDD	NA	0.0098 U	NA	NA	NA	0.011 U	NA
Total TCDF	NA	0.0098 U	NA	NA	NA	0.011 U	NA
Total TEQ	NA	**0.0027**	NA	NA	NA	**0.00033**	NA

NA = Not analyzed.
U = Indicates compound was analyzed for, but was not detected at the reported sample detection limit
J = indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
Bold indicates detected constituent.

TABLE A-4
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW007S P5F0223-01 06/06/2005	LW019S P5F0666-01 06/15/2005	LW020S P5F0666-03 06/15/2005	LW028S P5F0441-09 06/09/2005	LW029S P5F0343-04 06/08/2005	LW030S P5F0441-07 06/09/2005	LW031S P5F0441-11 06/09/2005	LW032S P5F0343-01 06/08/2005	LW033S P5F0343-03 06/08/2005	LW034S P5F0441-06 06/09/2005
CHLORINATED PHENOLS (µg/L)										
Method SW8270SIM										
Pentachlorophenol	0.481 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEMIVOLATILES (µg/L)										
Method SW8270										
1,2,4-Trichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,4-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,5-Trichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,6-Trichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-Dichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-Dimethylphenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2,4-Dinitrophenol	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
2,4-Dinitrotoluene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,6-Dinitrotoluene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chloronaphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Methylnaphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Methylphenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2-Nitroaniline	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Nitrophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3,3´-Dichlorobenzidine	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-,4-Methylphenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-Nitroaniline	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4,6-Dinitro-2-methylphenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Bromophenyl phenyl ether	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chloro-3-methylphenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chloroaniline	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
4-Chlorophenyl phenyl ether	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Nitroaniline	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Nitrophenol	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
Acenaphthene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acenaphthylene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Anthracene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (a) anthracene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (a) pyrene	5.00 U	5.00 U	15.0 U	5.00 U	5.00 U	5.00 U	15.0 U	5.00 U	5.00 U	5.00 U
Benzo (b) fluoranthene	5.00 U	5.00 U	15.0 U	5.00 U	5.00 U	5.00 U	15.0 U	5.00 U	5.00 U	5.00 U
Benzo (ghi) perylene	5.00 U	5.00 U	15.0 U	5.00 U	5.00 U	5.00 U	15.0 U	5.00 U	5.00 U	5.00 U
Benzo (k) fluoranthene	5.00 U	5.00 U	15.0 U	5.00 U	5.00 U	5.00 U	15.0 U	5.00 U	5.00 U	5.00 U
Benzoic Acid	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
Benzyl alcohol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-chloroethoxy)methane	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-chloroethyl)ether	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bis(2-chloroisopropyl)ether	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U

TABLE A-4
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW007S P5F0223-01 06/06/2005	LW019S P5F0666-01 06/15/2005	LW020S P5F0666-03 06/15/2005	LW028S P5F0441-09 06/09/2005	LW029S P5F0343-04 06/08/2005	LW030S P5F0441-07 06/09/2005	LW031S P5F0441-11 06/09/2005	LW032S P5F0343-01 06/08/2005	LW033S P5F0343-03 06/08/2005	LW034S P5F0441-06 06/09/2005
Bis(2-ethylhexyl)phthalate	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	**549**	10.00 U	10.00 U
Butyl benzyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chrysene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibenzo (a,h) anthracene	5.00 U	5.00 U	15.0 U	5.00 U	5.00 U	5.00 U	15.0 U	5.00 U	5.00 U	5.00 U
Dibenzofuran	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Diethyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dimethyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Di-n-butyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Di-n-octyl phthalate	5.00 U	5.00 U	15.0 U	5.00 U	5.00 U	5.00 U	15.0 U	5.00 U	5.00 U	5.00 U
Fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Fluorene	5.00 U	5.00 U	**6.12**	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobutadiene	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Hexachlorocyclopentadiene	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Hexachloroethane	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Indeno (1,2,3-cd) pyrene	5.00 U	5.00 U	15.0 U	5.00 U	5.00 U	5.00 U	15.0 U	5.00 U	5.00 U	5.00 U
Isophorone	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Nitrobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
N-Nitrosodi-n-propylamine	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
N-Nitrosodiphenylamine	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Pentachlorophenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Phenanthrene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Phenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Pyrene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachlorophenols (2)	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
PAHS (µg/L)										
Method SW8270SIM										
Acenaphthene	0.0481 U	**1.05**	**1.25**	0.100 U	0.100 U	2.00 U	0.111 U	2.00 U	0.111 U	0.100 U
Acenaphthylene	0.0481 U	1.00 U	0.500 U	0.100 U	0.100 U	2.00 U	0.111 U	2.00 U	0.111 U	0.100 U
Anthracene	0.0481 U	1.00 U	0.250 U	0.100 U	0.100 U	0.100 U	0.111 U	0.100 U	0.111 U	0.100 U
Benzo (a) anthracene	0.0481 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.111 U	0.100 U	0.111 U	0.100 U
Benzo (a) pyrene	0.0481 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.111 U	0.100 U	0.111 U	0.100 U
Benzo (b) fluoranthene	0.0481 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.111 U	0.100 U	0.111 U	0.100 U
Benzo (ghi) perylene	0.0481 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.111 U	0.100 U	0.111 U	0.100 U
Benzo (k) fluoranthene	0.0481 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.111 U	0.100 U	0.111 U	0.100 U
Chrysene	0.0481 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.111 U	0.100 U	0.111 U	0.100 U
Dibenzo (a,h) anthracene	0.0962 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.222 U	0.200 U	0.222 U	0.200 U
Fluoranthene	0.0481 U	1.00 U	0.100 U	0.100 U	0.100 U	0.100 U	0.111 U	0.100 U	0.111 U	0.100 U
Fluorene	0.0481 U	**2.94**	**3.83**	0.100 U	0.100 U	2.00 U	0.111 U	2.00 U	0.111 U	0.100 U
Indeno (1,2,3-cd) pyrene	0.0481 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.111 U	0.100 U	0.111 U	0.100 U
Naphthalene	0.216 U	1.50 U	1.50 U	0.100 U	0.100 U	0.800 U	0.111 U	2.00 U	0.111 U	0.100 U
Phenanthrene	0.0481 U	1.00 U	**2.39**	0.100 U	0.100 U	**1.01**	0.111 U	0.200 U	0.111 U	0.100 U
Pyrene	0.0481 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.111 U	0.100 U	0.111 U	0.100 U

BZTO104(e)021647

TABLE A-4
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW007S P5F0223-01 06/06/2005	LW019S P5F0666-01 06/15/2005	LW020S P5F0666-03 06/15/2005	LW028S P5F0441-09 06/09/2005	LW029S P5F0343-04 06/08/2005	LW030S P5F0441-07 06/09/2005	LW031S P5F0441-11 06/09/2005	LW032S P5F0343-01 06/08/2005	LW033S P5F0343-03 06/08/2005	LW034S P5F0441-06 06/09/2005
VOLATILES (µg/L)										
Method SW8260										
1,1,1,2-Tetrachloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,1-Trichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2,2-Tetrachloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2-Trichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,3-Trichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,3-Trichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trimethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dibromo-3-chloropropane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dibromoethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3,5-Trimethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
2,2-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
2-Butanone	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2-Chlorotoluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
2-Hexanone	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Chlorotoluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
4-Methyl-2-pentanone	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acetone	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
Benzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromodichloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromoform	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromomethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Carbon disulfide	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Carbon tetrachloride	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroform	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloromethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
cis-1,2-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
cis-1,3-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dibromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dibromomethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

BZTO104(e)021648

TABLE A-4
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW007S P5F0223-01 06/06/2005	LW019S P5F0666-01 06/15/2005	LW020S P5F0666-03 06/15/2005	LW028S P5F0441-09 06/09/2005	LW029S P5F0343-04 06/08/2005	LW030S P5F0441-07 06/09/2005	LW031S P5F0441-11 06/09/2005	LW032S P5F0343-01 06/08/2005	LW033S P5F0343-03 06/08/2005	LW034S P5F0441-06 06/09/2005
Ethylbenzene	**2.76**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Hexachlorobutadiene	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Isopropylbenzene	**4.88**	**5.70**	**7.00**	2.00 U	2.00 U	**4.93**	2.00 U	**10.6**	2.00 U	2.00 U
m,p-Xylene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methyl tert-butyl ether	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methylene chloride	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
n-Butylbenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	**5.70**	5.00 U	5.00 U
n-Propylbenzene	**7.60**	**8.48**	**10.5**	1.00 U	1.00 U	**13.7**	1.00 U	**11.6**	1.00 U	1.00 U
o-Xylene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
p-Isopropyltoluene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
sec-Butylbenzene	1.00 U	**4.20**	**5.92**	1.00 U	1.00 U	**1.56**	1.00 U	**6.19**	1.00 U	1.00 U
Styrene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
tert-Butylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**1.09**	1.00 U	1.00 U
Tetrachloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
trans-1,2-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
trans-1,3-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichlorofluoromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl chloride	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
TOTAL PETROLEUM HYDROCARBONS (µg/L) Method NWTPH-Dx/NWTPHg										
Diesel Range Organics	250 U	**1770**	543 U	250 U	250 U	**427**	250 U	**562**	250 U	250 U
Heavy Oil Range Hydrocarbons	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Gasoline Range Hydrocarbons	**416**	**441**	**337**	80.0 U	80.0 U	**225**	80.0 U	**971**	80.0 U	80.0 U
PRIORITY POLLUTANT METALS (µg/L) Method 6010/6020										
Antimony	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Arsenic	**16.9**	**47.2**	**26.3**	1 U	**1.96**	**17**	1 U	**20.2**	1 U	1 U
Beryllium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chromium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Lead	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Nickel	2 U	**4.26**	**6.01**	**12.4**	**3.28**	**2.1**	**2.4**	**14.7**	**2.7**	**3.77**
Selenium	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Silver	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Thallium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Zinc	5 U	5 U	5 U	5 U	5 U	**5.6**	5 U	5 U	5 U	5 U
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

BZTO104(e)021649

TABLE A-4
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW007S P5F0223-01 06/06/2005	LW019S P5F0666-01 06/15/2005	LW020S P5F0666-03 06/15/2005	LW028S P5F0441-09 06/09/2005	LW029S P5F0343-04 06/08/2005	LW030S P5F0441-07 06/09/2005	LW031S P5F0441-11 06/09/2005	LW032S P5F0343-01 06/08/2005	LW033S P5F0343-03 06/08/2005	LW034S P5F0441-06 06/09/2005
CONVENTIONALS (µg/L)										
Total Dissolved Solids	**225000**	**244000**	**265000**	**99000**	**136000**	**203000**	**112000**	**273000**	**130000**	**175000**
Chloride	**2510**	**2630**	**1560**	**2250**	**1780**	**1470**	**1190**	**7280**	**1740**	**1830**
FIELD PARAMETERS										
pH (avg)	7.13	6.58	6.30	5.50	6.51	6.26	5.96	6.36	6.53	6.22
Temperature (° C) (avg)	15.0	13.6	14.7	14.8	15.2	13.8	13.9	12.8	15.0	15.3
Conductivity (mS/cm) (avg)	250	354	245	80	177	325	126	467	123	167
Dissolved oxygen (mg/L) (avg)	2.33	0	0	6.17	7.52	7.41	10.08	5.60	4.44	4.66
Turbidity (NTU)	21	0	0	0	28	0	27	9	0	0

TABLE A-4
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW040S P5F0554-04 06/13/2005	LW041S P5F0441-01 06/08/2005	LW042S P5F0441-14 06/10/2005	Dup of LW042S Z P5F0443-01 06/10/2005	LW043S P5F0441-15 06/10/2005	LW044S P5F0441-10 06/09/2005	N P5F0666-05 06/15/2005	P P5F0666-06 06/15/2005	Q P5F0666-07 06/15/2005
CHLORINATED PHENOLS (µg/L)									
Method SW8270SIM									
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEMIVOLATILES (µg/L)									
Method SW8270									
1,2,4-Trichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
1,2-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
1,3-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
1,4-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
2,4,5-Trichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
2,4,6-Trichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
2,4-Dichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
2,4-Dimethylphenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	**14.4**	50.0 U	10.00 U
2,4-Dinitrophenol	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	125 U	25.0 U
2,4-Dinitrotoluene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
2,6-Dinitrotoluene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
2-Chloronaphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
2-Chlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
2-Methylnaphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	**25.2**	25.0 U	5.00 U
2-Methylphenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	10.00 U
2-Nitroaniline	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
2-Nitrophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
3,3´-Dichlorobenzidine	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
3-,4-Methylphenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	**8.93**	**5.36**	**445**	**28.0**
3-Nitroaniline	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	10.00 U
4,6-Dinitro-2-methylphenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	10.00 U
4-Bromophenyl phenyl ether	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
4-Chloro-3-methylphenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
4-Chloroaniline	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	100 U	20.0 U
4-Chlorophenyl phenyl ether	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
4-Nitroaniline	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	10.00 U
4-Nitrophenol	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	125 U	25.0 U
Acenaphthene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	**10.6**
Acenaphthylene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Anthracene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Benzo (a) anthracene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Benzo (a) pyrene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	15.0 U	25.0 U	5.00 U
Benzo (b) fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	15.0 U	25.0 U	5.00 U
Benzo (ghi) perylene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	15.0 U	25.0 U	5.00 U
Benzo (k) fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	15.0 U	25.0 U	5.00 U
Benzoic Acid	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	250 U	50.0 U
Benzyl alcohol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	10.00 U
Bis(2-chloroethoxy)methane	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	10.00 U
Bis(2-chloroethyl)ether	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Bis(2-chloroisopropyl)ether	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	10.00 U

TABLE A-4
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW040S P5F0554-04 06/13/2005	LW041S P5F0441-01 06/08/2005	LW042S P5F0441-14 06/10/2005	Dup of LW042S Z P5F0443-01 06/10/2005	LW043S P5F0441-15 06/10/2005	LW044S P5F0441-10 06/09/2005	N P5F0666-05 06/15/2005	P P5F0666-06 06/15/2005	Q P5F0666-07 06/15/2005
Bis(2-ethylhexyl)phthalate	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	10.00 U
Butyl benzyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Chrysene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Dibenzo (a,h) anthracene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	15.0 U	25.0 U	5.00 U
Dibenzofuran	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	**5.31**
Diethyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Dimethyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Di-n-butyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Di-n-octyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	15.0 U	25.0 U	5.00 U
Fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Fluorene	5.00 U	5.00 U	**6.93**	**6.91**	5.00 U	5.00 U	5.00 U	25.0 U	**9.01**
Hexachlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Hexachlorobutadiene	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	10.00 U
Hexachlorocyclopentadiene	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	10.00 U
Hexachloroethane	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	10.00 U
Indeno (1,2,3-cd) pyrene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	15.0 U	25.0 U	5.00 U
Isophorone	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Naphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	**66.8**	25.0 U	5.00 U
Nitrobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
N-Nitrosodi-n-propylamine	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	10.00 U
N-Nitrosodiphenylamine	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Pentachlorophenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	10.00 U
Phenanthrene	5.00 U	5.00 U	**5.42**	**5.44**	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Phenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	**14.7** J	**135** J	**74.6** J
Pyrene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	5.00 U
Tetrachlorophenols (2)	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	125 U	25.0 U
PAHS (µg/L)									
Method SW8270SIM									
Acenaphthene	0.100 U	0.100 U	**2.45**	**2.38**	**1.01**	1.00 U	2.00 U	**2.94**	**6.70**
Acenaphthylene	0.100 U	0.100 U	0.600 U	1.00 U	0.200 U	1.00 U	2.00 U	1.00 U	1.00 U
Anthracene	0.100 U	0.100 U	**0.183**	0.250 U	0.100 U	0.100 U	0.100 U	0.500 U	1.00 U
Benzo (a) anthracene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.500 U	**0.123**
Benzo (a) pyrene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.500 U	0.100 U
Benzo (b) fluoranthene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.500 U	0.100 U
Benzo (ghi) perylene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.500 U	0.100 U
Benzo (k) fluoranthene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.500 U	0.100 U
Chrysene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.500 U	**0.116**
Dibenzo (a,h) anthracene	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	1.00 U	0.200 U
Fluoranthene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	**1.34**	1.00 U
Fluorene	0.100 U	0.100 U	**4.73**	**5.05**	**1.49**	1.00 U	**2.50**	**3.46**	**6.88**
Indeno (1,2,3-cd) pyrene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.500 U	0.100 U
Naphthalene	0.100 U	0.300 U	1.20 U	2.00 U	0.650 U	1.50 U	**52.3**	3.5 U	2.50 U
Phenanthrene	0.100 U	0.100 U	**3.86**	**3.58**	**0.799**	0.100 U	**0.963**	**1.60**	**3.45**
Pyrene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	**1.28**	**0.636**

TABLE A-4
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW040S P5F0554-04 06/13/2005	LW041S P5F0441-01 06/08/2005	LW042S P5F0441-14 06/10/2005	Dup of LW042S Z P5F0443-01 06/10/2005	LW043S P5F0441-15 06/10/2005	LW044S P5F0441-10 06/09/2005	N P5F0666-05 06/15/2005	P P5F0666-06 06/15/2005	Q P5F0666-07 06/15/2005
VOLATILES (µg/L)									
Method SW8260									
1,1,1,2-Tetrachloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,1,1-Trichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,1,2,2-Tetrachloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,1,2-Trichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,1-Dichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,1-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,1-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,2,3-Trichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,2,3-Trichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,2,4-Trichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,2,4-Trimethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**322**	**46.8**	5.00 U
1,2-Dibromo-3-chloropropane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	100 U	25.0 U
1,2-Dibromoethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,2-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,2-Dichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,2-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,3,5-Trimethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**65.5**	**68.0**	5.00 U
1,3-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,3-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
1,4-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
2,2-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
2-Butanone	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	200 U	50.0 U
2-Chlorotoluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
2-Hexanone	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	200 U	50.0 U
4-Chlorotoluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
4-Methyl-2-pentanone	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	100 U	25.0 U
Acetone	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	125 U	500 U	125 U
Benzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**396**	**2020**	**909**
Bromobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Bromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Bromodichloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Bromoform	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Bromomethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	100 U	25.0 U
Carbon disulfide	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	50.0 U	200 U	50.0 U
Carbon tetrachloride	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Chlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Chloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Chloroform	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Chloromethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	100 U	25.0 U
cis-1,2-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
cis-1,3-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Dibromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Dibromomethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Dichlorodifluoromethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	100 U	25.0 U

TABLE A-4
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW040S P5F0554-04 06/13/2005	LW041S P5F0441-01 06/08/2005	LW042S P5F0441-14 06/10/2005	Dup of LW042S Z P5F0443-01 06/10/2005	LW043S P5F0441-15 06/10/2005	LW044S P5F0441-10 06/09/2005	N P5F0666-05 06/15/2005	P P5F0666-06 06/15/2005	Q P5F0666-07 06/15/2005
Ethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**785**	20.0 U	**5.55**
Hexachlorobutadiene	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	20.0 U	80.0 U	20.0 U
Isopropylbenzene	2.00 U	2.00 U	**19.2**	**20.9**	**11.1**	**23.6**	**59.2**	40.0 U	**42.8**
m,p-Xylene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	**1480**	**60.6**	**12.6**
Methyl tert-butyl ether	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Methylene chloride	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25.0 U	100 U	25.0 U
Naphthalene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	**79.4**	40.0 U	10.00 U
n-Butylbenzene	5.00 U	5.00 U	**7.44**	**10.4**	5.00 U	5.00 U	25.0 U	100 U	25.0 U
n-Propylbenzene	1.00 U	1.00 U	**43.5**	**50.3**	**26.5**	**13.0**	**89.3**	20.0 U	**84.1**
o-Xylene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**390**	**58.6**	5.00 U
p-Isopropyltoluene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	10.00 U	40.0 U	10.00 U
sec-Butylbenzene	1.00 U	1.00 U	**5.01** J	**6.26** J	**2.81**	**1.17**	5.00 U	20.0 U	**5.10**
Styrene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
tert-Butylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Tetrachloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Toluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**66.2**	20.0 U	**13.4**
trans-1,2-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
trans-1,3-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Trichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Trichlorofluoromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
Vinyl chloride	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	20.0 U	5.00 U
TOTAL PETROLEUM HYDROCARBONS (µg/L) Method NWTPH-Dx/NWTPHg									
Diesel Range Organics	250 UJ	250 U	**1270**	**1150**	**588**	**779**	1270 U	**5410**	**1810**
Heavy Oil Range Hydrocarbons	500 UJ	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Gasoline Range Hydrocarbons	80.0 U	80.0 U	**600** J	**882** J	**476**	**545**	**7990**	**7980**	**2560**
PRIORITY POLLUTANT METALS (µg/L) Method 6010/6020									
Antimony	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Arsenic	1 U	1 U	**23.3**	**22.6**	**16.6**	**17.5**	**42.4**	**32.8**	**38.9**
Beryllium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chromium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	2 U	2 U	2 U	2 U	2 U	**8.57**	2 U	**12.3**	2 U
Lead	1 U	1 U	**4.94**	**5.05**	1 U	1 U	**5.15**	**109**	**13.5**
Nickel	**5.57**	2 U	2 U	2 U	2 U	**7.33**	**2.75**	**10.9**	**2.55**
Selenium	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Silver	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.12**	**1.12**
Thallium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Zinc	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

BZTO104(e)021654

TABLE A-4
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - UPPER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW040S P5F0554-04 06/13/2005	LW041S P5F0441-01 06/08/2005	LW042S P5F0441-14 06/10/2005	Dup of LW042S Z P5F0443-01 06/10/2005	LW043S P5F0441-15 06/10/2005	LW044S P5F0441-10 06/09/2005	N P5F0666-05 06/15/2005	P P5F0666-06 06/15/2005	Q P5F0666-07 06/15/2005
CONVENTIONALS (µg/L)									
Total Dissolved Solids	**184000**	**140000**	**226000**	**220000**	**243000**	**229000**	**337000**	**524000**	**365000**
Chloride	**1390**	**1620**	**1380**	**1590**	**1550**	**1800**	**2070**	**1940**	**2200**
FIELD PARAMETERS									
pH (avg)	5.49	6.64	6.72	6.72	6.97	6.40	6.11	6.29	6.72
Temperature (° C) (avg)	14.1	16.1	13.9	13.9	14.1	15.7	14.1	14.4	14.3
Conductivity (mS/cm) (avg)	126	162	293	293	294	242	487	309	297
Dissolved oxygen (mg/L) (avg)	10.88	2.93	2.41	2.47	1.80	4.17	3.22	NA	NA
Turbidity (NTU)	0	0	4	3	0	5	0	63	0

NA = Not analyzed.
U = Indicates compound was analyzed for, but was not detected at the reported sample detection limit
UJ = The analyte was not detected in the sample; the reported sample detection limit is an estimate
J = indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
Bold indicates detected constituent.

TABLE A-5
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - LOWER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	G1A P5F0553-05 06/14/2005	LW004DR P5F0223-08 06/06/2005	LW006D P5F0553-03 06/14/2005	LW009D P5F0553-04 06/14/2005	LW010D P5F0223-05 06/06/2005	LW011D P5F0223-03 06/06/2005	LW017D P5F0444-02 06/10/2005	LW018D P5F0444-01 06/10/2005	OX008D P5F0342-07 06/07/2005	RW2 P5F0223-06 06/06/2005
CHLORINATED PHENOLS (µg/L)										
Method SW8270SIM										
Pentachlorophenol	0.500 U	0.556 U	0.500 U	0.500 U	0.485 U	0.485 U	0.500 U	0.495 U	0.485 U	0.495 U
SEMIVOLATILES (µg/L)										
Method SW8270										
1,2,4-Trichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,4-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,5-Trichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,6-Trichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-Dichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-Dimethylphenol	10.00 U	10.00 U	10.00 U	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2,4-Dinitrophenol	25.0 U	25.0 U	25.0 U	25.0 U	27.8 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
2,4-Dinitrotoluene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,6-Dinitrotoluene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chloronaphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Methylnaphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Methylphenol	10.00 U	10.00 U	10.00 U	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2-Nitroaniline	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Nitrophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3,3´-Dichlorobenzidine	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-,4-Methylphenol	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-Nitroaniline	10.00 U	10.00 U	10.00 U	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4,6-Dinitro-2-methylphenol	10.00 U	10.00 U	10.00 U	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Bromophenyl phenyl ether	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chloro-3-methylphenol	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chloroaniline	20.0 U	20.0 U	20.0 U	20.0 U	22.2 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
4-Chlorophenyl phenyl ether	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Nitroaniline	10.00 U	10.00 U	10.00 U	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Nitrophenol	25.0 U	25.0 U	25.0 U	25.0 U	27.8 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
Acenaphthene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acenaphthylene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Anthracene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (a) anthracene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (a) pyrene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (b) fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (ghi) perylene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (k) fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzoic Acid	50.0 U	50.0 U	50.0 U	50.0 U	55.6 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
Benzyl alcohol	10.00 U	10.00 U	10.00 U	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-chloroethoxy)methane	10.00 U	10.00 U	10.00 U	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-chloroethyl)ether	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bis(2-chloroisopropyl)ether	10.00 U	10.00 U	10.00 U	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-ethylhexyl)phthalate	10.00 U	10.00 U	10.00 U	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Butyl benzyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

TABLE A-5
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - LOWER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	G1A P5F0553-05 06/14/2005	LW004DR P5F0223-08 06/06/2005	LW006D P5F0553-03 06/14/2005	LW009D P5F0553-04 06/14/2005	LW010D P5F0223-05 06/06/2005	LW011D P5F0223-03 06/06/2005	LW017D P5F0444-02 06/10/2005	LW018D P5F0444-01 06/10/2005	OX008D P5F0342-07 06/07/2005	RW2 P5F0223-06 06/06/2005
Chrysene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibenzo (a,h) anthracene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibenzofuran	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Diethyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dimethyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Di-n-butyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Di-n-octyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Fluorene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobutadiene	10.00 U	10.00 U	10.00 U	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Hexachlorocyclopentadiene	10.00 U	10.00 U	10.00 U	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Hexachloroethane	10.00 U	10.00 U	10.00 U	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Indeno (1,2,3-cd) pyrene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Isophorone	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Nitrobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
N-Nitrosodi-n-propylamine	10.00 U	10.00 U	10.00 U	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
N-Nitrosodiphenylamine	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Pentachlorophenol	10.00 U	10.00 U	10.00 U	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Phenanthrene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Phenol	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Pyrene	5.00 U	5.00 U	5.00 U	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachlorophenols (2)	25.0 U	25.0 U	25.0 U	25.0 U	27.8 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
VOLATILES (µg/L)										
Method SW8260										
1,1,1,2-Tetrachloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,1,1-Trichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,1,2,2-Tetrachloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,1,2-Trichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,1-Dichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,1-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,1-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,2,3-Trichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,2,3-Trichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,2,4-Trichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,2,4-Trimethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	**5.39**
1,2-Dibromo-3-chloropropane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	NA	5.00 U
1,2-Dibromoethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,2-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,2-Dichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,2-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,3,5-Trimethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	**1.20**
1,3-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,3-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
1,4-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
2,2-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U

TABLE A-5
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - LOWER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	G1A P5F0553-05 06/14/2005	LW004DR P5F0223-08 06/06/2005	LW006D P5F0553-03 06/14/2005	LW009D P5F0553-04 06/14/2005	LW010D P5F0223-05 06/06/2005	LW011D P5F0223-03 06/06/2005	LW017D P5F0444-02 06/10/2005	LW018D P5F0444-01 06/10/2005	OX008D P5F0342-07 06/07/2005	RW2 P5F0223-06 06/06/2005
2-Butanone	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	NA	10.00 U
2-Chlorotoluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
2-Hexanone	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	NA	10.00 U
4-Chlorotoluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
4-Methyl-2-pentanone	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	NA	5.00 U
Acetone	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	NA	25.0 U
Benzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Bromobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Bromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Bromodichloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Bromoform	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Bromomethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	NA	5.00 U
Carbon disulfide	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	NA	10.00 U
Carbon tetrachloride	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Chlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Chloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Chloroform	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Chloromethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	NA	5.00 U
cis-1,2-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
cis-1,3-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Dibromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Dibromomethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Dichlorodifluoromethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	NA	5.00 U
Ethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**8.10**	1.00 U	NA	**3.39**
Hexachlorobutadiene	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	NA	4.00 U
Isopropylbenzene	**146**	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	**145**	**76.3**	NA	**33.2**
m,p-Xylene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	NA	**2.06**
Methyl tert-butyl ether	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Methylene chloride	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	NA	5.00 U
Naphthalene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	NA	2.00 U
n-Butylbenzene	**9.15**	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	**6.31**	**6.23**	NA	5.00 U
n-Propylbenzene	**115**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**121**	**60.7**	NA	**37.8**
o-Xylene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
p-Isopropyltoluene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	NA	2.00 U
sec-Butylbenzene	**15.4**	1.00 U	**1.16**	1.00 U	1.00 U	1.00 U	**18.8**	**11.0**	NA	**6.13**
Styrene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
tert-Butylbenzene	**3.84**	1.00 U	**2.00**	1.00 U	1.00 U	1.00 U	**4.81**	**3.67**	NA	**1.79**
Tetrachloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Toluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
trans-1,2-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
trans-1,3-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Trichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Trichlorofluoromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U
Vinyl chloride	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NA	1.00 U

TABLE A-5
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - LOWER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	G1A P5F0553-05 06/14/2005	LW004DR P5F0223-08 06/06/2005	LW006D P5F0553-03 06/14/2005	LW009D P5F0553-04 06/14/2005	LW010D P5F0223-05 06/06/2005	LW011D P5F0223-03 06/06/2005	LW017D P5F0444-02 06/10/2005	LW018D P5F0444-01 06/10/2005	OX008D P5F0342-07 06/07/2005	RW2 P5F0223-06 06/06/2005
TOTAL PETROLEUM HYDROCARBONS (µg/L)										
Method NWTPH-Dx/NWTPHg										
Diesel Range Organics	**388**	278 U	**326**	250 U	250 U	250 U	**759**	**498**	NA	250 U
Heavy Oil Range Hydrocarbons	500 U	556 U	500 U	500 U	500 U	500 U	500 U	500 U	NA	500 U
Gasoline Range Hydrocarbons	NA	80.0 U	NA	**109**	80.0 U	80.0 U	**1830** J	**985** J	NA	**488**
PRIORITY POLLUTANT METALS (µg/L)										
Method 6010/6020										
Antimony	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Arsenic	**42.4**	**11.3**	**10.9**	**36.6**	**22.6**	**10.4**	**34.0**	**3.45**	**13.6**	**24.9**
Beryllium	1 U	1 U	1 U	1 U	1 U	**2.51**	1 U	1 U	1 U	1 U
Cadmium	1 U	1 U	1 U	1 U	1 U	11.1 U	1 U	1 U	1 U	1 U
Chromium	**2.12**	**1.29**	1 U	1 U	**4.97**	**65.0**	1 U	1 U	**2.82**	1 U
Copper	**3.34**	**2.74**	2 U	2 U	**8.74**	**99.9**	**3.17**	**7.28**	**4.10**	2 U
Lead	**1.39**	1 U	1 U	1 U	**2.07**	**36.9**	**1.32**	**1.24**	**1.25**	1 U
Nickel	**109**	**16.2**	**4.18**	**2.33**	**4.99**	**83.9**	**34.2**	**3.10**	**4.64**	**26.8**
Selenium	2 U	2 U	2 U	2 U	2 U	**2.88**	2 U	2 U	2 U	2 U
Silver	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Thallium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Zinc	**10.1**	**13.7**	**5.23**	**8.08**	**13.6**	**254**	**21.8**	**322**	**12.9**	**114**
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CONVENTIONALS (µg/L)										
Total Dissolved Solids	**350000**	**385000**	**268000**	**220000**	**151000**	**447000**	NA	NA	NA	**286000**
Chloride	**5370**	**5320**	**2410**	**1200**	**1620**	**5570**	NA	NA	NA	**3720**
FIELD PARAMETERS										
pH (avg)	6.59	7.34	6.54	6.72	7.41	7.34	6.81	7.13	7.03	7.04
Temperature (° C) (avg)	17.7	19.0	20.1	15.8	14.4	17.1	15.7	12.6	16.4	14.7
Conductivity (mS/cm) (avg)	308	469	279	186	124	462	315	145	347	347
Dissolved oxygen (mg/L) (avg)	0.78	4.28	4.69	1.95	4.79	2.79	2.76	3.23	3.23	4.32
Turbidity (NTU)	83	109	5	10	48	56	31	22	77	6
Ferrous Iron (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	3.2	NA

NA = Not analyzed.
U = Indicates compound was analyzed for, but was not detected at the reported sample detection limit
J = indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
Bold indicates detected constituent.

BZTO104(e)021659

TABLE A-6
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - LOWER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW020D P5F0666-04 06/15/2005	LW022D P5F0554-02 06/13/2005	LW023D P5F0441-13 06/10/2005	LW024D P5F0554-07 06/14/2005	Dup of LW024D X P5F0554-06 06/14/2005	LW025D P5F0441-12 06/10/2005	LW026D P5F0666-08 06/15/2005	LW027D P5F0666-09 06/15/2005	LW029D P5F0343-05 06/08/2005	LW030D P5F0441-08 06/09/2005
SEMIVOLATILES (µg/L)										
Method SW8270										
1,2,4-Trichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,4-Dichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,5-Trichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,6-Trichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-Dichlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-Dimethylphenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2,4-Dinitrophenol	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
2,4-Dinitrotoluene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,6-Dinitrotoluene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chloronaphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Methylnaphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Methylphenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2-Nitroaniline	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Nitrophenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3,3´-Dichlorobenzidine	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-,4-Methylphenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-Nitroaniline	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4,6-Dinitro-2-methylphenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Bromophenyl phenyl ether	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chloro-3-methylphenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chloroaniline	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
4-Chlorophenyl phenyl ether	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Nitroaniline	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Nitrophenol	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
Acenaphthene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acenaphthylene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Anthracene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (a) anthracene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (a) pyrene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (b) fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (ghi) perylene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (k) fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzoic Acid	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
Benzyl alcohol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-chloroethoxy)methane	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-chloroethyl)ether	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bis(2-chloroisopropyl)ether	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-ethylhexyl)phthalate	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Butyl benzyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chrysene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibenzo (a,h) anthracene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

TABLE A-6
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - LOWER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW020D P5F0666-04 06/15/2005	LW022D P5F0554-02 06/13/2005	LW023D P5F0441-13 06/10/2005	LW024D P5F0554-07 06/14/2005	Dup of LW024D X P5F0554-06 06/14/2005	LW025D P5F0441-12 06/10/2005	LW026D P5F0666-08 06/15/2005	LW027D P5F0666-09 06/15/2005	LW029D P5F0343-05 06/08/2005	LW030D P5F0441-08 06/09/2005
Dibenzofuran	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Diethyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dimethyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Di-n-butyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Di-n-octyl phthalate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Fluoranthene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Fluorene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobutadiene	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Hexachlorocyclopentadiene	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Hexachloroethane	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Indeno (1,2,3-cd) pyrene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Isophorone	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Nitrobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
N-Nitrosodi-n-propylamine	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
N-Nitrosodiphenylamine	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Pentachlorophenol	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Phenanthrene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Phenol	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Pyrene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachlorophenols (2)	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
PAHS (µg/L)										
Method SW8270SIM										
Acenaphthene	0.495 U	0.100 U	**0.356**	NA	**1.27**	**1.07**	0.500 U	0.500 U	0.100 U	0.100 U
Acenaphthylene	0.495 U	0.100 U	0.100 U	NA	1.00 U	0.400 U	0.500 U	0.500 U	0.100 U	0.100 U
Anthracene	0.495 U	0.100 U	0.100 U	NA	0.150 U	**0.257**	0.100 U	0.100 U	0.100 U	0.100 U
Benzo (a) anthracene	0.495 U	0.100 U	0.100 U	NA	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Benzo (a) pyrene	0.495 U	0.100 U	0.100 U	NA	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Benzo (b) fluoranthene	0.495 U	0.100 U	0.100 U	NA	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Benzo (ghi) perylene	0.495 U	0.100 U	0.100 U	NA	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Benzo (k) fluoranthene	0.495 U	0.100 U	0.100 U	NA	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Chrysene	0.495 U	0.100 U	0.100 U	NA	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Dibenzo (a,h) anthracene	0.990 U	0.200 U	0.200 U	NA	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Fluoranthene	0.495 U	0.100 U	0.100 U	NA	**0.154**	**0.350**	0.100 U	0.100 U	0.100 U	0.100 U
Fluorene	0.495 U	0.100 U	**0.160**	NA	**3.01**	**2.14**	0.500 U	0.500 U	0.100 U	0.100 U
Indeno (1,2,3-cd) pyrene	0.495 U	0.100 U	0.100 U	NA	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Naphthalene	0.495 U	0.100 U	0.400 U	NA	2.00 U	1.60 U	0.500 U	0.200 U	0.100 U	0.100 U
Phenanthrene	0.495 U	0.100 U	0.100 U	NA	**1.35**	**1.23**	0.100 U	0.100 U	0.100 U	0.100 U
Pyrene	0.495 U	0.100 U	0.100 U	NA	**0.2**	**0.416**	0.100 U	0.100 U	0.100 U	0.100 U

BZTO104(e)021661

TABLE A-6
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - LOWER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW020D P5F0666-04 06/15/2005	LW022D P5F0554-02 06/13/2005	LW023D P5F0441-13 06/10/2005	LW024D P5F0554-07 06/14/2005	Dup of LW024D X P5F0554-06 06/14/2005	LW025D P5F0441-12 06/10/2005	LW026D P5F0666-08 06/15/2005	LW027D P5F0666-09 06/15/2005	LW029D P5F0343-05 06/08/2005	LW030D P5F0441-08 06/09/2005
VOLATILES (µg/L)										
Method SW8260										
1,1,1,2-Tetrachloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,1-Trichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2,2-Tetrachloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2-Trichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,3-Trichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,3-Trichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trimethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dibromo-3-chloropropane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dibromoethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3,5-Trimethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
2,2-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
2-Butanone	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2-Chlorotoluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
2-Hexanone	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Chlorotoluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
4-Methyl-2-pentanone	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acetone	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
Benzene	1.00 U	1.00 U	**64.6**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromodichloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromoform	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromomethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Carbon disulfide	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Carbon tetrachloride	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroform	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloromethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
cis-1,2-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
cis-1,3-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dibromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dibromomethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

TABLE A-6
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - LOWER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW020D P5F0666-04 06/15/2005	LW022D P5F0554-02 06/13/2005	LW023D P5F0441-13 06/10/2005	LW024D P5F0554-07 06/14/2005	Dup of LW024D X P5F0554-06 06/14/2005	LW025D P5F0441-12 06/10/2005	LW026D P5F0666-08 06/15/2005	LW027D P5F0666-09 06/15/2005	LW029D P5F0343-05 06/08/2005	LW030D P5F0441-08 06/09/2005
Ethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Hexachlorobutadiene	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Isopropylbenzene	2.00 U	2.00 U	**4.15**	**3.62**	**3.62**	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
m,p-Xylene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methyl tert-butyl ether	1.00 U	1.00 U	**10.9**	1.00 U	1.00 U	1.00 U	**4.68**	**4.83**	1.00 U	1.00 U
Methylene chloride	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
n-Butylbenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
n-Propylbenzene	1.00 U	1.00 U	**1.53**	**3.65**	**3.60**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
o-Xylene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
p-Isopropyltoluene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
sec-Butylbenzene	1.00 U	1.00 U	1.00 U	**2.19**	**2.09**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Styrene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
tert-Butylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrachloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
trans-1,2-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
trans-1,3-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichlorofluoromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl chloride	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
TOTAL PETROLEUM HYDROCARBONS (µg/L) Method NWTPH-Dx/NWTPHg										
Diesel Range Organics	250 U	250 U	250 U	NA	**655**	**520**	250 U	788 U	250 U	250 U
Heavy Oil Range Hydrocarbons	500 U	500 U	500 U	NA	500 U	500 U	500 U	500 U	500 U	500 U
Gasoline Range Hydrocarbons	80 U	80 U	**241**	NA	**189**	**182**	**181**	80 U	80 U	80 UJ
PRIORITY POLLUTANT METALS (µg/L) Method 6010/6020										
Antimony	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
Arsenic	**32.6**	**75.7**	**47.2**	NA	**46.5**	**23.5**	**3.73**	**4.83**	**11.1**	**14.4**
Beryllium	1 U	**1.7**	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
Chromium	**3.92**	**33.9**	**11.4**	NA	**10.5**	**1.26**	**3.77**	**1.77**	**1.77**	**13.4**
Copper	**5.89**	**49.1**	**18.2**	NA	**14.9**	2 U	**7.14**	**3.41**	2 U	**25.8**
Lead	**1.25**	**21.3**	**6.29**	NA	**5.78**	**1.86**	**2.19**	1 U	1 U	**5.01**
Nickel	**5.01**	**49.7**	**12.2**	NA	**13**	**5.72**	**3.65**	**4.11**	**4.59**	**15.4**
Selenium	2 U	2 U	2 U	NA	2 U	2 U	2 U	2 U	2 U	2 U
Silver	1 U	1 U	1 U	NA	1 U	1 U	**1.4**	1 U	1 U	1 U
Thallium	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
Zinc	**10.8**	**116**	**31.5**	NA	**32.8**	**5.86**	**17.7**	**9.24**	**8.09**	**42.1**
Mercury	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

BZTO104(e)021663

TABLE A-6
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - LOWER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW020D P5F0666-04 06/15/2005	LW022D P5F0554-02 06/13/2005	LW023D P5F0441-13 06/10/2005	LW024D P5F0554-07 06/14/2005	Dup of LW024D X P5F0554-06 06/14/2005	LW025D P5F0441-12 06/10/2005	LW026D P5F0666-08 06/15/2005	LW027D P5F0666-09 06/15/2005	LW029D P5F0343-05 06/08/2005	LW030D P5F0441-08 06/09/2005
DISSOLVED METALS (µg/L)										
Method 6010/6020										
Antimony (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CONVENTIONALS (µg/L)										
Total Dissolved Solids	**269000**	**289000**	**459000**	NA	**352000**	**247000**	**333000**	**309000**	**443000**	**335000**
Chloride	**2730**	**1510**	**2430**	NA	**3060**	**1630**	**2860**	**2970**	**4180**	**6440**
FIELD PARAMETERS										
pH (avg)	6.77	5.89	7.01	6.71	6.72	6.17	6.73	6.60	6.98	7.06
Temperature (° C) (avg)	15.8	14.6	13.9	15.5	15.5	14.3	15.5	16.3	16.8	17.2
Conductivity (mS/cm) (avg)	256	285	507	397	397	411	265	323	471	416
Dissolved oxygen (mg/L) (avg)	0.09	5.90	4.64	2.24	2.24	2.24	NA	3.03	3.79	4.21
Turbidity (NTU)	653	999	456	112	108	75	115	12	0	227

TABLE A-6
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - LOWER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW032D P5F0343-02 06/08/2005	LW035D P5F0554-03 06/13/2005	LW036D P5F0441-04 06/08/2005	LW037D P5F0441-05 06/08/2005	LW038D P5F0441-03 06/08/2005	LW039D P5F0441-02 06/08/2005	LW040D P5F0554-05 06/13/2005	Dup of LW040D Y P5F0554-01 06/13/2005	LW045D P5F0666-02 06/15/2005
SEMIVOLATILES (µg/L)									
Method SW8270									
1,2,4-Trichlorobenzene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichlorobenzene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichlorobenzene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,4-Dichlorobenzene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,5-Trichlorophenol	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,6-Trichlorophenol	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-Dichlorophenol	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-Dimethylphenol	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2,4-Dinitrophenol	25.0 U	27.8 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
2,4-Dinitrotoluene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,6-Dinitrotoluene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chloronaphthalene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorophenol	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Methylnaphthalene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Methylphenol	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2-Nitroaniline	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Nitrophenol	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3,3´-Dichlorobenzidine	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-,4-Methylphenol	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-Nitroaniline	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4,6-Dinitro-2-methylphenol	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Bromophenyl phenyl ether	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chloro-3-methylphenol	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chloroaniline	20.0 U	22.2 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
4-Chlorophenyl phenyl ether	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Nitroaniline	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Nitrophenol	25.0 U	27.8 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
Acenaphthene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acenaphthylene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Anthracene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (a) anthracene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (a) pyrene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (b) fluoranthene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (ghi) perylene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzo (k) fluoranthene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzoic Acid	50.0 U	55.6 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
Benzyl alcohol	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-chloroethoxy)methane	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-chloroethyl)ether	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bis(2-chloroisopropyl)ether	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Bis(2-ethylhexyl)phthalate	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Butyl benzyl phthalate	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chrysene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibenzo (a,h) anthracene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

BZTO104(e)021665

TABLE A-6
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - LOWER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW032D P5F0343-02 06/08/2005	LW035D P5F0554-03 06/13/2005	LW036D P5F0441-04 06/08/2005	LW037D P5F0441-05 06/08/2005	LW038D P5F0441-03 06/08/2005	LW039D P5F0441-02 06/08/2005	LW040D P5F0554-05 06/13/2005	Dup of LW040D Y P5F0554-01 06/13/2005	LW045D P5F0666-02 06/15/2005
Dibenzofuran	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Diethyl phthalate	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dimethyl phthalate	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Di-n-butyl phthalate	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Di-n-octyl phthalate	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Fluoranthene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Fluorene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobenzene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Hexachlorobutadiene	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Hexachlorocyclopentadiene	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Hexachloroethane	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Indeno (1,2,3-cd) pyrene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Isophorone	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Nitrobenzene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
N-Nitrosodi-n-propylamine	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
N-Nitrosodiphenylamine	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Pentachlorophenol	10.00 U	11.1 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Phenanthrene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Phenol	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Pyrene	5.00 U	5.56 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachlorophenols (2)	25.0 U	27.8 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
PAHS (µg/L) **Method SW8270SIM**									
Acenaphthene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Acenaphthylene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Anthracene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Benzo (a) anthracene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Benzo (a) pyrene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Benzo (b) fluoranthene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Benzo (ghi) perylene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Benzo (k) fluoranthene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Chrysene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Dibenzo (a,h) anthracene	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Fluoranthene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Fluorene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Indeno (1,2,3-cd) pyrene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Naphthalene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Phenanthrene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Pyrene	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U

TABLE A-6
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - LOWER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW032D P5F0343-02 06/08/2005	LW035D P5F0554-03 06/13/2005	LW036D P5F0441-04 06/08/2005	LW037D P5F0441-05 06/08/2005	LW038D P5F0441-03 06/08/2005	LW039D P5F0441-02 06/08/2005	LW040D P5F0554-05 06/13/2005	Dup of LW040D Y P5F0554-01 06/13/2005	LW045D P5F0666-02 06/15/2005
VOLATILES (µg/L)									
Method SW8260									
1,1,1,2-Tetrachloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,1-Trichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2,2-Tetrachloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2-Trichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,3-Trichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,3-Trichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trimethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dibromo-3-chloropropane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dibromoethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3,5-Trimethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
2,2-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
2-Butanone	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2-Chlorotoluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
2-Hexanone	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-Chlorotoluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
4-Methyl-2-pentanone	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acetone	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
Benzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromodichloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromoform	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromomethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Carbon disulfide	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
Carbon tetrachloride	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroform	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloromethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
cis-1,2-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
cis-1,3-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dibromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dibromomethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

TABLE A-6
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - LOWER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW032D P5F0343-02 06/08/2005	LW035D P5F0554-03 06/13/2005	LW036D P5F0441-04 06/08/2005	LW037D P5F0441-05 06/08/2005	LW038D P5F0441-03 06/08/2005	LW039D P5F0441-02 06/08/2005	LW040D P5F0554-05 06/13/2005	Dup of LW040D Y P5F0554-01 06/13/2005	LW045D P5F0666-02 06/15/2005
Ethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Hexachlorobutadiene	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U
Isopropylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
m,p-Xylene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methyl tert-butyl ether	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methylene chloride	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
n-Butylbenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
n-Propylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
o-Xylene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
p-Isopropyltoluene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
sec-Butylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Styrene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
tert-Butylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrachloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
trans-1,2-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
trans-1,3-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichlorofluoromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl chloride	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
TOTAL PETROLEUM HYDROCARBONS (µg/L) Method NWTPH-Dx/NWTPHg									
Diesel Range Organics	250 U	250 U	250 U	250 U	250 U	250 U	250 UJ	294 U	250 U
Heavy Oil Range Hydrocarbons	500 U	500 U	500 U	500 U	500 U	500 U	500 UJ	588 U	500 U
Gasoline Range Hydrocarbons	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U
PRIORITY POLLUTANT METALS (µg/L) Method 6010/6020									
Antimony	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Arsenic	**9.59**	**1.47**	**1.06**	1 U	**4.38**	**1.05**	**4.22**	**4.46**	**47.9**
Beryllium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.16**
Cadmium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chromium	**1.75**	**3.65**	1 U	1 U	1 U	1 U	**26.5**	**27.2**	**39.8**
Copper	**2.49**	**4.49**	2 U	2 U	2 U	2 U	**34**	**34.7**	**40.9**
Lead	**1.62**	**3.1**	1 U	1 U	1 U	1 U	**8.08**	**8.61**	**26.8**
Nickel	**2.83**	**11.3**	2 U	2 U	2 U	**3.65**	**31.9**	**33.5**	**48.4**
Selenium	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Silver	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.03**
Thallium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Zinc	**9.92**	**14.6**	5 U	5 U	5 U	5 U	**75.3**	**77**	**110**
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

TABLE A-6
PHASE III REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - LOWER ZONE WELLS
SECOND QUARTER SAMPLING EVENT, JUNE 2005
TIME OIL NORTHWEST TERMINAL

	LW032D P5F0343-02 06/08/2005	LW035D P5F0554-03 06/13/2005	LW036D P5F0441-04 06/08/2005	LW037D P5F0441-05 06/08/2005	LW038D P5F0441-03 06/08/2005	LW039D P5F0441-02 06/08/2005	LW040D P5F0554-05 06/13/2005	Dup of LW040D Y P5F0554-01 06/13/2005	LW045D P5F0666-02 06/15/2005
DISSOLVED METALS (µg/L)									
Method 6010/6020									
Antimony (dissolved)	NA	NA	1 U	1 U	1 U	1 U	NA	NA	NA
Arsenic (dissolved)	NA	NA	1 U	1 U	**3.49**	**1.16**	NA	NA	NA
Beryllium (dissolved)	NA	NA	1 U	1 U	1 U	1 U	NA	NA	NA
Cadmium (dissolved)	NA	NA	1 U	1 U	1 U	1 U	NA	NA	NA
Chromium (dissolved)	NA	NA	2 U	2 U	2 U	2 U	NA	NA	NA
Copper (dissolved)	NA	NA	2 U	2 U	2 U	2 U	NA	NA	NA
Lead (dissolved)	NA	NA	1 U	1 U	1 U	1 U	NA	NA	NA
Nickel (dissolved)	NA	NA	2 U	2 U	2 U	**3.11**	NA	NA	NA
Selenium (dissolved)	NA	NA	2 U	2 U	2 U	2 U	NA	NA	NA
Silver (dissolved)	NA	NA	1 U	1 U	1 U	1 U	NA	NA	NA
Thallium (dissolved)	NA	NA	1 U	1 U	1 U	1 U	NA	NA	NA
Zinc (dissolved)	NA	NA	5 U	5 U	5 U	5 U	NA	NA	NA
Mercury (dissolved)	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA
CONVENTIONALS (µg/L)									
Total Dissolved Solids	**361000**	**324000**	**84000**	**86000**	**101000**	**119000**	**189000**	**191000**	**182000**
Chloride	**3530**	**1680**	**1750**	**2810**	**4100**	**4000**	**2080**	**2040**	**1540**
FIELD PARAMETERS									
pH (avg)	6.96	6.13	6.75	6.30	6.72	5.83	6.16	6.19	5.46
Temperature (° C) (avg)	15.3	14.0	15.8	14.4	16.0	14.3	14.3	13.9	14.2
Conductivity (mS/cm) (avg)	397	410	65	93	80	132	140	140	166
Dissolved oxygen (mg/L) (avg)	4.26	8.83	3.65	9.97	3.02	11.35	6.10	5.97	3.18
Turbidity (NTU)	0	89	0	1	0	0	999	999	999

NA = Not analyzed.
U = Indicates compound was analyzed for, but was not detected at the reported sample detection limit
UJ = The analyte was not detected in the sample; the reported sample detection limit is an estimate
Bold indicates detected constituent.

BZTO104(e)021669

TABLE A-7
SECOND QUARTER 2005 GROUNDWATER DATA - DETECTED ANALYTES
NEARSHORE WELLS
TIME OIL NORTHWEST TERMINAL

		River Bank Wells								Shoreline (Beach) Wells			
	Minimum Preliminary Screening Level	LW006D P5F0553-03 06/14/2005	LW009D P5F0553-04 06/14/2005	LW022D P5F0554-02 06/13/2005	LW023D P5F0441-13 06/10/2005	LW024D P5F0554-07 06/14/2005	Dup of LW024D X P5F0554-06 06/14/2005	LW025D P5F0441-12 06/10/2005	LW035D P5F0554-03 06/13/2005	LW036D P5F0441-04 06/08/2005	LW037D P5F0441-05 06/08/2005	LW038D P5F0441-03 06/08/2005	LW039D P5F0441-02 06/08/2005
PAHS (µg/L)													
Method SW8270SIM													
Acenaphthene	520 (a)	NA	NA	0.100 U	**0.356**	NA	**1.27**	**1.07**	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Anthracene	13 (b)	NA	NA	0.100 U	0.100 U	NA	0.150 U	**0.257**	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Fluoranthene	6.16 (b)	NA	NA	0.100 U	0.100 U	NA	**0.154**	**0.350**	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Fluorene	3.9 (b)	NA	NA	0.100 U	**0.160**	NA	**3.01**	**2.14**	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Phenanthrene	620 (a)	NA	NA	0.100 U	0.100 U	NA	**1.35**	**1.23**	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Pyrene	4000 (c)	NA	NA	0.100 U	0.100 U	NA	**0.2**	**0.416**	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
VOLATILES (µg/L)													
Method SW8260													
Benzene	51 (c)	1.00 U	1.00 U	1.00 U	**64.6**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Isopropylbenzene	130 (b)	2.00 U	2.00 U	2.00 U	**4.15**	**3.62**	**3.62**	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
n-Propylbenzene	130 (b)	1.00 U	1.00 U	1.00 U	**1.53**	**3.65**	**3.60**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
sec-Butylbenzene	130 (b)	**1.16**	1.00 U	1.00 U	1.00 U	**2.19**	**2.09**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
tert-Butylbenzene	130 (b)	**2.00**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
TOTAL PETROLEUM HYDROCARBONS (µg/L)													
Method NWTPH-Dx/NWTPHg													
Diesel-Range Organics	--	326	250 U	250 U	250 U	NA	655	52	250 U	250 U	250 U	250 U	250 U
Gasoline-Range Hydrocarbons	--	NA	109	80 U	241	NA	189	182	80 U	80 U	80 U	80 U	80 U
PRIORITY POLLUTANT METALS (mg/L)													
Method 6010/6020													
Arsenic	1.5 (d)	**0.002**	**0.0366**	**0.0757**	**0.0472**	NA	**0.0465**	**0.0235**	**0.00147**	**0.00106**	0.001 U	**0.00438**	**0.00105**
Beryllium	--	0.001 U	0.001 U	**0.0017**	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chromium	0.011 (b)	0.002 U	0.001 U	**0.0339**	**0.0114**	NA	**0.0105**	**0.00126**	**0.00365**	0.001 U	0.001 U	0.001 U	0.001 U
Copper	0.009 (e)	0.005 U	0.002 U	**0.0491**	**0.0182**	NA	**0.0149**	0.002 U	**0.00449**	0.002 U	0.002 U	0.002 U	0.002 U
Lead	0.02 (d)	0.001 U	0.001 U	**0.0213**	**0.00629**	NA	**0.00578**	**0.00186**	**0.0031**	0.001 U	0.001 U	0.001 U	0.001 U
Nickel	0.052 (f)	**0.001**	**0.00233**	**0.0497**	**0.0122**	NA	**0.013**	**0.00572**	**0.0113**	0.002 U	0.002 U	0.002 U	**0.00365**
Zinc	0.10 (b)	**0.002**	**0.00808**	**0.116**	**0.0315**	NA	**0.0328**	**0.00586**	**0.0146**	0.005 U	0.005 U	0.005 U	0.005 U
DISSOLVED METALS (mg/L)													
Method 6010/6020													
Arsenic (dissolved)	1.5 (d)	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	0.001 U	**0.00349**	**0.00116**
Nickel (dissolved)	0.052 (f)	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	0.002 U	0.002 U	**0.00311**

U = Indicates the compound was undetected at the reported concentration.
NA = Not Analyzed.

Preliminary Screening Levels:
- (a) Oregon Screening Level Values (SLVs), surface water - aquatic and Oregon Ambient Water Quality Criteria (AWQC), Tables 20 and 33A, fresh water, acute.
- (c) Oregon AWQC, Tables 20 and 33A, fish consumption only and National Recommended Water Quality Criteria, organism only
- (b) Oregon Screening Level Values (SLVs) - surface water, aquatic.
- (d) Site-specific background concentrations (Phase I and II Contaminants of Potential Concern Screening Report, Time Oil Northwest Terminal, Landau Associates, September 10, 1999)
- (e) Oregon Screening Level Values (SLVs), surface water - aquatic and National Recommended Water Quality Criteria, fresh water chronic.
- (f) Oregon AWQC, fresh water acute and fresh chronic.

Notes:
Bolded values are detected concentrations.
Outlined values are detected concentrations that exceed the minimum screening level.

BZTO104(e)021670

TABLE A-8
SECOND QUARTER 2005 TOTAL AND DISSOLVED METALS IN SHORELINE WELLS - DETECTED ANALYTES TIME OIL NORTHWEST TERMINAL

	Minimum Preliminary Screening Level	Shoreline (Beach) Wells			
		LW036D P5F0441-04 06/08/2005	LW037D P5F0441-05 06/08/2005	LW038D P5F0441-03 06/08/2005	LW039D P5F0441-02 06/08/2005
PRIORITY POLLUTANT METALS (µg/L)					
Method 6010/6020					
Arsenic	1500 (a)	**1.06**	1 U	**4.38**	**1.05**
Nickel	52 (d)	2 U	2 U	2 U	**3.65**
DISSOLVED METALS (µg/L)					
Method 6010/6020					
Arsenic (dissolved)	1500 (a)	1 U	1 U	**3.49**	**1.16**
Nickel (dissolved)	52 (d)	2 U	2 U	2 U	**3.11**

U = Indicates the compound was undetected at the reported concentration

Preliminary Screening Levels

(a) Site-specific background concentrations (*Phase I and II Contaminants of Potential ConcernScreening Report, Time Oil Northwest Terminal*, Landau Associates 1999).

(b) Oregon AWQC, fresh water acute and fresh chronic

Note: Bolded values are detected concentrations.

APPENDIX B

Groundwater Interim Action Recovery Summary

TABLE B-1
GROUNDWATER INTERIM ACTION OPERATIONAL HISTORY
UPPER AND LOWER WATER-BEARING ZONES
TIME OIL NORTHWEST TERMINAL

Monitoring Period	RW-2 Discharge				HRW-1 Discharge				SDM-1 Discharge				Treatment System Discharge			Comments
	Volume of Water Pumped (gal)	Sample Date	PCP Concentration (µg/L)	Estimated PCP Mass Removal (lb)	Volume of Water Pumped (gal)	Sample Date	PCP Concentration (µg/L)	Estimated PCP Mass Removal (lb)	Volume of Water Pumped (gal)	Sample Date	PCP Concentration (µg/L)	Estimated PCP Mass Removal (lb)	Volume of Water Treated (gal)	Sample Date	Discharge PCP Concentration (µg/L)	
Fourth Quarter 2000																
October 2000	439,003			0.35									0			Mass removal calculated using November 2000 PCP concentration.
November 2000	305,601	11/9/2000	95	0.24									467,478	11/7/2000	ND (a)	
December 2000	348,720	12/20/2000	39	0.11									497,656	12/6/2000	5.89	
														12/20/2000	9.73	
Quarterly Totals	*1,093,324*			*0.70*									*965,134*			
First Quarter 2001																
January 2001	416,140	1/18/2001	38.8	0.13									239,207	1/18/2001	14.3	
February 2001	335,008	2/13/2001	30	0.08									184,192			
March 2001	332,963	3/7/2001	ND (b)	0.03									517,332	3/7/2001	ND (b)	
Quarterly Totals	*1,084,111*			*0.25*									*940,731*			
Second Quarter 2001																
April 2001	377,931			0.04									275,519			Mass removal calculated using May 2001 PCP concentration.
May 2001	344,252	5/22/2001	12.3	0.04									195,522	5/22/2001	5.29	
June 2001	361,846	6/4/2001	0.68	0.00									563,853			
Quarterly Totals	*1,084,029*			*0.08*									*1,034,894*			
Third Quarter 2001																
July 2001	351,509			0.01									559,015			Mass removal calculated using August 2001 PCP concentration.
August 2001	486,123	8/13/2001	5	0.02									66,876			
Quarterly Totals	*837,632*			*0.03*									*625,891*			
Fourth Quarter 2001																
October 2001	393,168	10/11/2001	ND (a)	0.01									484,158	10/11/2001	ND (a)	
November 2001	319,798			0.01									118,786	11/1 & 11/15/01	ND (a)	Mass removal calculated using December 2001 PCP concentration.
December 2001	361,058	12/6/2001	ND (c)	0.01									717,769	12/6/2001	ND (c)	
Quarterly Totals	*1,074,024*			*0.02*									*836,555*			
First Quarter 2002																
January 2002	331,224			0.02	1,812			0.01					340,688			Recovered groundwater from HRW-1 from January 22-29. Re-initiated groundwater recovery from HRW-1 on February 28.
February 2002	282,480	2/27/2002	8.6	0.02	58			0.00					437,943			HRW-1 mass removal estimates for January and February are based on the March 12 sampling event.
March 2002	280,814			0.02	40,294	3/12/2002	786	0.26					234,816			RW-2 mass removal estimates for January and March are based on February 27 sampling event.
Quarterly Totals	*894,518*			*0.06*	*42,164*			*0.28*					*1,013,447*			
Second Quarter 2002																
April 2002	292,099			0.19	74,996	4/5/2002	94	0.06					391,263	4/5/02	34.4	RW-2 mass removal estimates for April and May are based on June 27 sampling event.
														4/22/02	9.33	
May 2002	310,584			0.20	23,427	5/29/2002	452	0.09					247,440			
June 2002	272,393	6/27/2002	76	0.17	25,484	6/25/2002	410	0.09					307,810			
Quarterly Totals	*875,076*			*0.56*	*123,907*			*0.23*					*946,513*			

BZTO104(e)021673

TABLE B-1
GROUNDWATER INTERIM ACTION OPERATIONAL HISTORY
UPPER AND LOWER WATER-BEARING ZONES
TIME OIL NORTHWEST TERMINAL

Monitoring Period	RW-2 Discharge				HRW-1 Discharge				SDM-1 Discharge				Treatment System Discharge			Comments
	Volume of Water Pumped (gal)	Sample Date	PCP Concentration (µg/L)	Estimated PCP Mass Removal (lb)	Volume of Water Pumped (gal)	Sample Date	PCP Concentration (µg/L)	Estimated PCP Mass Removal (lb)	Volume of Water Pumped (gal)	Sample Date	PCP Concentration (µg/L)	Estimated PCP Mass Removal (lb)	Volume of Water Treated (gal)	Sample Date	Discharge PCP Concentration (µg/L)	
Third Quarter 2002																
July 2002	272,771			0.08	51,111			0.18					188,300	7/24/2002	2.09	
August 2002	270,746	8/27/2002	36	0.08	7								301,613	8/20/2002	9.15	HRW-1 shut down on July 24 due to dry pumping conditions and potential biofouling of the well. HRW-1 mass removal rate estimate based on June 2002 data.
September 2002	143,662			0.04	0				110,000	9/23/2002	47.0		369,469	9/23/2002	11.8	RW-2 temporarily shut down on September 25. Water being intercepted from SDM-1 and pumped to treatment system beginning on September 16.
Quarterly Totals	*687,179*				*51,118*				*110,000*		*47.0*		*859,382*			RW-2 mass removal rates based on August 27 sampling event. Total Volume pumped from SDM-1 estimated based on throughout of WWTP and volume recovered from RW-2; Flowmeter to be installed for SDM-1 in October 2002.
Fourth Quarter 2002																
October 2002	177,937			0.06 0.09	0				Not metered				112,129	10/3/2002	8.84	
November 2002	275,033	11/13/2002	37		0				95,157				399,747			The storage tank gauge was moved to groundwater sump SDM-1 on November 1.
December 2002	418,846			0.13	0				124,894				507,766			
Quarterly Totals	*871,816*			*0.27*	0				*220,051*				*1,019,642*			RW-2 mass removal rates based on November 13 sampling event.
First Quarter 2003																
January 2003	417,646			0.12	0				166,663			0.40	574,451	1/15/2003	11.6	
February 2003	398,299	2/11/2003	33	0.11	0				192,395	2/13/2003	290	0.47	483,579			
March 2003	458,160			0.13	0				210,400			0.51	624,807			SDM-1 mass removal rates based on February 13 sampling event.
Quarterly Totals	*1,274,105*			*0.35*	0				*569,458*			*1.38*	*1,371,258*			RW-2 mass removal rates based on February 11 sampling event.
Second Quarter 2003																
April 2003	445,275			0.04	0				55,037			0.00	481,816	4/9/2003	22.2	
May 2003	455,994	5/7/2003	12	0.05	0	Not Analyzed			0	5/7/2003	0.93	0.00	469,079			
June 2003	385,658			0.04	4,175				89,243			0.00	446,127			RW-2 mass removal rates based on April 8, 2003 sampling event.
Quarterly Totals	*1,286,927*			*0.13*	*4,175*				*144,280*			*0.00*	*1,397,022*			
Third Quarter 2003																
July 2003	330,738	7/28/2003	<5.0	0.01	30,104	7/28/2003	370	0.09	128,562	7/28/2003	409	0.44	441,023	7/11/2003	87.4	Multiple treatment system discharge samples collected and analyzed due to upset
														7/30/2003	8.6	concentration (87.4 ug/L) reported for July 11, 2003 sampling event. Additional discharge samples in response to request from City of Portland.
August 2003	366,307	8/27/2003	10	0.03	7,388			0.02	119,831	8/27/2003	120	0.12	397,748	8/4/2003	<5.0	
														8/6/2003	<5.0	HRW-1 mass removal rates based on July 28 sampling event.
														8/11/2003	<4.76	
														8/13/2003	<4.83	SDM-1 mass removal rates based on July 28 sampling event.
														8/18/2003	<4.75	
														8/20/2003	<5.16	RW-2 mass removal rates based on August 27 sampling event.
														8/25/2003	23.8	
														8/27/2003	36.5	
September 2003	262,403			0.02	0			0.00	87,439			0.09	479,703	9/3/2003	19.3	
														9/5/2003	19.6	
														9/9/2003	7.09	
														9/23/2003	16.9	
														9/29/2003	5.96	
Quarterly Totals	*959,448*			*0.07*	*37,492*			*0.12*	*335,832*			*0.65*	*1,318,474*			

BZTO104(e)021674

TABLE B-1
GROUNDWATER INTERIM ACTION OPERATIONAL HISTORY
UPPER AND LOWER WATER-BEARING ZONES
TIME OIL NORTHWEST TERMINAL

Monitoring Period	RW-2 Discharge				HRW-1 Discharge				SDM-1 Discharge				Treatment System Discharge			Comments
	Volume of Water Pumped (gal)	Sample Date	PCP Concentration (µg/L)	Estimated PCP Mass Removal (lb)	Volume of Water Pumped (gal)	Sample Date	PCP Concentration (µg/L)	Estimated PCP Mass Removal (lb)	Volume of Water Pumped (gal)	Sample Date	PCP Concentration (µg/L)	Estimated PCP Mass Removal (lb)	Volume of Water Treated (gal)	Sample Date	Discharge PCP Concentration (µg/L)	
Fourth Quarter 2003																
October 2003	298,092	10/23/2003	8.1	0.02					74,025	10/20/2003	43	0.03	350,921	10/6/2003	<4.75	Multiple treatment system discharge samples collected and analyzed due to upset
														10/13/2003	<4.76	concentration (87.4 ug/L) reported for July 11, 2003 sampling event. Additional
														10/20/2003	<4.84	discharge samples in response to request from City of Portland.
														10/30/2003	<5.19	
November 2003	216,630			0.01					45,472			0.02	216,711	11/3/2003	<4.73	
														11/10/2003	<4.78	SDM-1 mass removal rates based on October 20 sampling event.
														11/17/2003	<4.84	
														11/21/2003	<4.79	RW-2 mass removal rates based on October 23 sampling event.
December 2003	367,462			0.02					95,504			0.03	488,055	12/1/2003	<4.79	
														12/15/2003	<4.92	
														12/29/2003	30.4	
Quarterly Totals	*882,184*			*0.06*					*335,832*			*0.08*	*3,692,635*			
First Quarter 2004																
January 2004	348,926	2/23/2004	8.69	0.03					141,282	2/23/2004	791	0.93	367,831	1/15/2004	32.1	
														1/23/2004	45.7	
														1/26/2004	31.9	
February 2004	267,665			0.02					197,525			1.31	321,085	2/19/2004	57.2	
March 2004	246,667			0.02					17,825			0.12	197,621	3/2/2004	112	
														3/4/2004	48.5	Multiple treatment system discharge samples collected due to upset.
														3/16/2004	113	
														3/19/2004	85.9	
														3/24/2004	6.23	
														3/26/2004	7.07	
Quarterly Totals	*863,258*			*0.06*					*356,632*			*2.36*	*886,537*			
Second Quarter 2004																
April 2004	190,512	6/9/2004	47.3	0.08	0	6/9/2004	278	0.00					315,554	4/22/2004	194	
May 2004	87,481			0.03	3,624			0.01	146	6/9/2004	595	0.001	242,530	5/19/2004	39.3	SDM-1 flow meter replaced May 28, 2004
														5/27/2004	5.81	
June 2004	168,615			0.07	6,681			0.02	44,155			0.22	263,730	6/3/2004	ND	
														6/9/2004	7.55	
														6/15/2004	8.78	
Quarterly Totals	*446,608*			*0.18*	*10,305*			*0.02*	*44,301*			*0.22*	*821,814*			
Third Quarter 2004																
July 2004	210,710	8/5/2004	13.5	0.02	0	8/5/2004	16.6	0.00	58,561	8/5/2004	158	0.08	343,028	7/7/2004	37.5	
August 2004	299,000			0.03	1,700			0.0002	56,900			0.08	667,180	8/10/2004	ND	
September 2004	329,619			0.04	719			0.0001	36,500			0.05	348,620	9/17/2004	ND	
														9/30/2004	ND	
Quarterly Totals	*839,329*			*0.09*	*2,419*			*0.00*	*151,961*			*0.20*	*1,358,828*			

BZTO104(e)021675

TABLE B-1
GROUNDWATER INTERIM ACTION OPERATIONAL HISTORY
UPPER AND LOWER WATER-BEARING ZONES
TIME OIL NORTHWEST TERMINAL

Monitoring Period	RW-2 Discharge				HRW-1 Discharge				SDM-1 Discharge				Treatment System Discharge			Comments
	Volume of Water Pumped (gal)	Sample Date	PCP Concentration (µg/L)	Estimated PCP Mass Removal (lb)	Volume of Water Pumped (gal)	Sample Date	PCP Concentration (µg/L)	Estimated PCP Mass Removal (lb)	Volume of Water Pumped (gal)	Sample Date	PCP Concentration (µg/L)	Estimated PCP Mass Removal (lb)	Volume of Water Treated (gal)	Sample Date	Discharge PCP Concentration (µg/L)	
Fourth Quarter 2004																
October 2004	226,975	11/9/2004	2.12	0.004	62	11/11/2004	ND (d)	0	30,347	11/11/2004	1.61	0.0004	137,056			
November 2004	290,700			0.005	0			0	42,400			0.001	395,562	11/10/2004 11/19/2004	ND ND	
December 2004	391,500			0.007	1,200			0	65,000			0.001	470,334	12/17/2004	6.92	
Quarterly Totals	*909,175*			*0.016*	*1,262*			*0.00*	*137,747*			*0.002*	*1,002,952*			
First Quarter 2005																
January 2005	478,600			0.005	4,000			0.0003	110,400			0.007	548,870	1/10/2005	ND	
February 2005	275,000	2/23/2005	1.13	0.003	4,700	2/18/2005	10.2	0.0004	68,800	2/18/2005	7.2	0.004	301,515	2/17/2005	ND	
March 2005	485,200			0.005	9,300			0.0008	148,400			0.009	449,041	3/17/2005	ND	
Quarterly Totals	*1,238,800*			*0.012*	*18,000*			*0.002*	*327,600*			*0.020*	*1,299,426*			
Second Quarter 2005																
April 2005	317,600				10,000				102,400				333,215	4/7/2005	ND	
May 2005	246,400				9,000				27,300				364,419	5/11/2005	ND	
June 2005	153,800	6/6/2005	ND	0	21,300	NA		0	0	NA		0	176,860	6/15/2005	ND	SDM-1 pump broken, no volume pumped, no sample collected. HRW-1 dry, no sample collected.
Quarterly Totals	*717,800*			*0*	*40,300*			*0*	*129,700*			*0*	*874,494*			
Grand Totals	***17,919,343***			***2.950***	***331,142***			***0.6534***	***2,863,394***			***4.9037***	***22,265,629***			

ND = Not Detected.

(a) PCP not detected above the detection limit of 5 µg/L; concentration-dependent calculations based on half the detection limit.
(b) PCP not detected above the detection limit of 25 µg/L; concentration-dependent calculations based on half the detection limit.
(c) PCP not detected above the detection limit of 5.25 µg/L; concentration-dependent calculations based on half the detection limit.
(d) PCP not detected above the detection limit of 0.473 µg/L.

BZTO104(e)021676

APPENDIX C

Measurement and Evaluation Procedures

APPENDIX C
MEASUREMENT AND EVALUATION PROCEDURES

This appendix discusses the procedures for conducting groundwater level and product (where observed) measurements during the quarterly groundwater events and the method used to evaluate the groundwater elevations.

MEASUREMENT PROCEDURES

Groundwater level measurements and the check for the presence of product were conducted using an electronic oil-water interface probe. Measurements were taken from the top of the PVC well casing at a marked survey point or at the north side of the casing, and recorded to the nearest 0.01 ft. Measurements in the Willamette River were taken from a surveyed PK nail with washer located on the south side of the dock. Surveyed reference elevations for each water level measurement location, obtained by a licensed land surveyor (ZTec Engineers, Inc., Portland, Oregon), are shown in Table A-2 of this report.

Water level measurements for the quarterly event were obtained over about a 2.5-hour period beginning at about 2.5 hours after a predicted mean river stage, based on predictions for the St. Johns station on the Willamette River. The timing for water level measurements was scheduled to estimate a mean water level elevation or elevation minimally influenced by river stage, and to reduce the time-dependent variation between wells screened in the same water-bearing zone. The timing of the water level measurements was based on average time lag calculations presented in the additional groundwater investigation technical memorandum (Landau Associates 1998), aquifer test report (Landau Associates 1999), and previous quarterly measurements.

GROUNDWATER LEVEL EVALUATION METHODS

For evaluation purposes, the groundwater level measurements were converted from depth-to-water readings to groundwater elevations using the survey information for each location. At locations where product was observed, the groundwater elevations were adjusted to account for the presence of product using the method defined by Lenhard and Parker (1990). Groundwater elevations for the upper and lower zones were contoured using GIS/Key or manually in conjunction with the evaluations conducted to evaluate the capture zone of the groundwater interim action for the upper and lower zones.

BZTO104(e)021678

GROUNDWATER SAMPLING PROCEDURES

Groundwater samples were collected from the shallow wells using a peristaltic pump attached to dedicated polyethylene tubing immediately following purging. The deep wells were sampled with disposable bailers, with the following exceptions: the sample from RW-2 was collected from the in-line sampling port on the groundwater interim action system, and the sample from the groundwater intercept system at SDM-1 was collected from the discharge line at the output into Tank 16804. Wells were purged using a peristaltic pump or a centrifugal purge pump. Purging continued until at least 3 casing volumes of water had been removed and specific conductance and temperature had stabilized or until the well purged dry. Four replicate measurements of field parameters (pH, conductivity, dissolved oxygen, turbidity, and temperature) were collected at each well during sampling. To prevent degassing of volatile organic compounds during sampling, the pumping rate was maintained below about 100 milliliters per minute. All sampling was conducted in accordance with the Phase I/II RI/FS work plan (Landau Associates 1996) and appropriate provisions of the revised quality assurance project plan and project health and safety plan (Landau Associates 2001). A more detailed description of groundwater sampling procedures is provided in the Phase II RI report (Landau Associates 2000).

REFERENCES

Landau Associates. 2001. *Work Plan, Phase III Remedial Investigation, Time Oil Northwest Terminal, Portland, Oregon.* June 18.

Landau Associates. 2000. Report: *Phase II Remedial Investigation, Time Oil Co. Northwest Terminal.* Prepared for: Time Oil Co., Seattle, Washington. April 6.

Landau Associates. 1999. *Aquifer Test Report, Time Oil Northwest Terminal, Portland, Oregon.* Prepared for: Time Oil Co., Seattle, Washington. December 20.

Landau Associates. 1998. Technical Memorandum: *Additional Groundwater Investigation, January-February 1998, Time Oil Northwest Terminal, Portland, Oregon.* Prepared for: Oregon Department of Environmental Quality, Portland, Oregon. July 28.

Landau Associates. 1996. *Work Plan, Phases I and II, Remedial Investigation/Feasibility Study, Time Oil Co. Northwest Terminal.* Prepared for: Time Oil Co., Seattle, Washington. May 10.

Lenhard and Parker. 1990. "Estimation of Free Hydrocarbon Volume from Fluid Levels in Monitoring Wells. *Groundwater.* 28(1):57-57.

APPENDIX D

Summary of Modifications to Quarterly Groundwater Analysis Program

APPENDIX D
SUMMARY OF MODIFICATIONS TO QUARTERLY GROUNDWATER ANALYSIS PROGRAM

A summary of modifications to the Phase II RI quarterly groundwater monitoring program for the Time Oil Northwest Terminal in Portland, Oregon is presented below by the date of first implementation. A reference list for the modifications is included.

- ***Second Quarter 1998*** (Landau Associates 1998; DEQ 1998):
  - Annual sampling of east property wells LW-101S, LW-102S, LW-103S, and LW-104S
  - Elimination of 2-chloroethylvinylether from the volatile analyte list
  - Reduction of the suite of metals analyses to include only arsenic, chromium, copper, lead, nickel, and zinc
  - Quarterly analysis of only metals in well K and only chlorinated phenols and metals in well H
  - Elimination of PCB analysis
  - Annual analysis for major ions; quarterly analysis for chloride and dissolved oxygen.

- ***First Quarter 1999*** (Landau Associates 1999; Urbanowicz, K., 12 February 1999, personal communication):
  - Analysis of polycyclic aromatic hydrocarbons (PAHs) using analytical techniques that provide lower detection limits at upper zone wells LW-2S, LW-7S and LW-101S and at lower zone wells G1A, O, and LW-4D for the first quarter 1999 event only
  - Elimination of sampling at well J3.

- ***Second Quarter 2000*** (Landau Associates 2000a; DEQ 2000):
  - Elimination of dioxin/furan analyses.

- ***Third Quarter 2000*** (Landau Associates 2000b; Roick 2000):
  - Reduction of sampling frequency of wells H, L, and LW-5S from quarterly to annually.

- ***Second Quarter 2001*** (Landau Associates 2001a, 2001b; Roick 2001):
  - Reduction of the list of chlorinated phenols being analyzed by EPA Method 8040 to pentachlorophenol (PCP) only using EPA Method 8270 SIM
  - Reduction of the frequency of total petroleum hydrocarbon (TPH) analysis from quarterly to annually at upper zone wells J1 and LW-1S; lower zone wells B2, J2, LW-1D; and deep sand unit well LW-12D2. In addition, TPH analysis was eliminated for the following wells: upper zone wells D, L, LW-5S, LW-101S through -104S, and lower zone well LW-3D.

- ***First Quarter 2004*** (Landau Associates 2004; Roick 2005):
  - Elimination of eight wells from the Phase II sampling program for future events. These wells included five upper zone wells (H, K, L, LW-1S, and LW-5S), and three lower zone wells (O, R, LW-1D).

BZTO104(e)021681

- Reduction of the monitoring frequency for selected Phase II wells from quarterly to semiannually. These wells include: B1, B2, D, J1, J2, LW-3D, LW-4S, LW-4D, LW-11S, LW-11D, LW-13S, LW-14D, LW-17D, LW-18D, OX-1S through OX-8S, OX-8D, and RW-1. Semiannual sampling of these wells will be conducted in conjunction with the first and third quarter sampling of the Phase III wells.

REFERENCES

DEQ. 2005. Letter: *Recommendation for Reduction of Sampling Frequency, Phase II Monitoiring Wells, Time Oil Northwest Terminal.* From Thomas E. Roick, Oregon Department of Environmental Quality, to Mark Chandler, Time Oil Co. July 26.

DEQ. 2000. Letter: *Dioxin/Furans Groundwater Analysis, Time Oil Northwest Terminal.* From Thomas E. Roick, Oregon Department of Environmental Quality, to Kevin Murphy, Time Oil Co. May 18.

DEQ. 1998. Letter: *Groundwater Quality Sampling, Time Oil Co. Northwest Terminal.* From Karla Urbanowicz, Oregon Department of Environmental Quality, to Kevin Murphy, Time Oil Co. May 15.

Landau Associates. 2004. *Letter: Recommendation for Reduction of Sampling Frequency, Phase II Monitoring Wells, Time Oil Northwest Terminal.* To Tom Roick, Oregon Department of Environmental Quality. February 2.

Landau Associates. 2001a. Letter: *Recommendation for Reduction of Analyses, Time Oil Northwest Terminal, Portland, Oregon.* To Tom Roick, Oregon Department of Environmental Quality. January 30.

Landau Associates. 2001b. Letter: *Recommendation for Reduction of TPH Analyses, Time Oil Northwest Terminal, Portland, Oregon.* To Tom Roick, Oregon Department of Environmental Quality. May 17.

Landau Associates. 2000a. Letter: *Discontinuing Dioxin/Furan Analyses, Time Oil Northwest Terminal, Portland, Oregon.* To Tom Roick, Oregon Department of Environmental Quality. May 16.

Landau Associates. 2000b. Letter: *Recommended Reduction of Wells for Quarterly Monitoring, Time Oil Northwest Terminal, Portland, Oregon.* To Tom Roick, Oregon Department of Environmental Quality. August 9.

Landau Associates. 1999. Letter: *Time Oil Northwest Terminal, Portland, Oregon.* To Karla Urbanowicz, Oregon Department of Environmental Quality. January 21.

Landau Associates. 1998. Letter: *Time Oil Northwest Terminal, Portland, Oregon.* To Karla Urbanowicz, Oregon Department of Environmental Quality. May 4.

Roick, T.E. 2001. E-mail message from Thomas E. Roick, Oregon Department of Environmental Quality, to Rebekah Brooks, Landau Associates. Re: *Reduction of Total Petroleum Hydrocarbon Analysis, Time Oil Co. Northwest Terminal.* May 30.

Roick, T.E. 2000. E-mail message from Thomas E. Roick, Oregon Department of Environmental Quality, to Rebekah Brooks, Landau Associates. Re: *Time Oil Groundwater Monitoring.* August 15.

Urbanowicz, K. 12 February 1999. Personal communication (telephone conversation with Rebekah Brooks, Landau Associates, Edmonds, Washington). Re: *Approval of Additional Modification to Groundwater Sampling and Analysis Program, Time Oil Northwest Terminal, Portland, Oregon.* Karla Urbanowicz, Oregon Department of Environmental Quality, Portland, Oregon.

BZTO104(e)021682

APPENDIX E

Data Validation Report

TECHNICAL MEMORANDUM

LANDAU ASSOCIATES
ENVIRONMENTAL | GEOTECHNICAL | NATURAL RESOURCES

TO: Rebekah Brooks, Landau Associates

CC: Tom Roick, DEQ
Mark Chandler, Time Oil Co.
Patty Dost, Schwabe, Williamson & Wyatt
Mike Tischuk, Beazer East, Inc.

FROM: April Wallace and Anne Halvorsen, Landau Associates

DATE: August 8, 2005

RE: 2ND QUARTER 2005 GROUNDWATER MONITORING LABORATORY DATA QUALITY EVALUATION TIME OIL NORTHWEST TERMINAL

INTRODUCTION

This technical memorandum provides the results of a data quality evaluation for 65 groundwater samples and 8 trip blanks collected at the Time Oil Northwest Terminal June 6 through June 15, 2005, for the Phase II/III Remedial Investigation (RI) second quarter 2005 groundwater monitoring event. A data quality evaluation was performed for analysis of volatile organic compounds [VOCs; U.S. Environmental Protection Agency (EPA) Method 8260B]; semivolatile organic compounds (SVOCs; EPA Method 8270C); total petroleum-range hydrocarbons (NWTPH-Dx and NWTPH-G); polycyclic aromatic hydrocarbons [PAH; EPA Method 8270 with selected ion monitoring (SIM)]; pentachlorophenol (PCP; EPA Method 8270 SIM); selected total and dissolved priority pollutant (PP) metals (EPA Methods 6020 and 7470A); dioxins and furans (EPA Method 1613B); chloride (EPA Method 300.0); and total dissolved solids (TDS; EPA Method 160.1).

Analyses of groundwater samples were performed by North Creek Analytical, Inc. (NCA) located in Beaverton, Oregon; and Pace Analytical Services, Inc. (Pace) located in Minneapolis, Minnesota. This data quality evaluation covers NCA data packages P5F0223, P5F0342, P5F0343, P5F0441, P5F0443, P5F0444, P5F0553, P5F0554, P5F0666, and P5F0668, and Pace data packages 1014614 and 1015108.

The data quality evaluation was performed in accordance with the revised quality assurance project plan (QAPP) contained in Appendix C of the *Phase III Remedial Investigation* work plan (Landau Associates 2001), and with applicable portions of the EPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* and *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA 1994a,b).

The evaluation considered the following elements:

- Chain-of-custody records
- Holding times
- Method blank results
- Surrogate spike recoveries
- Matrix spike and matrix spike duplicate (MS/MSD) results
- Laboratory control sample (LCS) results
- Duplicate (laboratory and field) results
- Reporting limits
- Overall data quality and completeness.

Data validation qualifiers are added to sample results based on the evaluation of data quality. The absence of a data qualifier indicates that the datum is acceptable without qualification. Applicable data validation qualifiers are summarized in Table 1. The data quality evaluation is summarized below.

CHAIN-OF-CUSTODY RECORDS

Signed chain-of-custody (COC) records accompanied each data package. The laboratory received all samples in good condition. All requested analyses were performed with the following exceptions:

- Samples OX008D and OX008S were erroneously omitted from the COC for data package P5F0342. The laboratory was notified by telephone and desired analyses were requested and performed within specified holding times. No qualification of the data is necessary.

- The COC associated with data package P5F0666 erroneously indicated that a trip blank was submitted. No trip blank was submitted for analysis with this batch of samples. No qualification of the data is necessary.

- The COC associated with data package P5F0668 indicated that a trip blank was submitted with this batch of samples. The laboratory did not log in the trip blank upon receipt, and the trip blank was not analyzed for VOCs as requested. No qualification of the data is necessary.

- A trip blank was submitted with the samples associated with data package P5F0443 but was not recorded on the COC. The laboratory correctly analyzed the trip blank for VOCs and reported the associated sample results.

BZTO104(e)021685

HOLDING TIMES

For all analyses and all samples, the time between sample collection, extraction, and analyses was determined to be within EPA- and project-specified holding times. No qualification of the data is necessary.

METHOD BLANK RESULTS

Method blanks were analyzed with each batch of samples for each analysis. No contamination was detected in any of the method blanks, except as indicated in Table 1 and discussed below:

- Diesel was detected in the method blanks associated with the NWTPH-Dx analyses of data package P5F0666. Diesel was detected in samples LW020S, LW027D, and N at concentrations less than five times the method blank concentration; therefore these diesel values are qualified as nondetect (U), as indicated in Table 1. Diesel was either not detected or detected at concentrations greater than five times the method blank concentration in other associated project samples. No further qualification of the data is necessary.

FIELD BLANK RESULTS

In accordance with the QAPP, field equipment rinsate blanks were not collected (all sampling equipment was dedicated and/or disposable, which eliminated the potential for cross contamination). Eight field trip blanks were collected and submitted for laboratory analysis of VOCs in data packages P5F0223, P5F0342, P5F0343, P5F0441, P5F0443, P5F0444, P5F0553, and P5F0554. No trip blank was submitted with data package P5F0666, as discussed previously. No contamination was detected in any of the trip blanks. No qualification of the data is necessary.

SURROGATE SPIKE RECOVERIES

Surrogate spikes were performed with each organic analysis (or internal standards for dioxin/furan analysis). Recovery values for the surrogate spikes were within the current laboratory control limits, except as indicated below.

- Recoveries of the surrogate 4-Bromofluorobenzene (4-BFB) associated with the TPH-G analyses of several samples in data packages P5F0223, P5F0441, P5F0666, and P5F0668 exceeded laboratory control limits. The laboratory indicated that the surrogate recovery could not be accurately quantified due to the interference from coeluting compounds. No qualification of the data is necessary.

- Recoveries of the surrogate 4-Bromofluorobenzene (4-BFB) associated with the TPH-G analyses of three samples in data packages P5F0443 and P5F0444 exceeded laboratory control limits. The laboratory indicated that the surrogate recovery is outside control limits

BZTO104(e)021686

due to matrix interference. The gasoline results for these three project samples are qualified as estimates (J), as indicated in Table 1.

- Recovery of the surrogate 1-Chlorooctadecane (1-COD) associated with the TPH-Dx analyses of two samples in data package P5F0554 were below the laboratory control limits. The laboratory indicated that the surrogate recovery is outside the control limits due to matrix interference. The diesel and heavy oil results for these samples are qualified as estimates (UJ), as indicated in Table 1.

- Recovery of the surrogate 2,4,6-Tribromophenol (2,4,6-TBP) associated with the SVOC analysis of data package P5F0666 was slightly greater than the laboratory control limits for one sample. All associated compounds are nondetect for this sample. No qualifiers were assigned because, in accordance with the EPA guidelines (EPA 1994a), two or more surrogates of the same fraction must be outside the control limits to qualify SVOC results based on surrogate recoveries.

- Recovery of the surrogate Fluorene-d10 associated with the PAH analysis of one sample in data package P5F0668 was not within laboratory control limits. The laboratory indicated that the surrogate recovery could not be accurately quantified due to interference from of coeluting compounds or components. No qualification of the data is necessary.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) RESULTS

MS and/or MSD samples were performed for most analyses. Recoveries and RPDs for all project sample matrix spikes were within the project-specified control limits, except as indicated below:

- The MS and MSD recoveries for gasoline associated with the TPH-G analysis of data package P5F0441 were below laboratory control limits. Associated samples where gasoline was not detected are qualified as estimates (UJ), as indicated in Table 1.

- The MS recovery associated with the TPH-G analysis of data package P5F0668 was slightly above laboratory control limits. Because the MSD recovery was within control limits, and the RPD between the MS and MSD was acceptable, no qualification of the data is necessary.

- The MS and MSD recoveries for gasoline associated with the TPH-G analysis of data package P5F0666 were slightly below laboratory control limits. Because the recoveries were only slightly below control limits, and the RPD between the MS and MSD was acceptable, no qualification of the data is necessary.

- The RPD between the lab duplicate and source sample associated with the TPH-G analysis of gasoline in data packages P5F0441 is not applicable because the analyte concentration is less than five times the method reporting limit (MRL). No qualification of the data is necessary.

- The MS recovery associated with the PAH analysis of data package P5F0441 was below laboratory control limits. Because the MSD recovery was within control limits, and the RPD between the MS and MSD was acceptable, no qualification of the data is necessary.

BZTO104(e)021687

- The MSD recovery associated with the VOC analysis of data package P5F0554 was slightly below laboratory control limits. Because the MS recovery was within control limits, and the RPD between the MS and MSD was acceptable, no qualification of the data is necessary.

- The RPDs between the MS/MSD or lab duplicate and source sample associated with the PP metals analysis of lead, selenium, and/or thallium in data packages P5F0342 and P5F0343 are not applicable because the analyte concentrations are less than five times the method reporting limit (MRL). No qualification of the data is necessary.

- The MS/MSD recoveries and RPD associated with the PP metals analysis of antimony in data package P5F0441 are not applicable because of the high analyte concentration present in the source sample. No qualification of the data is necessary.

LABORATORY CONTROL SAMPLE (LCS) RESULTS

At least one LCS (or blank spike sample) and/or laboratory control sample duplicate (LCSD) was analyzed with each batch of samples for each analysis. Recoveries and RPDs for the laboratory control samples and associated duplicates were within laboratory-specified control limits for all project samples, except as discussed below:

- The RPDs between the LCS and LCSD for 4-Nitrophenol associated with the SVOC analyses of data packages P5F0554, P5F0666, and P5F0668 slightly exceeded the laboratory control limit. Because individual LCS and LCSD recoveries were each within control limits, all other RPDs associated with the SVOC analyses were within the control limits, and this compound was not detected in any associated project samples, no qualification of the data is necessary.

- The RPD between the LCS and LCSD for phenol associated with the SVOC analyses of data package P5F0666 exceeded the laboratory control limit. Phenol concentrations in three associated project samples have been qualified as estimates (J), as indicated in Table 1.

- The PAH analyses associated with data package P5F0666 included samples extracted on June 17, 2005, and June 20, 2005. No laboratory control sample(s) were included for analysis with the June 20th PAH extraction. The laboratory indicated that there was no available QC other than the blank because the liter sample was not received and they had to use the NWTPH-Dx extract for that sample. The LCS/LCSD recoveries and RPDs for the June 17th PAH extraction were all within laboratory control limits. No qualification of the data is necessary.

FIELD DUPLICATE RESULTS

Four pairs of blind field duplicate samples (RW1/W, LW024D/X, LW040D/Y, and LW042S/Z) were collected during this sampling event and submitted for analysis. A project-specified control limit of 20 percent was used to evaluate the RPDs between the duplicate sample results, except when the sample results were within five times the reporting limit. In these cases, a project-specified control limit

BZTO104(e)021688

of plus or minus the reporting limit was used. RPDs for all duplicate sample pairs submitted for analysis were within the control limits, except as indicated on Table 1 and discussed below:

- Field duplicate pair LW042S and Z was recorded on two separate COCs when submitted to the laboratory. Analytical results for sample LW042S are reported in data package P5F0441 and analytical results for sample Z are reported in data package P5F0443. Because the samples were collected and submitted to the laboratory on the same day and because field duplicates are used to assess precision in field sampling procedures, associated quality control measures are acceptable.

- The RPD between the gasoline results for the NWTPH-Gx analysis of field duplicate pair LW042S/Z in data package P5F0441/P5F0443 exceeded the project-specified control limit. Results for this compound for samples LW042S and Z are qualified as estimates (J), as indicated in Table 1.

- The RPD between the sec-butylbenzene results for the VOC analysis of field duplicate pair LW042S/Z in data packages P5F0441/P5F0443 exceeded the project-specified control limit. Results of for these compounds for samples LW042S and Z are qualified as estimates (J), as indicated in Table 1.

- The COC associated with field duplicate pair LW024D/X in data package P5F0554 was incomplete. Due to a sampling oversight, not all the compounds that were analyzed for duplicate sample X were analyzed for parent sample LW024D. Because holding times for several of the analyses had been exceeded, the missing analyses were not subsequently requested to be analyzed by the laboratory. RPDs between LW024D and X for the VOC and SVOC analyses are within the project-specified control limit. No qualification of the data is necessary.

- The RPD between the chromium, lead, and zinc results for the total PP metals analysis of field duplicate pair RW1/W in data package P5F0668 exceeded the project-specified control limit. Results for these compounds for samples RW1 and W are qualified as estimates (J), as indicated in Table 1.

REPORTING LIMITS

All project-specified reporting limits were met, except as indicated below:

- Reporting limits were raised for several analytes associated with the PAH analyses of data packages P5F0223, P5F0343, P5F0441, P5F0443, P5F0554, P5F0666, and P5F0668. The laboratory indicated that this was due to matrix interference. Project-specified reporting limits were exceeded for several samples from these packages. No qualification of the data is necessary.

- Reporting limits were raised for cadmium associated with the PP metals analysis of data package P5F0223. The laboratory indicated that this was due to matrix interference. No project-specified reporting limit is established for this analyte. No qualification of the data is necessary.

- Reporting limits were raised for two analytes associated with the SVOC analyses of data package P5F0668. The laboratory indicated that this was due to matrix interference. Project-

BZTO104(e)021689

specified reporting limits were exceeded for two samples from this package. No qualification of the data is necessary.

- The method reporting limit was raised for chromium associated with the dissolved PP metals analysis of data package P5F0441. The laboratory indicated that this was due to the instruments' internal standard. Project-specified reporting limits were still met for this analyte. No qualification of the data is necessary.

- Reporting limits were raised for several analytes associated with the SVOC analysis of data packages P5F0441 and P5F0666. The laboratory indicated that this was due to either the acidic nature of the extract or the dilution required by the extraction, or due to problems with the extraction procedure. Project-specified reporting limits were exceeded for these analytes for one sample in package P5F0441 and two samples in P5F0666. No qualification of the data is necessary.

- Reporting limits were raised for one sample associated with the NWTPH-Dx and SVOC analyses of data package P5F0223. The laboratory indicated that this was due to limited sample quantity available for the analysis. Project-specified reporting limits were met for diesel, but slightly exceeded for heavy oil. No qualification of the data is necessary.

OTHER

Other factors which required evaluation of the data include the following:

- Detected diesel-range organics for several samples associated with the NWTPH-Dx analyses of data packages P5F0223, P5F0343, P5F0441, P5F0443, P5F0444, P5F0553, P5F0554, and P5F0666 were identified by the laboratory as having weathered heavy gas/light diesel components. No qualification of the data is necessary.

- An amended data package P5F0223 was issued by the laboratory due to a reporting error in the original SVOC results for one sample. No qualification of the data is necessary.

- Dioxin/furan analyses were subcontracted to Pace. Analytical results from data packages 1014614 and 1015108 were acceptable without qualification.

OVERALL DATA QUALITY AND COMPLETENESS

Data precision was evaluated through laboratory duplicates, field duplicates, matrix spike duplicates, and laboratory control samples duplicates. Data accuracy was evaluated through surrogate spikes, matrix spikes, and laboratory control samples. Based on this data quality evaluation, all of the data were determined to be acceptable and no data were rejected.

Because a complete suite of analyses was not performed for both samples of field duplicate pair LW024D/X in data package P5F0554, as identified above, the completeness for this set of data is approximately 95 percent, which exceeds the project-specified goal of 90 percent.

BZTO104(e)021690

REFERENCES

EPA. 1994a. *Contract Laboratory Program National Functional Guidelines for Organic Data Review*. U.S. Environmental Protection Agency.

EPA. 1994b. *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*. U.S. Environmental Protection Agency.

Landau Associates. 2001. *Work Plan, Phase III Remedial Investigation, Time Oil Northwest Terminal, Portland, Oregon.* June 18.

ATTACHMENT

Table 1 Summary of Data Validation Qualifiers

BZTO104(e)021691

TABLE E-1
SUMMARY OF DATA VALIDATION QUALIFIERS
TIME OIL NORTHWEST TERMINAL
2ND QUARTER 2005 GROUNDWATER ANALYTICAL RESULTS

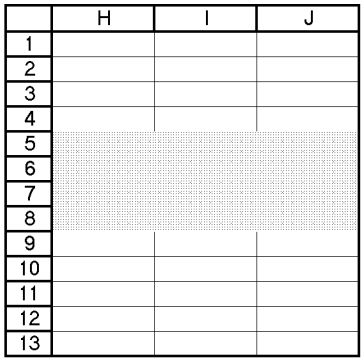
Package Number	Analysis	Analyte	Sample Number	Concentration	Qualifier	Reason
P5F0441	NWTPH-G	Gasoline	LW030D	80.0	UJ	Low MS/MSD Recoveries
P5F0441	NWTPH-G	Gasoline	LW042S	600	J	High RPD between field duplicate results
P5F0443	NWTPH-G	Gasoline	Z	882	J	High RPD between field duplicate results
P5F0441	NWTPH-G	sec-Butylbenzene	LW042S	5.01	J	High RPD between field duplicate results
P5F0443	NWTPH-G	sec-Butylbenzene	Z	6.26	J	High RPD between field duplicate results
P5F0443	NWTPH-G	Gasoline	Z	882	J	High surrogate recovery
P5F0444	NWTPH-G	Gasoline	LW018D	985	J	High surrogate recovery
P5F0444	NWTPH-G	Gasoline	LW017D	1830	J	High surrogate recovery
P5F0554	NWTPH-Dx	Diesel	LW040S	0.250	UJ	Low surrogate recovery
P5F0554	NWTPH-Dx	Diesel	LW040D	0.250	UJ	Low surrogate recovery
P5F0554	NWTPH-Dx	Heavy Oil	LW040S	0.500	UJ	Low surrogate recovery
P5F0554	NWTPH-Dx	Heavy Oil	LW040D	0.500	UJ	Low surrogate recovery
P5F0666	NWTPH-Dx	Diesel	LW020S	0.543	U	Method blank contamination
P5F0666	NWTPH-Dx	Diesel	LW027D	0.788	U	Method blank contamination
P5F0666	NWTPH-Dx	Diesel	N	1.27	U	Method blank contamination
P5F0666	SVOC	Phenol	N	14.7	J	High RPD beween LCS and LCSD results
P5F0666	SVOC	Phenol	P	135	J	High RPD beween LCS and LCSD results
P5F0666	SVOC	Phenol	Q	74.6	J	High RPD beween LCS and LCSD results
P5F0666	PP Metals	Chromium	RW1	0.00348	J	High RPD between field duplicate results
P5F0666	PP Metals	Chromium	W	0.00542	J	High RPD between field duplicate results
P5F0666	PP Metals	Lead	RW1	0.00218	J	High RPD between field duplicate results
P5F0666	PP Metals	Lead	W	0.00302	J	High RPD between field duplicate results
P5F0666	PP Metals	Zinc	RW1	0.0222	J	High RPD between field duplicate results
P5F0666	PP Metals	Zinc	W	0.0286	J	High RPD between field duplicate results

APPENDIX F

Laboratory Data

	A
1	BOLD DETECTS WHEN DATA IS STILL IN ROWS AS .CSV FILE
2	DATE FORMAT MM/DD/YY
3	REMOVE "00" FROM SITE NAMES BEFORE COPY
4	BEGINNING 2Q05, ALL WATER DATA IN DATABASE IS IN PPB.
5	
6	
7	
8	
9	MOVE PAHs TO BOTTOM BELOW D/F
10	FIELD PARAMETERS: pH, Temp, Cond, and DO only (delete redox, turbidity, ferrous iron)
11	USE LOOKUP TO DELETE UNNECESSARY COMPOUNDS; ADJUST ORDER OF COMPOUNDS EXISTING IN MULTIPLE METHODS (SEE LOOKUP TAB)
12	
13	

	B	C	D	E	F	G
1						
2						
3						
4						
5	CONVERT:	DIESEL, MOTOR OIL, AND GASOLINE FROM PPB TO PPM				
6		ALL METALS FROM PPB TO PPM				
7		TDS AND CHLORIDE SHOULD BE IN PPB				
8		LEAVE FIELD PARAMETER UNITS AS THEY ARE				
9						
10						
11						
12	TWO PAH COMPOUNDS NOT ANALYZED (2-Methlynaphthalene and Dibenzofuran) - ENTER NA FOR THESE					
13	Acenaphthylene and Anthracene - Only use PAH by 8270SIM, not 8270SVOC (delete these)					



	H	I	J
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

	A	B	C	D	E	F	G	H	I	J	K
1											
2											
3	**LOOKUP COMPOUNDS**										
4			Analytes by								
5			Mulitple methods								
6											
7											
8					Pentachlorophenol	3	SIM				
9	Pentachlorophenol	3	SIM		Pentachlorophenol	25	SVOC				
10		4			Naphthalene	18	SVOC				
11		5			Naphthalene	48	VOC				
12		6			Naphthalene	119	PAH				
13		7			2-Methylnaphthalene	19	SVOC				
14		8			2-Methylnaphthalene	120	PAH	(No Specialty PAH 2-Methylnaphthalene - NA)			
15		9			Acenaphthene	22	SVOC				
16		10			Acenaphthene	122	PAH				
17		11			Dibenzofuran	23	SVOC				
18		12			Dibenzofuran	125	PAH	(No Specialty PAH Dibenzofuran - NA)			
19	Phenol	13			Fluorene	24	SVOC				
20	3-,4-Methylphenol	14			Fluorene	123	PAH				
21	Isophorone	15									
22	2,4-Dimethylphenol	16			Use only PAH acenaphthylene - delete SVOC						
23	Benzoic Acid	17			Use only PAH anthracene - delete SVOC						
24	Naphthalene	18	SVOC								
25	2-Methylnaphthalene	19	SVOC								
26	2,4,6-Trichlorophenol	20									
27	2,4,5-Trichlorophenol	21									
28	Acenaphthene	22	SVOC								
29	Dibenzofuran	23	SVOC								
30	Fluorene	24	SVOC								
31	Pentachlorophenol	25	SVOC								
32	Bis(2-ethylhexyl)phthalate	26									
33		27									
34		28									
35		29									
36	Acetone	30									
37	Carbon disulfide	31									
38	2-Butanone	32									
39	Benzene	33									
40	Bromoform	34									
41	Toluene	35									
42	Ethylbenzene	36									
43	Styrene	37									
44	m,p-Xylene	38									
45	o-Xylene	39									
46	1,3,5-Trimethylbenzene	40									
47	1,2,4-Trimethylbenzene	41									
48	Isopropylbenzene	42									
49	n-Propylbenzene	43									
50	tert-Butylbenzene	44									
51	sec-Butylbenzene	45									
52	p-Isopropyltoluene	46									
53	n-Butylbenzene	47									
54	Naphthalene	48	VOC								
55	Methyl tert-butyl ether	49									
56		50									
57		51									
58		52									
59	Diesel Range Organics	53									
60	Heavy Oil Range Hydrocarbons	54									
61	Gasoline Range Hydrocarbons	55									
62		56									
63		57									
64		58									
65	Arsenic	59									
66	Chromium	60									
67	Copper	61									
68	Lead	62									

	A	B	C	D	E	F	G	H	I	J	K
69	Nickel	63									
70	Zinc	64									
71		65									
72		66									
73		67									
74		68									
75		69									
76		70									
77		71									
78		72									
79		73									
80	Total Dissolved Solids	74									
81	Chloride	75									
82		76									
83		77									
84		78									
85		79									
86		80									
87		81									
88	pH (avg)	82									
89	Temperature (° C) (avg)	83									
90	Conductivity (mS/cm) (avg)	84									
91	Dissolved oxygen (mg/L) (avg)	85									
92		86									
93	**DIOXINS AND FURANS (ng/L)**	87									
94	**Method 8290**	88									
95	2,3,7,8-TCDF	89									
96	Total TCDF	90									
97	2,3,7,8-TCDD	91									
98	Total TCDD	92									
99	1,2,3,7,8-PeCDF	93									
100	2,3,4,7,8-PeCDF	94									
101	Total PeCDF	95									
102	1,2,3,7,8-PeCDD	96									
103	Total PeCDD	97									
104	1,2,3,4,7,8-HxCDF	98									
105	1,2,3,6,7,8-HxCDF	99									
106	2,3,4,6,7,8-HxCDF	100									
107	1,2,3,7,8,9-HxCDF	101									
108	Total HxCDF	102									
109	1,2,3,4,7,8-HxCDD	103									
110	1,2,3,6,7,8-HxCDD	104									
111	1,2,3,7,8,9-HxCDD	105									
112	Total HxCDD	106									
113	1,2,3,4,6,7,8-HpCDF	107									
114	1,2,3,4,7,8,9-HpCDF	108									
115	Total HpCDF	109									
116	1,2,3,4,6,7,8-HpCDD	110									
117	Total HpCDD	111									
118	OCDF	112									
119	OCDD	113									
120		114									
121	**ETHANOL (mg/L)**	115									
122		116									
123	**PAHs (µg/L)**	117									
124	**EPA Method SW8270 SIM**	118									
125	Naphthalene	119	PAH								
126	2-Methylnaphthalene	120	PAH	(No Specialty 2-Methylnaphthalene - NA)							
127	Acenaphthylene	121	PAH	Use only this PAH acenaphthylene - delete SVOC							
128	Acenaphthene	122	PAH								
129	Fluorene	123	PAH								
130	Anthracene	124	PAH	Use only this PAH anthracene - delete SVOC							
131	Dibenzofuran	125	PAH	(No Specialty Dibenzofuran - NA)							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1	
4			S177D		T176N		U235H		V224R		W371K		Y336A		Z225M		Z960E		AH49B		AU36A		BC30D		9912050-01A		BH96T	
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/21/99		12/8/99		12/8/1999 (d)		2/16/00	
6																												
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		**0.14**	J1
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	**3.1**	M	2.0	U	2.0	U	NA		**4.6**	
20	14	4-Methylphenol	**43**		1.0	U	1.0	U	**24**		**39**		**28**		**31**		**35**		**7.1**		1.0	U	**7.0**		NA		**57**	
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	NA		**7.7**	
23	17	Benzoic Acid	10	U	10	U	10	U	**10**		10	U	10	U	10	U	10	U	**27**		10	U	10	U	NA		10	U
24	18	Naphthalene	**16**		**12**		**18**		**16**		**20**	J2	**6.8**		**4.4**		**35**		**26**		1.0	U	**12**		NA		**51**	
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	**1.5**	J2	**1.1**		1.0	U	**6.4**		**3.8**		1.0	U	**2.1**		NA		**19**	
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U
32	26	bis(2-Ethylhexyl)phthalate	2.9	U	**2.8**	J2	1.0	U	1.0	U	1.0	U	**2.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	**24**		5.0	U	**6.5**		5.0	U	**75**		5.0	U	5.0	U	36	U	230	U	25	U	25	U	NA		5.0	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	45	U	5.0	U	5.0	U	NA		1.0	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	**11**		**20**		5.0	U	**51**		**11**		230	U	25	U	25	U	NA		55	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	**250**		**440**		**190**		**160**		**2400**		**210**		**66**		**190**		NA		**4700**	
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	45	U	5.0	U	5.0	U	NA		1.0	U
41	35	Toluene	**6.4**		1.0	U	1.0	U	**4.4**		**1400**		**450**		**190**		**4000**		**3700**		**920**		**290**		NA		**4700**	
42	36	Ethylbenzene	**5.4**		**5.5**		**1.1**		**1.2**		**11**		**19**		**11**		**140**		**220**		**160**		**32**		NA		**160**	
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	**4.2**		**7.0**		**3.8**		**93**		**130**		5.0	U	**5.0**	U	NA		**29**	
44	38	m,p-Xylene	**1.2**		**2.5**		**1.1**		**1.7**		**22**		**50**		**33**		**450**		**730**		**390**		**100**		NA		**1000**	
45	39	o-Xylene	**1.1**		**1.2**		1.0	U	1.0	U	**7.4**		**22**		**14**		**210**		**360**		**200**		**44**		NA		**490**	
46	40	1,3,5-Trimethylbenzene	**2.5**		**3.6**		**12**		**6.4**		**13**		**4.8**		**3.8**		**25**		45	U	**8.8**		**5.2**		NA		**46**	
47	41	1,2,4-Trimethylbenzene	**4.6**		**8.8**		**47**	J2	**36**		**110**		**30**		**19**		**140**		**88**		**44**		**24**		NA		**150**	
48	42	Isopropylbenzene	**7.7**		**9.5**		**34**	J2	**23**		**34**		**11**		**7.4**		**28**		45	U	**9.1**		**6.2**		NA		**28**	
49	43	n-Propylbenzene	**3.1**		**4.9**		**21**		**17**		**29**		**13**		**8.8**		**36**		45	U	**9.7**		**8.2**		NA		**40**	
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	45	U	5.0	U	5.0	U	NA		1.0	U
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	45	U	5.0	U	5.0	U	NA		**2.8**	
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	45	U	5.0	U	5.0	U	NA		**2.7**	
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.2**		1.0	U	**1.0**		45	U	5.0	U	5.0	U	NA		**4.5**	
54	48	Naphthalene	**25**		**20**	J2	**52**	J2	**23**		**31**		**12**		**11**		**56**		230	U	25	U	25	U	NA		**82**	
55	49	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	50																											
57	51	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	52	**Method OR-DEQ**																										
59	53	**TPH-Diesel**	**0.68**		**0.75**		**1.1**		**1.2**		**1.2**		**0.51**		**1.0**		**9.5**		**2.0**		**0.37**		**0.46**		NA		**4.8**	
60	54	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	55	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	56																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
2														Dup of B1										Dup of B1					
3		B1		B1		B1		B1		B1		B1		X		B1		B1		B1		B1		X		B1		B1	
4		BR55M		CB68E		CL03B		CT67H		DE68L		DM30L		DM30K		DW37B		ED23A		EM75J		ES04G		ES04A		EY88C		FF88O	
5		5/23/00		8/29/00		11/10/00		2/15/01		6/5/01		8/14/01		8/14/01		11/28/01		2/26/02		6/25/02		08/28/02		08/28/02		11/11/02		2/13/03	
7	**CHLORINATED PHENOLS (µg/L)**																												
8	**EPA Method SW8040**																												
9	Pentachlorophenol	**0.27**	J2	**0.43**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.65**		**1.0**		0.25	U	0.29	U	0.29	U	0.25	U	0.25	U
10	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																													
17	**SEMIVOLATILES (µg/L)**																												
18	**EPA Method SW8270**																												
19	Phenol	2.0	U	3.0	U	2.0	U	**2.6**		100	UJ	2.0	U	2.0	U	**6.2**		**15**		2.0	U	2.3	U	2.3	U	2.2	U	2	U
20	4-Methylphenol	**20**		**47**		**5.6**		**8.4**		**130**	J	**50**		**54**		**44**		**170**		**46**		1.2	U	**1.3**		1.1	U	**36**	
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	50	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.2	U	1.1	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	150	UJ	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	**4.1**		**4.5**		3.3	U	6.7	U
23	Benzoic Acid	**160**		**73**		10	U	10	U	500	UJ	10	U	10	U	50	U	50	U	50	U	58	U	58	U	54	U	51	U
24	Naphthalene	**34**		**27**		**2.0**		**5.1**		50	UJ	**13**		**14**		1.0	U	**17**		**15**		**2.8**		**3.3**		1.1	U	1	U
25	2-Methylnaphthalene	**12**		**9.6**		1.0	U	1.0	U	50	UJ	**6.8**		**7.4**		1.0	U	**10**		**5.9**		1.2	U	**1.8**		1.1	U	1	U
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	250	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.8	U	5.8	U	5.4	U	5.1	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	250	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.8	U	5.8	U	5.4	U	5.1	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	50	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.2	U	1.1	U	1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	50	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.2	U	1.1	U	1	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	50	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.2	U	1.1	U	1	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	250	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.8	U	5.8	U	5.4	U	5.1	U
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	50	UJ	1.0	U	1.0	U	1.0	U	4.0	U	4.0	U	4.7	U	4.7	U	4.3	U	1	U
33																													
34	**VOLATILES (µg/L)**																												
35	**EPA Method SW8260**																												
36	Acetone	5.0	U	**410**		5.0	U	**1200**		**1100**		**230**		**280**		37	U	**250**		**18**		25	U	25	U	5	U	**78**	
37	Carbon Disulfide	1.0	U	25	U	1.0	U	30	U	20	U	20	U	20	U	1.0	U	1.0	U	3.0	U	5	U	5	U	1	U	1	U
38	2-Butanone	**6.1**		120	U	**28**		**260**		100	U	100	U	**160**		**13**		**54**		15	U	25	U	25	U	5	U	**8.2**	M
39	Benzene	**990**		**1100**		**160**		**610**		**560**		**180**	J	**230**	J	**120**		**1000**		**240**		**160**		**130**		**19**		**65**	
40	Bromoform	1.0	U	25	U	1.0	U	30	U	20	U	20	U	20	U	1.0	U	1.0	U	3.0	U	5	U	5	U	1	U	1	U
41	Toluene	**1800**		**3600**		**1200**		**2000**		**3400**		**1400**	J	**1900**	J	**800**		**2800**		**520**		**210**		**210**		**61**		**100**	
42	Ethylbenzene	**110**		**300**		**100**		**160**		**220**		**130**		**150**		**86**		**170**		**97**		**88**		**74**		**22**		**51**	
43	Styrene	**8.3**	M	25	U	1.0	U	30	U	20	U	20	U	20	U	1.0	U	**4.3**		3.0	U	5	U	5	U	1	U	1	U
44	m,p-Xylene	**340**		**990**		**320**		**590**		**830**		**450**		**530**		**350**		**290**		**270**		**230**		**210**		**71**		**130**	
45	o-Xylene	**180**		**420**		**160**		**240**		**370**		**210**		**250**		**180**		**210**		**150**		**120**		**100**		**26**		**75**	
46	1,3,5-Trimethylbenzene	**18**		**37**		**15**		**31**		**37**		**33**		**37**		**29**		**37**		**22**		**18**		**19**		**9.3**		**18**	
47	1,2,4-Trimethylbenzene	**72**		**160**		**61**		**100**		**160**		**110**		**130**		**100**		**94**		**73**		**54**		**56**		**30**		**57**	
48	Isopropylbenzene	**10**		25	U	**9.0**		30	U	20	U	20	U	20	U	**11**		**12**		**11**		**7**		**8.5**		**21**		**9.7**	
49	n-Propylbenzene	**17**		**31**		**15**		30	U	**33**		**22**		**24**		**19**		**15**		**16**		**12**		**13**		**26**		**15**	
50	tert-Butylbenzene	1.0	U	25	U	1.0	U	30	U	20	U	20	U	20	U	1.0	U	1.0	U	3.0	U	5	U	5	U	1	U	1	U
51	sec-Butylbenzene	**1.4**		25	U	1.0	U	30	U	20	U	20	U	20	U	1.0	U	1.0	U	3.0	U	5	U	5	U	**2.2**		1	U
52	4-Isopropyltoluene	**1.1**		25	U	1.0	U	30	U	20	U	20	U	20	U	1.0	U	**1.0**		3.0	U	5	U	5	U	1	U	**1.1**	
53	n-Butylbenzene	2.0	U	25	U	1.8	U	30	U	20	U	20	U	20	U	3.2	U	**4.0**	M	3.0	U	5	U	5	U	**2.2**		2.8	U
54	Naphthalene	**36**		120	U	**25**		150	U	100	U	100	U	100	U	**39**		**37**		**24**		25	U	25	U	**9.1**		**13**	
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																													
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
58	**Method OR-DEQ**																												
59	**TPH-Diesel**	**0.44**		**1.4**		**0.37**		**2.1**		**47**		**8.7**	J	**6.9**	J	**0.94**		**12**		**1.3**		**0.64**		**0.9**		**0.84**		**6.8**	
60	**TPH-D Motor Oil**	0.50	U	0.50	U	0.50	U	0.50	U	5.0	U	5.0	U	5.0	U	0.5	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U	0.5	U
61	**TPH-Gasoline**	**17**		**36**		**8.8**		**15**		**25**		**19**		**19**		**6.8**		**16**		**7.6**		**4.8**	J	**3.4**	J	**2.4**		**4.6**	
62																													

BZTO104(e)021700

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP
3		B1		B1		B1		B1		B1		B1	
4		FL41H		FU50E		FY64D		0402099-01		0408019-02		0502102-04	
5		5/7/03		8/29/03		10/20/03		2/19/04		8/03/04		2/23/05	
7	**CHLORINATED PHENOLS (µg/L)**												
8	**EPA Method SW8040**												
9	Pentachlorophenol	0.25	U	0.5	U	0.52	U	**2.46**	J	0.5	U	0.483	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA	
16													
17	**SEMIVOLATILES (µg/L)**												
18	**EPA Method SW8270**												
19	Phenol	**3.1**	M	2	U	2.1	U	1.91	U	1.96	U	2	U
20	4-Methylphenol	**28**		1	U	1	U	**12**		9.8	U	10	U
21	Isophorone	1	U	1	U	1	U	0.956	U	0.98	U	1	U
22	2,4-Dimethylphenol	3	U	3	U	**4.4**		2.87	U	2.94	U	3.01	U
23	Benzoic Acid	50	U	50	U	10	U	19.1	U	19.6	U	20	U
24	Naphthalene	**1.8**		**2.7**		**3.5**		**1.23**		0.98	U	1	U
25	2-Methylnaphthalene	1	U	**1.4**		**3**		0.956	U	0.98	U	1	U
26	2,4,6-Trichlorophenol	5	U	5	U	5.2	U	4.78	U	4.9	U	5.01	U
27	2,4,5-Trichlorophenol	5	U	5	U	5.2	U	4.78	U	4.9	U	5.01	U
28	Acenaphthene	1	U	1	U	1	U	0.956	U	0.98	U	1	U
29	Dibenzofuran	1	U	1	U	1	U	0.956	U	0.98	U	1	U
30	Fluorene	1	U	1	U	1	U	0.956	U	0.98	U	1	U
31	Pentachlorophenol	5	U	5	U	5.2	U	4.78	U	4.9	U	5.01	U
32	bis(2-Ethylhexyl)phthalate	1	U	1	U	**6.3**		0.956	U	0.98	U	1	U
33													
34	**VOLATILES (µg/L)**												
35	**EPA Method SW8260**												
36	Acetone	**61**	M	**28**		5	U	50	U	50	U	50	U
37	Carbon Disulfide	1	U	1	U	1	U	2	U	2	U	2	U
38	2-Butanone	**8.1**	M	5	U	5	U	10	U	10	U	10	U
39	Benzene	**82**		**20**		**5.6**		**36.9**		**1.71**	J	0.3	U
40	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	**100**		**22**		**2.1**		**9.07**		1	U	1	U
42	Ethylbenzene	**130**	J	**80**		**31**		**55.2**		**27.5**	J	**3.59**	
43	Styrene	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	**110**	J	**99**		**40**		**25.2**		**20.8**	J	2	U
45	o-Xylene	**86**	J	**35**		**9.2**		**15.2**		**2.6**	J	1	U
46	1,3,5-Trimethylbenzene	**11**	J	**9.3**		**3.6**		**9.64**		**1.15**	J	1	U
47	1,2,4-Trimethylbenzene	**30**	J	**28**		**12**		**26.6**		**3.13**	J	**2.58**	
48	Isopropylbenzene	**6.3**	J	**5.2**		**3.3**		**5.53**		**1.95**	J	**2.36**	
49	n-Propylbenzene	**7.6**	J	**7.3**		**4.5**		**8.05**		**2.57**	J	**4.97**	
50	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	**1**	J	**1**		1	U	1	U	1	U	1	U
52	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	**1.8**	J	**1.6**	M	1	U	1	U	1	U	1	U
54	Naphthalene	**5.8**		**7.3**		5	U	**5.47**		**1.03**	J	**2.62**	
55	Methyl tert-butyl ether	NA		NA		NA		1	U	1	U	1	U
56													
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**												
58	**Method OR-DEQ**												
59	**TPH-Diesel**	**2.4**		**1.6**		**2.7**		**2.26**		**0.978**		**9.29**	
60	**TPH-D Motor Oil**	0.5	U	0.5	U	0.5	U	0.477	U	0.503	U	1.09	U
61	**TPH-Gasoline**	**4.8**		**3.0**		**1.2**		**2.6**		**0.652**		NA	
62													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1	
4			S177D		T176N		U235H		V224R		W371K		Y336A		Z225M		Z960E		AH49B		AU36A		BC30D		9912050-01A		BH96T	
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/21/99		12/8/99		12/8/1999 (d)		2/16/00	
63	57	**PRIORITY POLLUTANT**																										
64	58	**METALS (mg/L)**																										
65	59	Arsenic (7060)	**0.006**		**0.008**		0.05	U	0.05	U	**0.010**		**0.008**		**0.008**		**0.004**		**0.006**		**0.008**		**0.006**		NA		**0.006**	
66	60	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	NA		0.005	U
67	61	Copper (6010)	**0.009**		**0.009**		**0.004**		**0.006**		**0.002**		0.002	U	0.002	U	**0.078**		**0.043**		**0.008**		0.002	U	NA		**0.004**	
68	62	Lead (7421)	0.001	U	**0.001**		0.02	U	0.02	U	**0.003**		0.001	U	0.001	U	**0.002**		**0.002**		0.001	U	0.001	U	NA		0.001	U
69	63	Nickel (6010)	**0.02**		**0.01**		0.01	U	**0.02**		**0.02**		**0.02**		0.01	U	**0.04**		**0.03**		**0.03**		**0.01**		NA		**0.06**	
70	64	Zinc (6010)	0.004	U	**0.009**		**0.027**		**0.004**		**0.006**	J2	**0.011**		**0.005**		**0.017**	J	**0.006**		**0.009**		0.006	U	NA		**0.020**	
71	65																											
72	66	**MAJOR IONS AND CONVENTIONALS**																										
73	67	Calcium (mg/L) (6010)	**42.2**		**25.7**		**16.3**		**26.7**		NA		NA		NA		**16.5**		NA		NA		NA		NA		NA	
74	68	Magnesium (mg/L) (6010)	**16.3**		**9.41**		**6.93**		**9.05**		NA		NA		NA		**3.94**		NA		NA		NA		NA		NA	
75	69	Potassium (mg/L) (6010)	**4.2**		**3.3**		**3.2**		**3.4**		NA		NA		NA		**2.7**		NA		NA		NA		NA		NA	
76	70	Sodium (mg/L) (6010)	**8.65**		**7.49**		**7.88**		**7.63**		NA		NA		NA		**6.29**		NA		NA		NA		NA		NA	
77	71	Alkalinity (mg/L CaCO3) (SM 2320)	**190**		**140**	J2	**130**		**170**		NA		NA		NA		**43**		NA		NA		NA		NA		NA	
78	72	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA		NA	
79	73	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**190**		**140**	J2	**130**		**170**		NA		NA		NA		**43**		NA		NA		NA		NA		NA	
80	74	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**200**	J2	**190**		**290**		**360**		**430**		**260**		**170**		**210**		**160**		**150**		NA		**250**	
81	75	Chloride (mg/L) (EPA 325.2)	**5.1**		**5.9**		**5.6**		**4.3**		**3.5**		**3.4**		**2.4**		**2.0**		**7.9**		**3.8**		**6.6**		NA		**3.8**	
82	76	N-Nitrate (mg-N/L) (Calculated)	**0.014**		0.010	U	**0.023**		**0.036**	J2	NA		NA		NA		0.010	U	NA		NA		NA		NA		NA	
83	77	N-Nitrite (mg-N/L) (EPA 354.1)	0.017	J	**0.053**	J2	**0.033**		0.010	UJ	NA		NA		NA		**0.015**		NA		NA		NA		NA		NA	
84	78	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	0.031		**0.032**	J2	**0.056**		**0.036**	J2	NA		NA		NA		**0.013**		NA		NA		NA		NA		NA	
85	79	Sulfate (mg/L) (EPA 375.2)	2.5	U	2.5	U	**5.3**		2.5	U	NA		NA		NA		**2.8**		NA		NA		NA		NA		NA	
86	80																											

BZTO104(e)021702

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2														Dup of B1										Dup of B1					
3		B1		B1		B1		B1		B1		B1		X		B1		B1		B1		B1		X		B1		B1	
4		BR55M		CB68E		CL03B		CT67H		DE68L		DM30L		DM30K		DW37B		ED23A		EM75J		ES04G		ES04A		EY88C		FF88O	
5		5/23/00		8/29/00		11/10/00		2/15/01		6/5/01		8/14/01		8/14/01		11/28/01		2/26/02		6/25/02		08/28/02		08/28/02		11/11/02		2/13/03	
63	**PRIORITY POLLUTANT**																												
64	**METALS (mg/L)**																												
65	Arsenic (7060)	**0.004**		**0.007**		**0.007**		**0.007**		**0.010**		**0.009**		**0.009**		**0.007**		**0.006**		**0.006**		**0.004**	J	**0.006**	J	0.05	U	**0.012**	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.03**		**0.017**	
67	Copper (6010)	**0.004**		0.002	U	**0.081**		0.002	U	0.002	U	0.002	U	0.002	U	**0.016**	J	**0.062**		**0.016**		**0.004**		0.002	U	**0.073**		**0.107**	
68	Lead (7421)	0.001	U	0.001	U	0.001	U	0.001	U	**0.002**		0.001	U	0.001	U	**0.008**		**0.004**		**0.003**		0.001	U	0.001	U	**0.03**		**0.028**	
69	Nickel (6010)	**0.03**		**0.01**		0.01	U	0.01	U	**0.12**		0.01	U	0.01	U	0.01	U	**0.08**		**0.07**		0.01	U	0.01	U	**0.05**		**0.04**	
70	Zinc (6010)	0.006	U	0.006	U	0.006	U	**0.006**		**0.054**		0.006	U	0.006	U	**0.015**	J	**0.033**		**0.016**		**0.007**		0.006	U	**0.119**		**0.085**	
71																													
72	**MAJOR IONS AND CONVENTIONALS**																												
73	Calcium (mg/L) (6010)	NA		NA		NA		**23.9**		**88.1**		**15.2**		**16.4**		**19.2**	J	**35.7**		NA		NA		NA		NA		**17.3**	
74	Magnesium (mg/L) (6010)	NA		NA		NA		**9.46**		**40.8**		**6.11**		**6.64**		**7.26**	J	**15.7**		NA		NA		NA		NA		**8.66**	
75	Potassium (mg/L) (6010)	NA		NA		NA		**2.6**		**5.1**		**2.1**		**2.5**		**2.4**		**4.6**		NA		NA		NA		NA		**3.6**	
76	Sodium (mg/L) (6010)	NA		NA		NA		**8.18**		**13.3**		**6.43**		**6.89**		**7.22**		**12.3**		NA		NA		NA		NA		**7.8**	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		**160**		NA		NA		NA		NA		**140**		NA		NA		NA		NA		**70**	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		1.0	U	NA		NA		NA		NA		1.0	U	NA		NA		NA		NA		1	U
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		**160**		NA		NA		NA		NA		**140**		NA		NA		NA		NA		**70**	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**220**		**170**		**140**		**250**		**1400**		**140**		**130**		**150**		**430**		**330**		**140**		**140**		**150**		**170**	
81	Chloride (mg/L) (EPA 325.2)	**7.2**		**1.7**		**2.5**		**3.4**	J	**2.8**		**8.0**	J	**6.0**	J	**2.2**		**3.2**		**6.2**		**5.1**		**4**		**3**		**6.4**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		0.010	U	NA		NA		NA		NA		0.010	U	NA		NA		NA		NA		**0.029**	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		**0.012**	J	NA		NA		NA		NA		**0.021**		NA		NA		NA		NA		**0.03**	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		**0.015**		NA		NA		NA		NA		**0.020**	J	NA		NA		NA		NA		**0.059**	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		**2.8**		NA		NA		NA		NA		2.5	U	NA		NA		NA		NA		**5.7**	
86																													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP
1													
2													
3		B1		B1		B1		B1		B1		B1	
4		FL41H		FU50E		FY64D		0402099-01		0408019-02		0502102-04	
5		5/7/03		8/29/03		10/20/03		2/19/04		8/03/04		2/23/05	
63	**PRIORITY POLLUTANT**												
64	**METALS (mg/L)**												
65	Arsenic (7060)	**0.007**		**0.007**		**0.007**		**0.003**		**0.00636**		**0.00444**	
66	Chromium (6010)	**0.008**		0.005	U	**0.006**		0.005	U	0.005	U	**0.0088**	
67	Copper (6010)	**0.041**		**0.004**		**0.015**		**0.0117**		0.01	U	0.01	U
68	Lead (7421)	**0.009**		0.001	U	**0.005**		**0.0007**		0.0001	U	**0.00117**	
69	Nickel (6010)	**0.03**		0.01	U	**0.01**		**0.0075**		0.005	U	0.005	U
70	Zinc (6010)	**0.037**	J	**0.007**		**0.018**		0.01	U	**0.0166**		0.01	U
71													
72	**MAJOR IONS AND CONVENTIONALS**												
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**140**		**210**		**210**		**116**		**215**		**170**	
81	Chloride (mg/L) (EPA 325.2)	**2.9**		**2.4**		**3**		**3.31**		**3.63**		**4**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA	
86													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1	
4			S177D		T176N		U235H		V224R		W371K		Y336A		Z225M		Z960E		AH49B		AU36A		BC30D		9912050-01A		BH96T	
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/21/99		12/8/99		12/8/1999 (d)		2/16/00	
87	81	**FIELD PARAMETERS**																										
88	82	pH (avg)	6.59		6.61		6.64		6.41		5.64		5.28		5.37		5.11		5.36		6.18		5.93		NM		4.81	
89	83	Temperature (° C) (avg)	13.5		15.3		15.7		14.5		12.6		15.5		14.2		12.8		13.4		15.4		13.0		NM		12.3	
90	84	Conductivity (um/hos)	466		359		286		457		392		605		379		363		254		263		306		NM		335	
91	85	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		1.29		1.83		1.75		2.18		2.20		2.61		1.81		NM		2.15	
92	86																											
93	87	**DIOXINS AND FURANS (ng/L)**																										
94	88	**Method 8290**																										
95	89	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	90	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	91	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	92	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	93	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	94	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	95	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	96	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	97	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	98	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	99	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	100	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	101	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	102	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	103	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	104	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	105	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	106	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	107	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	108	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	109	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	110	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	111	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	112	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	113	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120	114																											
121	115	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**4200**	J2	**6300**	J2	**5100**	
122	116																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2														Dup of B1										Dup of B1					
3		B1		B1		B1		B1		B1		B1		X		B1		B1		B1		B1		X		B1		B1	
4		BR55M		CB68E		CL03B		CT67H		DE68L		DM30L		DM30K		DW37B		ED23A		EM75J		ES04G		ES04A		EY88C		FF88O	
5		5/23/00		8/29/00		11/10/00		2/15/01		6/5/01		8/14/01		8/14/01		11/28/01		2/26/02		6/25/02		08/28/02		08/28/02		11/11/02		2/13/03	
87	**FIELD PARAMETERS**																												
88	pH (avg)	6.02		6.13		4.89		5.53		4.70		6.43		6.49		6.14		4.97		6.50		6.50		6.50		6.8		6.34	
89	Temperature (° C) (avg)	14.9		17.7		13.4		13.1		14.0		15.1		15.2		13.0		13.1		16.4		16.7		16.8		15.8		14.2	
90	Conductivity (um/hos)	297		243		222		297		1883		259		248		270		501		718		432		413		268		274	
91	Dissolved oxygen (mg/L) (avg)	1.55		1.51		0.84		1.08		1.42		1.59		1.61		3.58		5.92		4.21		0.79		0.60		1.64		0	
92																													
93	**DIOXINS AND FURANS (ng/L)**																												
94	**Method 8290**																												
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																													
121	**ETHANOL (mg/L)**	**16**		5.0	U	5.0	U	**5.0**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																													

BZTO104(e)021706

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP
1													
2													
3		B1		B1		B1		B1		B1		B1	
4		FL41H		FU50E		FY64D		0402099-01		0408019-02		0502102-04	
5		5/7/03		8/29/03		10/20/03		2/19/04		8/03/04		2/23/05	
87	**FIELD PARAMETERS**												
88	pH (avg)	6.23		6.52		6.51		4.99		7.5		6.7	
89	Temperature (° C) (avg)	14.4		16		15.9		14		15.8		15.2	
90	Conductivity (um/hos)	170		285		285		97		361		195	
91	Dissolved oxygen (mg/L) (avg)	2.54		1.73		1.48		1.77		NM		0.38	
92													
93	**DIOXINS AND FURANS (ng/L)**												
94	**Method 8290**												
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA	
120													
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA	
122													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1	
4			S177D		T176N		U235H		V224R		W371K		Y336A		Z225M		Z960E		AH49B		AU36A		BC30D		9912050-01A		BH96T	
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/21/99		12/8/99		12/8/1999 (d)		2/16/00	
123	117	**PAHs (µg/L)**																										
124	118	**EPA Method SW8270 SIM**																										
125	119	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	120	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	121	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	122	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	123	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	124	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	125	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2														Dup of B1										Dup of B1					
3		B1		B1		B1		B1		B1		B1		X		B1		B1		B1		B1		X		B1		B1	
4		BR55M		CB68E		CL03B		CT67H		DE68L		DM30L		DM30K		DW37B		ED23A		EM75J		ES04G		ES04A		EY88C		FF88O	
5		5/23/00		8/29/00		11/10/00		2/15/01		6/5/01		8/14/01		8/14/01		11/28/01		2/26/02		6/25/02		08/28/02		08/28/02		11/11/02		2/13/03	
123	**PAHs (µg/L)**																												
124	**EPA Method SW8270 SIM**																												
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP
1													
2													
3		B1		B1		B1		B1		B1		B1	
4		FL41H		FU50E		FY64D		0402099-01		0408019-02		0502102-04	
5		5/7/03		8/29/03		10/20/03		2/19/04		8/03/04		2/23/05	
123	**PAHs (µg/L)**												
124	**EPA Method SW8270 SIM**												
125	Naphthalene	NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		0.98	U	NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		0.98	U	NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			D		D		D		D		D		D		D		D		D		D		D		D		D	
4			S177L		T176B		U235F		V208H		W391B		Y336D		Z225I		Z960I		AH76J		AU22D		BC27N		9912050-02A		BH96B	
5			4/2/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/18/99		5/19/99		9/20/99		12/8/99		12/8/1999 (d)		2/17/00	
6																												
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	0.25	U	0.25	U	**0.25**		0.25	U	**0.45**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	UJ	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	NA		2.0	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
21	15	Isophorone	**3.4**		**5.5**		**5.2**			R	1.0	U	1.0	U	1.0	U	**2.4**		1.0	U	1.0	U	1.0	U	NA		1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	UJ	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	NA		3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U	10	U	10	U	NA		10	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U		R	1.0	U	1.0	U	1.0	U	**3.1**		1.0	U	1.0	U	**3.2**		NA		1.0	U
25	19	2-Methylnaphthalene	1.2		1.0	U	1.0	U		R	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U		R	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U		R	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**2.4**		1.0	U	NA		1.0	U
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**3.7**		NA		1.0	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.9**		NA		1.0	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**2.6**		NA		1.0	U
47	41	1,2,4-Trimethylbenzene	**2.2**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.2**		1.0	U	1.0	U	**15**		NA		**1.0**	
48	42	Isopropylbenzene	**1.6**		**2.7**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.7**		1.0	U	1.0	U	**11**		NA		**2.5**	
49	43	n-Propylbenzene	**1.7**		**2.5**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**5.6**		NA		**1.1**	
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
51	45	sec-Butylbenzene	**1.6**		**2.1**		1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.5	U	NA		**2.0**	
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
53	47	n-Butylbenzene	1.0	U	**1.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	51	**Method OR-DEQ**																										
59	52	**TPH-Diesel**	**0.82**		**0.82**		**0.55**		0.25	U	**0.34**		**0.35**		0.25	U	**0.52**		0.25	U	0.25	U	**0.56**		NA		**0.40**	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																											

BZTO104(e)021711

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
3		D		D		D		D		D		D		D		D		D		D		D		D		D		D	
4		BR55E		CB49D		CK77F		CT37F		DE68G		DM30M		DW37E		ED34G		EM85B		ER93P		EZ03C		FF76G		FL58K		FU45C	
5		5/22/00		8/28/00		11/7/00		2/12/01		6/4/01		8/14/01		11/28/01		2/28/02		6/26/02		08/27/02		11/12/02		2/12/03		5/8/03		8/28/03	
7	**CHLORINATED PHENOLS (µg/L)**																												
8	**EPA Method SW8040**																												
9	Pentachlorophenol	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.55**		**0.32**		**0.38**		0.33	U	0.25	U	0.26	U	0.25	U	**0.86**	J
10	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																													
17	**SEMIVOLATILES (µg/L)**																												
18	**EPA Method SW8270**																												
19	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.6	U	2.2	U	2.1	U	2	U	2	U
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.3	U	1.1	U	1	U	1	U	1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.3	U	1.1	U	1	U	1	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.9	U	3.3	U	3.1	U	3	U	3	U
23	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	50	U	50	U	50	U	66	U	54	U	52	U	50	U	50	U
24	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**3**		1.0	U	1.3	U	1.1	U	1	U	1	U	1	U
25	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.3	U	1.1	U	1	U	1	U	1	U
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	6.6	U	5.4	U	5.2	U	5	U	5	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	6.6	U	5.4	U	5.2	U	5	U	5	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.3	U	1.1	U	1	U	1	U	1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.3	U	1.1	U	1	U	1	U	1	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.3	U	1.1	U	1	U	1	U	1	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	6.6	U	5.4	U	5.2	U	5	U	5	U
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**12**		4.0	U	4.0	U	5.3	U	4.3	U	1	U	**150**		1	U
33																													
34	**VOLATILES (µg/L)**																												
35	**EPA Method SW8260**																												
36	Acetone	5.0	U	5.0	U	5.0	U	7.1	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
38	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U
39	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.6**		**1.7**		1.0	U	1	U	1	U	1	U	1	U	1	U
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.6**		1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
45	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**2.0**		**1.9**		1.0	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**23**		**38**		**1.2**		1	U	1	U	1	U	1	U	1	U
48	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**6.0**		**7.7**		1.0	U	**3**		1	U	1	U	1	U	**3.4**	
49	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**2.7**		**7.7**		1.0	U	**3.6**		1	U	1	U	1	U	**2.6**	
50	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**5.3**		1.0	U	**2.1**		1	U	1	U	1	U	**1.2**	
52	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.8**		1.0	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.5**		1.0	U	1	U	1	U	1	U	1	U	1	U
54	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	7.5	U	5.0	U	**8.2**		5.0	U	5	U	5	U	5	U	5	U	5	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																													
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
58	**Method OR-DEQ**																												
59	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	**0.26**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL
1									
2									
3		D		D		D		D	
4		FY82H		0402105-03		0408036-01		0502102-05	
5		10/23/03		2/20/04		8/05/04		2/23/05	
6									
7	**CHLORINATED PHENOLS (µg/L)**								
8	**EPA Method SW8040**								
9	Pentachlorophenol	**0.61**		0.498	U	0.5	U	0.481	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA	
16									
17	**SEMIVOLATILES (µg/L)**								
18	**EPA Method SW8270**								
19	Phenol	2	U	1.98	U	2	U	2.02	U
20	4-Methylphenol	1	U	9.91	U	10	U	10.1	U
21	Isophorone	1	U	0.991	U	1	U	1.01	U
22	2,4-Dimethylphenol	3	U	2.97	U	3	U	3.03	U
23	Benzoic Acid	10	U	19.8	U	20	U	20.2	U
24	Naphthalene	1	U	0.991	U	1	U	1.01	U
25	2-Methylnaphthalene	1	U	0.991	U	1	U	1.01	U
26	2,4,6-Trichlorophenol	5.1	U	4.96	U	5	U	5.05	U
27	2,4,5-Trichlorophenol	5.1	U	4.96	U	5	U	5.05	U
28	Acenaphthene	1	U	0.991	U	1	U	1.01	U
29	Dibenzofuran	1	U	0.991	U	1	U	1.01	U
30	Fluorene	1	U	0.991	U	1	U	1.01	U
31	Pentachlorophenol	5.1	U	4.96	U	5	U	5.05	U
32	bis(2-Ethylhexyl)phthalate	1	U	0.991	U	1	U	1.01	U
33									
34	**VOLATILES (µg/L)**								
35	**EPA Method SW8260**								
36	Acetone	5	U	50	U	50	U	50	U
37	Carbon Disulfide	1	U	2	U	2	U	2	U
38	2-Butanone	5	U	10	U	10	U	10	U
39	Benzene	1	U	0.4	U	0.3	U	0.3	U
40	Bromoform	1	U	1	U	1	U	1	U
41	Toluene	1	U	1	U	1	U	1	U
42	Ethylbenzene	1	U	1	U	1	U	1	U
43	Styrene	1	U	1	U	1	U	1	U
44	m,p-Xylene	1	U	2	U	2	U	2	U
45	o-Xylene	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U
48	Isopropylbenzene	**1.1**		1	U	**1.13**	J	1	U
49	n-Propylbenzene	1	U	1	U	**1.19**	J	1	U
50	tert-Butylbenzene	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	1	U	1	U	1	U	1	U
52	4-Isopropyltoluene	1	U	1	U	1	U	1	U
53	n-Butylbenzene	1	U	1	U	1	U	1	U
54	Naphthalene	5	U	1	U	1	U	1	U
55	Methyl tert-butyl ether	NA		1	U	1	U	1	U
56									
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**								
58	**Method OR-DEQ**								
59	**TPH-Diesel**	NA		NA		NA		NA	
60	**TPH-D Motor Oil**	NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA	
62									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			D		D		D		D		D		D		D		D		D		D		D		D		D	
4			S177L		T176B		U235F		V208H		W391B		Y336D		Z225I		Z960I		AH76J		AU22D		BC27N		9912050-02A		BH96B	
5			4/2/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/18/99		5/19/99		9/20/99		12/8/99		12/8/1999 (d)		2/17/00	
63	56	**PRIORITY POLLUTANT**																										
64	57	**METALS (mg/L)**																										
65	58	Arsenic (7060)	**0.013**		**0.013**		0.05	U	0.05	U	**0.016**		**0.014**		**0.018**		**0.021**		**0.015**		**0.016**		**0.015**		NA		**0.019**	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	NA		0.005	U
67	60	Copper (6010)	**0.003**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.004**		0.002	U	0.002	U	0.002	U	NA		0.002	U
68	61	Lead (7421)	0.001	U	0.001	U	0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	**0.004**		0.001	U	0.001	U	0.001	U	NA		0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	NA		0.01	U
70	63	Zinc (6010)	0.004	U	0.004	U	0.004	U	0.004	U	**0.007**	J2	0.004	U	0.004	U	**0.020**	J	0.004	U	0.004	U	0.008	U	NA		0.006	U
71	64																											
72	65	**MAJOR IONS AND CONVENTIONALS**																										
73	66	Calcium (mg/L) (6010)	**45.0**		**42.8**		**52.4**		**58.0**		NA		NA		NA		**49.1**		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**16.2**		**15.4**		**18.8**		**20.9**		NA		NA		NA		**16.9**		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**2.3**		**2.1**		**2.6**		**2.2**		NA		NA		NA		**2.7**		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**8.31**		**7.96**		**9.13**		**9.54**		NA		NA		NA		**9.67**		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**200**		**180**		**220**		**280**		NA		NA		NA		**210**		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**200**		**180**		**220**		**280**		NA		NA		NA		**210**		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**230**	J2	**240**		**300**		**240**		**240**		**230**		**250**		**260**		**280**		**190**		NA		**310**	
81	74	Chloride (mg/L) (EPA 325.2)	**11**		**2.0**		**2.4**		**2.4**		**3.2**		**1.4**		**2.1**		**2.8**		**2.0**		**2.8**		**2.8**		NA		**3.4**	
82	75	N-Nitrate (mg-N/L) (Calculated)	0.010	U	0.010	U	0.010	U	0.010	U	NA		NA		NA		**0.049**		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	**0.022**	J	0.010	U	0.010	U	**0.011**		NA		NA		NA		**0.015**		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.03**		0.010	U	0.010	U	**0.014**		NA		NA		NA		**0.064**		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	2.5	U	2.5	U	**4.7**		2.5	U	NA		NA		NA		**5.8**		NA		NA		NA		NA		NA	
86	79																											

BZTO104(e)021714

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		D		D		D		D		D		D		D		D		D		D		D		D		D		D	
4		BR55E		CB49D		CK77F		CT37F		DE68G		DM30M		DW37E		ED34G		EM85B		ER93P		EZ03C		FF76G		FL58K		FU45C	
5		5/22/00		8/28/00		11/7/00		2/12/01		6/4/01		8/14/01		11/28/01		2/28/02		6/26/02		08/27/02		11/12/02		2/12/03		5/8/03		8/28/03	
63	**PRIORITY POLLUTANT**																												
64	**METALS (mg/L)**																												
65	Arsenic (7060)	**0.019**		**0.016**		**0.014**		**0.016**		**0.016**		**0.018**		**0.021**		**0.014**		**0.013**		**0.017**		0.05	U	**0.016**		**0.022**		**0.017**	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.002**		0.002	U	**0.003**		0.002	U	0.002	U	0.002	U	0.002	U
68	Lead (7421)	**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	0.02	U	0.001	U	**0.002**		0.001	U
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	Zinc (6010)	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	**0.019**		0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U
71																													
72	**MAJOR IONS AND CONVENTIONALS**																												
73	Calcium (mg/L) (6010)	NA		NA		NA		**40.6**		**43.4**		**34.3**		**40.1**	J	**32.2**		NA		NA		NA		**75.2**		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		**13.8**		**14.9**		**12.0**		**14.0**	J	**11.3**		NA		NA		NA		**26.1**		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		**1.8**		**2.2**		**1.9**		**2.2**		**2.0**		NA		NA		NA		**3**		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		**7.40**		**7.64**		**6.73**		**7.77**		**7.57**		NA		NA		NA		**10.8**		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		**200**		NA		NA		NA		**140**		NA		NA		NA		**350**		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		1	U	NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		**200**		NA		NA		NA		**140**		NA		NA		NA		**350**		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**290**		**230**		**220**		**240**		**240**		**180**		**220**		**200**		**260**		**320**		**320**		**360**		**350**		**290**	
81	Chloride (mg/L) (EPA 325.2)	**3.2**		**3.1**		**5.4**		**5.4**		**2.4**		**4.5**		**2.4**		**2.9**		**3.3**		**3**		**3.1**		**4.2**		**3.5**		**1.8**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		0.010	U	NA		NA		NA		**0.020**		NA		NA		NA		**0.19**		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		0.010	U	NA		NA		NA		0.010	U	NA		NA		NA		0.01	U	NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		0.010	UJ	NA		NA		NA		**0.020**		NA		NA		NA		**0.19**		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		**6.1**		NA		NA		NA		**12**		NA		NA		NA		**4**		NA		NA	
86																													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL
1									
2									
3		D		D		D		D	
4		FY82H		0402105-03		0408036-01		0502102-05	
5		10/23/03		2/20/04		8/05/04		2/23/05	
63	**PRIORITY POLLUTANT**								
64	**METALS (mg/L)**								
65	Arsenic (7060)	**0.018**		**0.021**		**0.0185**		**0.0188**	
66	Chromium (6010)	0.005	U	**0.0078**		**0.019**		**0.0097**	
67	Copper (6010)	0.002	U	0.01	U	0.01	U	0.01	U
68	Lead (7421)	0.001	U	**0.0021**		0.0001	U	0.000146	U
69	Nickel (6010)	0.01	U	0.005	U	0.005	U	0.005	U
70	Zinc (6010)	0.006	U	0.01	U	0.01	U	0.01	U
71									
72	**MAJOR IONS AND CONVENTIONALS**								
73	Calcium (mg/L) (6010)	NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**260**		**291**		**308**		**244**	
81	Chloride (mg/L) (EPA 325.2)	**2.4**		**3.69**		**3.52**		**3.83**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA	
86									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			D		D		D		D		D		D		D		D		D		D		D		D		D	
4			S177L		T176B		U235F		V208H		W391B		Y336D		Z225I		Z960I		AH76J		AU22D		BC27N		9912050-02A		BH96B	
5			4/2/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/18/99		5/19/99		9/20/99		12/8/99		12/8/1999 (d)		2/17/00	
87	80	**FIELD PARAMETERS**																										
88	81	pH (avg)	6.85		6.68		6.96		6.83		6.44		6.53		6.26		6.74		6.24		6.11		6.53		NM		6.69	
89	82	Temperature (° C) (avg)	13.4		14.6		14.7		14.3		14.9		15.1		13.5		12.8		13.1		15.3		13.5		NM		13.7	
90	83	Conductivity (um/hos)	391		409		366		487		424		481		415		472		422		414		319		NM		531	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		2.65		1.70		1.70		1.75		2.08		1.69		2.47		NM		5.09	
92	85																											
93	86	**DIOXINS AND FURANS (ng/L)**																										
94	87	**Method 8290**																										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		10	U	NA	
122																												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		D		D		D		D		D		D		D		D		D		D		D		D		D		D	
4		BR55E		CB49D		CK77F		CT37F		DE68G		DM30M		DW37E		ED34G		EM85B		ER93P		EZ03C		FF76G		FL58K		FU45C	
5		5/22/00		8/28/00		11/7/00		2/12/01		6/4/01		8/14/01		11/28/01		2/28/02		6/26/02		08/27/02		11/12/02		2/12/03		5/8/03		8/28/03	
87	**FIELD PARAMETERS**																												
88	pH (avg)	6.77		6.47		5.41		6.52		6.65		6.94		6.62		6.58		6.42		6.77		6.63		7.06		6.82		6.93	
89	Temperature (° C) (avg)	12.1		15.4		14.3		14.2		14.4		14.5		15.0		11.9		13.8		15.7		14.6		15.6		14.5		14.9	
90	Conductivity (um/hos)	446		357		300		331		344		331		334		260		452		442		532		707		495		410	
91	Dissolved oxygen (mg/L) (avg)	1.99		1.56		2.04		1.29		1.29		1.54		4.01		7.74		4.39		0.69		2.16		0		2.71		1.84	
92																													
93	**DIOXINS AND FURANS (ng/L)**																												
94	**Method 8290**																												
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																													
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL
1									
2									
3		D		D		D		D	
4		FY82H		0402105-03		0408036-01		0502102-05	
5		10/23/03		2/20/04		8/05/04		2/23/05	
87	**FIELD PARAMETERS**								
88	pH (avg)	6.71		6.61		6.12		6.79	
89	Temperature (° C) (avg)	15.0		13.1		14.9		15.2	
90	Conductivity (um/hos)	382		441		630		210	
91	Dissolved oxygen (mg/L) (avg)	1.66		2.36		2.21		0	
92									
93	**DIOXINS AND FURANS (ng/L)**								
94	**Method 8290**								
95	2,3,7,8-TCDF	NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA	
120									
121	**ETHANOL (mg/L)**	NA		NA		NA		NA	
122									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			D		D		D		D		D		D		D		D		D		D		D		D		D	
4			S177L		T176B		U235F		V208H		W391B		Y336D		Z225I		Z960I		AH76J		AU22D		BC27N		9912050-02A		BH96B	
5			4/2/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/18/99		5/19/99		9/20/99		12/8/99		12/8/1999 (d)		2/17/00	
123		**PAHs (µg/L)**																										
124		**EPA Method SW8270 SIM**																										
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		D		D		D		D		D		D		D		D		D		D		D		D		D		D	
4		BR55E		CB49D		CK77F		CT37F		DE68G		DM30M		DW37E		ED34G		EM85B		ER93P		EZ03C		FF76G		FL58K		FU45C	
5		5/22/00		8/28/00		11/7/00		2/12/01		6/4/01		8/14/01		11/28/01		2/28/02		6/26/02		08/27/02		11/12/02		2/12/03		5/8/03		8/28/03	
123	**PAHs (µg/L)**																												
124	**EPA Method SW8270 SIM**																												
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL
1									
2									
3		D		D		D		D	
4		FY82H		0402105-03		0408036-01		0502102-05	
5		10/23/03		2/20/04		8/05/04		2/23/05	
123	**PAHs (µg/L)**								
124	**EPA Method SW8270 SIM**								
125	Naphthalene	NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		1	U	NA	
128	Acenaphthene	NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA	
130	Anthracene	NA		NA		1	U	NA	
131	Dibenzofuran	NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			F	
4			Y314H	
5			8/18/98	
6				
7	1	**CHLORINATED PHENOLS (µg/L)**		
8	2	**EPA Method SW8040**		
9	3	Pentachlorophenol	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U
15	9	2,3,4,5-Tetrachlorophenol	0.25	U
16	10			
17	11	**SEMIVOLATILES (µg/L)**		
18	12	**EPA Method SW8270**		
19	13	Phenol	2.0	U
20	14	4-Methylphenol	1.0	U
21	15	Isophorone	1.0	U
22	16	2,4-Dimethylphenol	3.0	U
23	17	Benzoic Acid	10	U
24	18	Naphthalene	1.0	U
25	19	2-Methylnaphthalene	1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U
28	22	Acenaphthene	1.0	U
29	23	Dibenzofuran	1.0	U
30	24	Fluorene	1.0	U
31	25	Pentachlorophenol	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	U
33	27			
34	28	**VOLATILES (µg/L)**		
35	29	**EPA Method SW8260**		
36	30	Acetone	5.0	U
37	31	Carbon Disulfide	1.0	U
38	32	2-Butanone	5.0	U
39	33	Benzene	1.0	U
40	34	Bromoform	1.0	U
41	35	Toluene	1.0	U
42	36	Ethylbenzene	1.0	U
43	37	Styrene	1.0	U
44	38	m,p-Xylene	1.0	U
45	39	o-Xylene	1.0	U
46	40	1,3,5-Trimethylbenzene	1.0	U
47	41	1,2,4-Trimethylbenzene	1.0	U
48	42	Isopropylbenzene	1.0	U
49	43	n-Propylbenzene	1.0	U
50	44	tert-Butylbenzene	1.0	U
51	45	sec-Butylbenzene	1.0	UJ
52	46	4-Isopropyltoluene	1.0	U
53	47	n-Butylbenzene	1.0	U
54	48	Naphthalene	5.0	U
55	48.5	Methyl tert-butyl ether	NA	
56	49			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	51	**Method OR-DEQ**		
59	52	**TPH-Diesel**	0.25	U
60	53	**TPH-D Motor Oil**	NA	
61	54	**TPH-Gasoline**	NA	
62	55			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			F	
4			Y314H	
5			8/18/98	
63	56	**PRIORITY POLLUTANT**		
64	57	**METALS (mg/L)**		
65	58	Arsenic (7060)	**0.034**	
66	59	Chromium (6010)	**0.042**	
67	60	Copper (6010)	**0.016**	
68	61	Lead (7421)	**0.006**	
69	62	Nickel (6010)	**0.03**	
70	63	Zinc (6010)	**0.047**	
71	64			
72	65	**MAJOR IONS AND CONVENTIONALS**		
73	66	Calcium (mg/L) (6010)	NA	
74	67	Magnesium (mg/L) (6010)	NA	
75	68	Potassium (mg/L) (6010)	NA	
76	69	Sodium (mg/L) (6010)	NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**200**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.1**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA	
86	79			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			F	
4			Y314H	
5			8/18/98	
87	80	**FIELD PARAMETERS**		
88	81	pH (avg)	6.37	
89	82	Temperature (° C) (avg)	14.2	
90	83	Conductivity (um/hos)	448	
91	84	Dissolved oxygen (mg/L) (avg)	2.30	
92	85			
93	86	**DIOXINS AND FURANS (ng/L)**		
94	87	**Method 8290**		
95	88	2,3,7,8-TCDF	NA	
96	89	Total TCDF	NA	
97	90	2,3,7,8-TCDD	NA	
98	91	Total TCDD	NA	
99	92	1,2,3,7,8-PeCDF	NA	
100	93	2,3,4,7,8-PeCDF	NA	
101	94	Total PeCDF	NA	
102	95	1,2,3,7,8-PeCDD	NA	
103	96	Total PeCDD	NA	
104	97	1,2,3,4,7,8-HxCDF	NA	
105	98	1,2,3,6,7,8-HxCDF	NA	
106	99	2,3,4,6,7,8-HxCDF	NA	
107	100	1,2,3,7,8,9-HxCDF	NA	
108	101	Total HxCDF	NA	
109	102	1,2,3,4,7,8-HxCDD	NA	
110	103	1,2,3,6,7,8-HxCDD	NA	
111	104	1,2,3,7,8,9-HxCDD	NA	
112	105	Total HxCDD	NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	
115	108	Total HpCDF	NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	
117	110	Total HpCDD	NA	
118	111	OCDF	NA	
119	112	OCDD	NA	
120				
121		**ETHANOL (mg/L)**	NA	
122				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			F	
4			Y314H	
5			8/18/98	
123		**PAHs (µg/L)**		
124		**EPA Method SW8270 SIM**		
125		Naphthalene	NA	
126		2-Methylnaphthalene	NA	
127		Acenaphthylene	NA	
128		Acenaphthene	NA	
129		Fluorene	NA	
130		Anthracene	NA	
131		Dibenzofuran	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			H		H		H		H		H		H		H		H		H		H		H		H		H		H
4			S177B		T176D		U235V		V208C		W371F		Y314A		Z225V		Z960X		AH27D		AU22A		BB82E		BH75K		BR55N		CT37N
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/17/98		11/13/98		2/16/99		5/17/99		9/20/99		12/6/99		2/15/00		5/23/00		2/12/01
6																													
7	1	**CHLORINATED PHENOLS (µg/L)**																											
8	2	**EPA Method SW8040**																											
9	3	Pentachlorophenol	0.25	U	**0.16**	J1	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.44**		0.25	U	0.25	U	**0.19**	J1	0.25	U	0.25	UJ	0.25
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA
16	10																												
17	11	**SEMIVOLATILES (µg/L)**																											
18	12	**EPA Method SW8270**																											
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
33	27																												
34	28	**VOLATILES (µg/L)**																											
35	29	**EPA Method SW8260**																											
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																												
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																											
58	51	**Method OR-DEQ**																											
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH
1						
2						
3			H		H	
4			ED16K		FF88N	
5			2/25/02		2/13/03	
6						
7	**CHLORINATED PHENOLS (µg/L)**					
8	**EPA Method SW8040**					
9	Pentachlorophenol	U	0.26	U	0.25	U
10	2,4,6-Trichlorophenol		NA		NA	
11	2,3,6-Trichlorophenol		NA		NA	
12	2,4,5-Trichlorophenol		NA		NA	
13	2,3,4-Trichlorophenol		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol		NA		NA	
15	2,3,4,5-Tetrachlorophenol		NA		NA	
16						
17	**SEMIVOLATILES (µg/L)**					
18	**EPA Method SW8270**					
19	Phenol		NA		NA	
20	4-Methylphenol		NA		NA	
21	Isophorone		NA		NA	
22	2,4-Dimethylphenol		NA		NA	
23	Benzoic Acid		NA		NA	
24	Naphthalene		NA		NA	
25	2-Methylnaphthalene		NA		NA	
26	2,4,6-Trichlorophenol		NA		NA	
27	2,4,5-Trichlorophenol		NA		NA	
28	Acenaphthene		NA		NA	
29	Dibenzofuran		NA		NA	
30	Fluorene		NA		NA	
31	Pentachlorophenol		NA		NA	
32	bis(2-Ethylhexyl)phthalate		NA		NA	
33						
34	**VOLATILES (µg/L)**					
35	**EPA Method SW8260**					
36	Acetone		NA		NA	
37	Carbon Disulfide		NA		NA	
38	2-Butanone		NA		NA	
39	Benzene		NA		NA	
40	Bromoform		NA		NA	
41	Toluene		NA		NA	
42	Ethylbenzene		NA		NA	
43	Styrene		NA		NA	
44	m,p-Xylene		NA		NA	
45	o-Xylene		NA		NA	
46	1,3,5-Trimethylbenzene		NA		NA	
47	1,2,4-Trimethylbenzene		NA		NA	
48	Isopropylbenzene		NA		NA	
49	n-Propylbenzene		NA		NA	
50	tert-Butylbenzene		NA		NA	
51	sec-Butylbenzene		NA		NA	
52	4-Isopropyltoluene		NA		NA	
53	n-Butylbenzene		NA		NA	
54	Naphthalene		NA		NA	
55	Methyl tert-butyl ether		NA		NA	
56						
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**					
58	**Method OR-DEQ**					
59	**TPH-Diesel**		NA		NA	
60	**TPH-D Motor Oil**		NA		NA	
61	**TPH-Gasoline**		NA		NA	
62						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			H		H		H		H		H		H		H		H		H		H		H		H		H		H
4			S177B		T176D		U235V		V208C		W371F		Y314A		Z225V		Z960X		AH27D		AU22A		BB82E		BH75K		BR55N		CT37N
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/17/98		11/13/98		2/16/99		5/17/99		9/20/99		12/6/99		2/15/00		5/23/00		2/12/01
63	56	**PRIORITY POLLUTANT**																											
64	57	**METALS (mg/L)**																											
65	58	Arsenic (7060)	**0.013**		**0.019**		0.05	U	0.05	U	**0.013**		**0.013**		**0.015**		**0.023**		**0.023**		**0.020**		**0.012**		**0.020**		**0.019**		**0.015**
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
67	60	Copper (6010)	**0.003**		**0.006**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.010**		**0.011**		0.002	U	0.002	U	0.002	U	**0.003**		**0.004**
68	61	Lead (7421)	0.001	U	**0.001**		0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	0.001
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
70	63	Zinc (6010)	0.004	U	**0.014**	J2	**0.010**		**0.005**		**0.004**	J2	**0.006**		0.004	U	**0.012**	J	0.019	U	**0.006**		0.006	U	0.006	U	0.006	U	0.006
71	64																												
72	65	**MAJOR IONS AND CONVENTIONALS**																											
73	66	Calcium (mg/L) (6010)	**22.4**		**27.7**		**25.4**		**24.9**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
74	67	Magnesium (mg/L) (6010)	**7.80**		**9.86**		**8.80**		**8.27**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
75	68	Potassium (mg/L) (6010)	**2.3**		**2.2**		**2.4**		**2.3**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
76	69	Sodium (mg/L) (6010)	**5.41**		**6.27**		**5.92**		**5.70**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**100**		**110**		**110**		**120**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**100**		**110**		**110**		**120**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**160**	J2	**140**		**150**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
81	74	Chloride (mg/L) (EPA 325.2)	**1.5**		**2.0**		**2.7**		**1.6**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.016**		0.010	U	**0.011**		0.010	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	0.010	U	0.010	U	0.010	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.016**		0.010	U	**0.011**		0.010	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	**4.8**	J	2.5	U	**3.6**		**6.3**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
86	79																												

BZTO104(e)021729

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH
1						
2						
3			H		H	
4			ED16K		FF88N	
5			2/25/02		2/13/03	
63	**PRIORITY POLLUTANT**					
64	**METALS (mg/L)**					
65	Arsenic (7060)		**0.021**		**0.017**	
66	Chromium (6010)	U	0.005	U	0.005	U
67	Copper (6010)		**0.007**		**0.004**	
68	Lead (7421)	U	**0.001**		0.001	U
69	Nickel (6010)	U	0.01	U	0.01	U
70	Zinc (6010)	U	**0.008**		**0.01**	
71						
72	**MAJOR IONS AND CONVENTIONALS**					
73	Calcium (mg/L) (6010)		NA		NA	
74	Magnesium (mg/L) (6010)		NA		NA	
75	Potassium (mg/L) (6010)		NA		NA	
76	Sodium (mg/L) (6010)		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		NA		NA	
81	Chloride (mg/L) (EPA 325.2)		NA		NA	
82	N-Nitrate (mg-N/L) (Calculated)		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)		NA		NA	
86						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			H		H		H		H		H		H		H		H		H		H		H		H		H		H
4			S177B		T176D		U235V		V208C		W371F		Y314A		Z225V		Z960X		AH27D		AU22A		BB82E		BH75K		BR55N		CT37N
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/17/98		11/13/98		2/16/99		5/17/99		9/20/99		12/6/99		2/15/00		5/23/00		2/12/01
87	80	**FIELD PARAMETERS**																											
88	81	pH (avg)	6.77		6.85		7.02		6.85		6.37		6.56		6.41		7.07		7.07		7.07		6.26		6.64		6.58		6.54
89	82	Temperature (° C) (avg)	13.7		15.1		15.1		14.4		15.0		14.8		14.4		14.3		14.3		14.3		14.5		13.5		14.2		13.3
90	83	Conductivity (um/hos)	212		283		225		243		186		251		100		193		193		193		258		223		191		230
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		1.40		1.69		1.60		1.60		1.60		2.34		2.18		2.00		3.06
92	85																												
93	86	**DIOXINS AND FURANS (ng/L)**																											
94	87	**Method 8290**																											
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																													
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
122																													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH
1						
2						
3			H		H	
4			ED16K		FF88N	
5			2/25/02		2/13/03	
87	**FIELD PARAMETERS**					
88	pH (avg)		6.29		7.01	
89	Temperature (° C) (avg)		13.4		14.9	
90	Conductivity (um/hos)		292		369	
91	Dissolved oxygen (mg/L) (avg)		4.89		0	
92						
93	**DIOXINS AND FURANS (ng/L)**					
94	**Method 8290**					
95	2,3,7,8-TCDF		NA		NA	
96	Total TCDF		NA		NA	
97	2,3,7,8-TCDD		NA		NA	
98	Total TCDD		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA	
101	Total PeCDF		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA	
103	Total PeCDD		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA	
108	Total HxCDF		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA	
112	Total HxCDD		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA	
115	Total HpCDF		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA	
117	Total HpCDD		NA		NA	
118	OCDF		NA		NA	
119	OCDD		NA		NA	
120						
121	**ETHANOL (mg/L)**		NA		NA	
122						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			H		H		H		H		H		H		H		H		H		H		H		H		H		H
4			S177B		T176D		U235V		V208C		W371F		Y314A		Z225V		Z960X		AH27D		AU22A		BB82E		BH75K		BR55N		CT37N
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/17/98		11/13/98		2/16/99		5/17/99		9/20/99		12/6/99		2/15/00		5/23/00		2/12/01
123		**PAHs (µg/L)**																											
124		**EPA Method SW8270 SIM**																											
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH
1						
2						
3			H		H	
4			ED16K		FF88N	
5			2/25/02		2/13/03	
123	**PAHs (µg/L)**					
124	**EPA Method SW8270 SIM**					
125	Naphthalene		NA		NA	
126	2-Methylnaphthalene		NA		NA	
127	Acenaphthylene		NA		NA	
128	Acenaphthene		NA		NA	
129	Fluorene		NA		NA	
130	Anthracene		NA		NA	
131	Dibenzofuran		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1																									
2					Dup of J1								Dup of J1												
3			J1		J1D		J1		J1		J1		J4		J1		J1		J1		J1		J1		J1
4			S177H		S177I		T176P		U235J		V224O		V224K		W371N		Y314I		Z225O		Z960C		AH49C		AU22H
5			4/2/97		4/2/97		7/16/97		10/22/97		1/29/98		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/20/99
6																									
7	1	**CHLORINATED PHENOLS (µg/L)**																							
8	2	**EPA Method SW8040**																							
9	3	Pentachlorophenol	**32**		**33**		**24**		**7.8**		**7.3**		**8.4**		**7.5**		**5.8**		**2.0**		**8.3**		**4.6**		**1.7**
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
12	6	2,4,5-Trichlorophenol	0.4	U	0.25	U	0.27	U	0.67	U	**0.29**		**0.22**	J1	**0.25**		0.25	U	0.25	U	0.25	U	0.25	U	0.25
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**3.4**		**3.4**		**3.0**		**1.8**		**0.98**		**1.1**		**0.51**		**0.33**		0.25	U	**0.43**		0.17	J1	0.25
15	9	2,3,4,5-Tetrachlorophenol	**0.94**		**0.70**		**0.5**		**0.28**		**0.23**	J1	**0.20**	J1	**0.16**	J1	**0.23**	J1	0.25	U	0.25	U	0.25	U	0.25
16	10																								
17	11	**SEMIVOLATILES (µg/L)**																							
18	12	**EPA Method SW8270**																							
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10
24	18	Naphthalene	1.0	U	1.0	U	**1.1**		**1.9**		**2.5**		**2.4**		**2.8**	J2	**1.4**		1.0	U	**3.6**		**2.4**		**1.1**
25	19	2-Methylnaphthalene	1.0	U	1.0	U	**1.1**		**1.8**		**2.6**		**2.4**		**2.9**	J2	**1.3**		1.0	U	**3.5**		**2.2**		**1.2**
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
31	25	Pentachlorophenol	**44**		**52**		**20**		**11**		**11**		**8.8**		**10**		**6.5**		5.0	U	**12**		**4.4**	J1	5.0
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
33	27																								
34	28	**VOLATILES (µg/L)**																							
35	29	**EPA Method SW8260**																							
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	9.9	U	5.0	U	5.0
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
42	36	Ethylbenzene	**6.5**		**5.9**		**12**		**7.5**		**4.0**		**3.3**		**8.4**		**5.5**		**2.5**		**6.2**		**1.9**		**1.5**
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
44	38	m,p-Xylene	**4.4**		**4.0**		**6.6**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
46	40	1,3,5-Trimethylbenzene	**4.9**		**4.1**		**6.1**		**3.8**		**4.0**	J2	**2.4**	J2	**5.2**		**2.7**		**2.1**		**4.4**		1.0	U	**1.4**
47	41	1,2,4-Trimethylbenzene	**41**		**36**		**47**		**37**	J2	**26**	J2	**19**	J2	**46**		**29**		**16**		**44**		**8.8**		**6.4**
48	42	Isopropylbenzene	**5.0**		**4.2**		**7.9**		**6.9**	J2	**4.2**	J2	**2.7**	J2	**7.7**		**6.6**		**4.8**		**7.6**		**2.1**		**2.4**
49	43	n-Propylbenzene	**8.7**		**7.2**		**14**		**14**		**8.0**	J2	**5.0**	J2	**14**		**11**		**7.5**		**12**		**3.4**		**4.4**
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
51	45	sec-Butylbenzene	**1.6**		**1.4**		**2.2**		**1.8**	J2	**1.3**		1.0	U	**2.0**		**1.6**	J2	1.0	U	**2.6**		1.0	U	1.0
52	46	4-Isopropyltoluene	1.0	U	1.0	U	**1.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
53	47	n-Butylbenzene	**1.3**		**1.1**		**1.9**		**1.7**	J2	**1.1**		1.0	U	**2.0**		**1.3**		1.0	U	**1.2**		1.0	U	1.0
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**5.4**		5.0	U	5.0
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																								
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																							
58	51	**Method OR-DEQ**																							
59	52	**TPH-Diesel**	**0.30**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.52**		0.25	U	0.25
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																								

BZTO104(e)021735

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA
3			J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1
4			BC27K		9912050-03A		BH96R		BR64D		CB49G		CL03H		CT55F		DE68I		DM52B		DW48C		ED23C		EM85D		ES04F		EZ03K
5			12/8/99		12/8/1999 (d)		2/16/00		5/24/00		8/29/00		11/10/00		2/14/01		6/5/01		8/14/01		11/29/01		2/26/02		6/26/02		08/28/02		11/12/02
7	**CHLORINATED PHENOLS (µg/L)**																												
8	**EPA Method SW8040**																												
9	Pentachlorophenol		**0.94**		NA		**0.81**		**1.7**		0.25	U	0.25	U	**0.50**		**0.36**		0.25	U	**0.25**		NA		**4.4**		**3.1**		**0.57**
10	2,4,6-Trichlorophenol	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA
11	2,3,6-Trichlorophenol	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA
12	2,4,5-Trichlorophenol	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA
13	2,3,4-Trichlorophenol	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA
15	2,3,4,5-Tetrachlorophenol	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA
16																													
17	**SEMIVOLATILES (µg/L)**																												
18	**EPA Method SW8270**																												
19	Phenol	U	2.0	U	NA		2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.3	U	2
20	4-Methylphenol	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1
21	Isophorone	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1
22	2,4-Dimethylphenol	U	3.0	U	NA		3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.5	U	3
23	Benzoic Acid	U	10	U	NA		10	U	10	U	10	U	10	U	10	U	10	U	10	U	30	U	50	U	50	U	58	U	50
24	Naphthalene		**0.7**	J1	NA		**1.4**		**3.6**		1.0	U	1.0	U	**2.9**		**1.3**		1.0	U	1.0	U	1.0	U	**1.4**		1.2	U	**1**
25	2-Methylnaphthalene		**0.5**	J1	NA		**1.2**		**3.3**		1.0	U	1.0	U	**3.0**		**1.5**		1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1
26	2,4,6-Trichlorophenol	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.8	U	5
27	2,4,5-Trichlorophenol	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.8	U	5
28	Acenaphthene	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1
29	Dibenzofuran	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1
30	Fluorene	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1
31	Pentachlorophenol	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**280**		5.0	U	5.8	U	5
32	bis(2-Ethylhexyl)phthalate	U	**0.6**	J1	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**25**		1.0	U	1.0	U	4.0	U	4.0	U	4.7	U	4
33																													
34	**VOLATILES (µg/L)**																												
35	**EPA Method SW8260**																												
36	Acetone	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	12	U	5.0	U	5.0	U	5.0	U	**10**	M	5	U	5
37	Carbon Disulfide	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1
38	2-Butanone	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5
39	Benzene	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1
40	Bromoform	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1
41	Toluene	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1
42	Ethylbenzene		1.0	U	NA		1.0	U	**3.4**		1.0	U	1.0	U	**1.2**		**1.2**		1.0	U	1.0	U	1.0	U	**1.1**		1	U	1
43	Styrene	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1
44	m,p-Xylene	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.5**		1.0	U	1	U	1
45	o-Xylene	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**3.0**		1.0	U	1	U	1
46	1,3,5-Trimethylbenzene		1.0	U	NA		1.0	U	**3.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**6.4**		1.0	U	1	U	1
47	1,2,4-Trimethylbenzene		**2.4**		NA		**2.4**		**7.4**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**50**		1.0	U	1	U	1
48	Isopropylbenzene		**1.2**		NA		**1.3**		**8.2**		**1.5**		**2.5**		**3.3**		**4.7**		1.0	U	**1.3**		**3.5**		**8.4**		**5.2**		**3.5**
49	n-Propylbenzene		**1.9**		NA		**2.0**		**13**		**3.3**		**3.8**		**5.7**		**8.3**		**1.1**		**2.2**		**4.0**		**12**		**7.8**		**4.9**
50	tert-Butylbenzene	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1
51	sec-Butylbenzene	U	1.0	U	NA		1.0	U	**1.6**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.0**		1	U	1
52	4-Isopropyltoluene	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.2**		1.0	U	1	U	1
53	n-Butylbenzene	U	1.0	U	NA		1.0	U	**1.4**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1
54	Naphthalene	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5
55	Methyl tert-butyl ether		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56																													
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
58	**Method OR-DEQ**																												
59	**TPH-Diesel**	U	0.25	U	NA		0.25	U	0.25	(a)	0.25	U	0.25	U	**0.30**	(d)	NA		NA		NA		**2.1**		NA		NA		NA
60	**TPH-D Motor Oil**		NA		NA		NA		NA		NA		0.50	U	NA		NA		NA		NA		NA		NA		NA		NA
61	**TPH-Gasoline**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62																													

BZTO104(e)021736

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR
3			J1		J1		J1		J1		J1		J1		J1		J1	
4			FF76J		FL58I		FU31A		FY64H		0402105-01		0408019-04		0502102-02		P5F0342-04	
5			2/12/03		5/8/03		8/27/03		10/21/03		2/20/04		8/03/04		2/23/05		6/7/05	
7	**CHLORINATED PHENOLS (µg/L)**																	
8	**EPA Method SW8040**																	
9	Pentachlorophenol		**0.35**		**0.73**		**1.3**		**0.65**		**1.13**		0.5	U	0.48	U	0.500	U
10	2,4,6-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
17	**SEMIVOLATILES (µg/L)**																	
18	**EPA Method SW8270**																	
19	Phenol	U	2.1	U	2	U	2	U	2.1	U	1.93	UJ	2.01	U	1.92	U	5.00	U
20	4-Methylphenol	U	1	U	1	U	1	U	1.1	U	9.63	U	10.1	U	9.58	U	5.00	U
21	Isophorone	U	1	U	1	U	1	U	1.1	U	0.963	U	1.01	U	0.958	U	5.00	U
22	2,4-Dimethylphenol	U	3.1	U	3	U	3	U	3.2	U	2.89	U	3.02	U	2.87	U	10.00	U
23	Benzoic Acid	U	52	U	50	U	50	U	11	U	19.3	U	20.1	U	19.2	U	50.0	U
24	Naphthalene		1	U	1	U	**1.5**		**2.1**		**1.41**		1.01	U	0.958	U	5.00	U
25	2-Methylnaphthalene	U	1	U	1	U	1	U	**1.4**		**1**		1.01	U	0.958	U	5.00	U
26	2,4,6-Trichlorophenol	U	5.2	U	5	U	5	U	5.3	U	4.82	U	5.03	U	4.79	U	5.00	U
27	2,4,5-Trichlorophenol	U	5.2	U	5	U	5	U	5.3	U	4.82	U	5.03	U	4.79	U	5.00	U
28	Acenaphthene	U	1	U	1	U	1	U	1.1	U	0.963	U	1.01	U	0.958	U	5.00	U
29	Dibenzofuran	U	1	U	1	U	1	U	1.1	U	0.963	U	1.01	U	0.958	U	5.00	U
30	Fluorene	U	1	U	1	U	1	U	1.1	U	0.963	U	1.01	U	0.958	U	5.00	U
31	Pentachlorophenol	U	5.2	U	5	U	5	U	5.3	U	4.82	U	5.03	U	4.79	U	10	U
32	bis(2-Ethylhexyl)phthalate	U	1	U	1	U	1	U	1.1	U	0.963	U	1.01	U	0.958	U	10.00	U
34	**VOLATILES (µg/L)**																	
35	**EPA Method SW8260**																	
36	Acetone	U	5	U	5	U	5	U	5	U	50	U	50	U	50	U	25.0	U
37	Carbon Disulfide	U	1	U	1	U	1	U	1	U	2	U	2	U	2	U	10.00	U
38	2-Butanone	U	5	U	5	U	5	U	5	U	10	U	10	U	10	U	10.00	U
39	Benzene	U	1	U	1	U	1	U	1	U	0.4	U	0.3	U	0.3	U	1.00	U
40	Bromoform	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
41	Toluene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
42	Ethylbenzene	U	1	U	1	U	1	U	1	U	**2.82**		1	U	1	U	1.00	U
43	Styrene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
44	m,p-Xylene	U	1	U	1	U	1	U	1	U	2	U	2	U	2	U	2.00	U
45	o-Xylene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
46	1,3,5-Trimethylbenzene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
47	1,2,4-Trimethylbenzene	U	**4.5**		1	U	1	U	1	U	**6.76**		1	U	1	U	1.00	U
48	Isopropylbenzene		**5.4**		**1.1**		**14**		**7.1**		**17**		**5.58**	J	1	U	**8.28**	
49	n-Propylbenzene		**7.9**		**1.5**		**21**		**11**		**21.7**		**14**	J	1	U	**12.3**	
50	tert-Butylbenzene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
51	sec-Butylbenzene	U	**1.6**		1	U	**2**		1	U	**3.14**		1	U	1	U	**1.41**	
52	4-Isopropyltoluene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
53	n-Butylbenzene	U	1	U	1	U	**1.7**		1	U	**1.74**		**1.06**	J	1	U	5.00	U
54	Naphthalene	U	5	U	5	U	**5**		5	U	**4.77**		**1.47**	J	1	U	**2.78**	
55	Methyl tert-butyl ether		NA		NA		NA		NA		1	U	1	U	1	U	1.00	U
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																	
58	**Method OR-DEQ**																	
59	**TPH-Diesel**		**0.4**		NA		NA		NA		NA		NA		NA		NA	
60	**TPH-D Motor Oil**		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1																									
2					Dup of J1								Dup of J1												
3			J1		J1D		J1		J1		J1		J4		J1		J1		J1		J1		J1		J1
4			S177H		S177I		T176P		U235J		V224O		V224K		W371N		Y314I		Z225O		Z960C		AH49C		AU22H
5			4/2/97		4/2/97		7/16/97		10/22/97		1/29/98		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/20/99
63	56	**PRIORITY POLLUTANT**																							
64	57	**METALS (mg/L)**																							
65	58	Arsenic (7060)	**0.007**		**0.006**		**0.006**		0.05	U	0.05	U	0.05	U	**0.008**		**0.007**		**0.008**		**0.007**		**0.006**		**0.015**
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
67	60	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002
68	61	Lead (7421)	0.001	U	0.001	U	0.001	U	0.02	U	0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
70	63	Zinc (6010)	0.004	U	0.004	U	0.004	U	0.004	U	**0.005**		**0.006**		0.004	U	**0.004**		0.004	U	**0.008**	J	**0.007**		0.004
71	64																								
72	65	**MAJOR IONS AND CONVENTIONALS**																							
73	66	Calcium (mg/L) (6010)	**26.4**		**26.7**		**26.1**		**27.5**		**30.8**		**30.5**		NA		NA		NA		**20.2**		NA		NA
74	67	Magnesium (mg/L) (6010)	**10.1**		**10.2**		**9.96**		**10.1**		**10.9**		**10.8**		NA		NA		NA		**6.67**		NA		NA
75	68	Potassium (mg/L) (6010)	**3.1**		**2.8**		**3.2**		**3.4**		**3.5**		**3.4**		NA		NA		NA		**3.1**		NA		NA
76	69	Sodium (mg/L) (6010)	**7.40**		**7.47**		**8.13**		**8.29**		**8.49**		**8.46**		NA		NA		NA		**8.05**		NA		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**120**		**120**		**100**	**J2**	**130**		**140**		**140**		NA		NA		NA		**74**		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**120**		**120**		**100**	J2	**130**		**140**		**140**		NA		NA		NA		**74**		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		NT		**160**	J2	**180**		**170**		**170**		180		170		140		**140**		**150**		**170**
81	74	Chloride (mg/L) (EPA 325.2)	**4.3**		**5.4**		**3.4**		**2.5**		**2.3**		**2.2**		3.7		1.0	U	1.8		**3.7**		**3.7**		**2.6**
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.057**		**0.011**		0.010	U	**0.025**		**1.8**	J2	**1.4**	J2	NA		NA		NA		**1.8**		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	**0.01**	J	**0.016**	J2	0.010	U	0.010	UJ	0.010	UJ	NA		NA		NA		0.010	U	NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.057**		**0.021**		**0.015**	J2	**0.025**		**1.8**	J2	**1.4**	J2	NA		NA		NA		**1.8**		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	**7.0**	J	**26**	J	**10**		**8.6**		**9.0**		**12**		NA		NA		NA		**15**		NA		NA
86	79																								

BZTO104(e)021738

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA
1																													
2																													
3			J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1
4			BC27K		9912050-03A		BH96R		BR64D		CB49G		CL03H		CT55F		DE68I		DM52B		DW48C		ED23C		EM85D		ES04F		EZ03K
5			12/8/99		12/8/1999 (d)		2/16/00		5/24/00		8/29/00		11/10/00		2/14/01		6/5/01		8/14/01		11/29/01		2/26/02		6/26/02		08/28/02		11/12/02
63	**PRIORITY POLLUTANT**																												
64	**METALS (mg/L)**																												
65	Arsenic (7060)		**0.015**		NA		**0.013**		**0.011**		**0.010**		**0.012**		**0.010**		**0.011**		**0.014**		**0.013**		**0.012**		**0.014**		**0.01**		0.05
66	Chromium (6010)	U	0.005	U	NA		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
67	Copper (6010)	U	0.002	U	NA		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.003**		0.002	U	**0.003**		0.002
68	Lead (7421)	U	**0.001**		NA		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	0.02
69	Nickel (6010)	U	0.01	U	NA		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.01**		0.01	U	0.01	U	0.01
70	Zinc (6010)	U	0.006	U	NA		0.006	U	**0.006**		0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	**0.007**		0.006	U	**0.007**		**0.006**
71																													
72	**MAJOR IONS AND CONVENTIONALS**																												
73	Calcium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		**20.6**		**20.5**		**22.7**		**21.1**		**29.4**		NA		NA		NA
74	Magnesium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		**7.21**		**7.38**		**8.65**		**7.62**		**10.1**		NA		NA		NA
75	Potassium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		**2.3**		**2.4**		**2.6**		**2.6**		**3.4**		NA		NA		NA
76	Sodium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		**6.48**		**6.15**		**6.58**		**6.56**		**8.36**		NA		NA		NA
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		**100**		NA		NA		NA		**130**		NA		NA		NA
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA		NA
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		**100**		NA		NA		NA		**130**		NA		NA		NA
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**160**		NA		**200**		**160**		**160**		**160**		**150**		**160**		**150**		**140**		**210**		**160**		**160**		**180**
81	Chloride (mg/L) (EPA 325.2)		**3.1**		NA		**4.3**		**2.5**		**2.0**		**2.3**		**3.0**		**2.6**		**6.2**		**2.6**		**8.8**		**3.6**		**3.2**		**3.5**
82	N-Nitrate (mg-N/L) (Calculated)		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**2.4**		NA		NA		NA
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**0.018**		NA		NA		NA
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**2.4**	J	NA		NA		NA
85	Sulfate (mg/L) (EPA 375.2)		NA		NA		NA		NA		NA		NA		**10**		NA		NA		NA		**14**		NA		NA		NA
86																													

BZTO104(e)021739

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR
1																		
2																		
3			J1		J1		J1		J1		J1		J1		J1		J1	
4			FF76J		FL58I		FU31A		FY64H		0402105-01		0408019-04		0502102-02		P5F0342-04	
5			2/12/03		5/8/03		8/27/03		10/21/03		2/20/04		8/03/04		2/23/05		6/7/05	
63	**PRIORITY POLLUTANT**																	
64	**METALS (mg/L)**																	
65	Arsenic (7060)	U	**0.014**		**0.014**		**0.009**		**0.006**		**0.009**		**0.0114**		**0.018**		**0.00933**	
66	Chromium (6010)	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.0232**	J	**0.0188**		**0.0068**		0.001	U
67	Copper (6010)	U	**0.004**		0.002	U	0.002	U	**0.002**		0.01	U	0.01	U	0.01	U	0.002	U
68	Lead (7421)	U	**0.002**		0.001	U	0.001	U	0.001	U	**0.0004**		**0.000317**		**0.000543**		0.001	U
69	Nickel (6010)	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.0151**		0.005	U	**0.0509**		**0.0041**	
70	Zinc (6010)		**0.007**		0.006	U	0.006	U	0.006	U	0.01	U	**0.0121**		0.01	U	0.005	U
71																		
72	**MAJOR IONS AND CONVENTIONALS**																	
73	Calcium (mg/L) (6010)		**43.2**		NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)		**16.8**		NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)		**3.1**		NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)		**8.7**		NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		**130**		NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		1	U	NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		**130**		NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**260**		**150**		**220**		**190**		**240**	J	**276**		**497**		**183**	
81	Chloride (mg/L) (EPA 325.2)		**2.9**		**3.8**		**2.3**		**2.2**		**2.76**		**4.13**		**2.72**		**2.88**	
82	N-Nitrate (mg-N/L) (Calculated)		**0.039**		NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		**0.015**		NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		**0.054**		NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)		**110**		NA		NA		NA		NA		NA		NA		NA	
86																		

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1																									
2					Dup of J1								Dup of J1												
3			J1		J1D		J1		J1		J1		J4		J1		J1		J1		J1		J1		J1
4			S177H		S177I		T176P		U235J		V224O		V224K		W371N		Y314I		Z225O		Z960C		AH49C		AU22H
5			4/2/97		4/2/97		7/16/97		10/22/97		1/29/98		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/20/99
87	80	**FIELD PARAMETERS**																							
88	81	pH (avg)	6.75		6.75		6.62		6.75		6.66		6.65		6.56		6.35		6.17		6.43		5.77		6.33
89	82	Temperature (° C) (avg)	12.8		12.8		14.7		15.3		14.5		14.5		12.6		15.5		15.0		13.1		12.9		16.6
90	83	Conductivity (um/hos)	319		319		256		239		314		315		289		330		138		207		241		222
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		NA		2.85		2.20		1.82		1.84		2.33		2.24
92	85																								
93	86	**DIOXINS AND FURANS (ng/L)**																							
94	87	**Method 8290**																							
95	88	2,3,7,8-TCDF	0.0057	U	0.0017	U	0.0023	U	0.0038	U	NA		NA		0.0017	U	0.0019	U	0.0019	U	0.0035	U	0.0011	U	NA
96	89	Total TCDF	**0.0110**		0.0012-0.0034	U	0.0010-0.0058	U	0.0018-0.0064	U	NA		NA		0.0017	U	0.0019	U	0.0019	U	**0.0024**		0.0011	U	NA
97	90	2,3,7,8-TCDD	0.0054	U	0.0028	U	0.0029	U	0.0053	U	NA		NA		0.0022	U	0.0050	U	0.0034	U	0.0057	U	0.0044	U	NA
98	91	Total TCDD	0.0037-0.0087	U	0.0015-0.0049	U	0.0015-0.0050	U	0.0024-0.0087	U	NA		NA		0.0022	U	0.0050	U	**0.0016**		0.0057	U	0.0044	U	NA
99	92	1,2,3,7,8-PeCDF	0.0029	U	0.0032	U	0.0051	U	0.0031	U	NA		NA		0.0019	U	0.0035	U	0.0020	U	0.0049	U	0.0021	U	NA
100	93	2,3,4,7,8-PeCDF	0.0035	U	0.0031	U	0.0024	U	0.0046	U	NA		NA		0.0023	U	0.0037	U	0.0027	U	0.0042	U	0.0020	U	NA
101	94	Total PeCDF	0.0029-0.0064	U	0.0013-0.0047	U	0.0036-0.0067	U	**0.0022**		NA		NA		0.0021	U	0.0036	U	0.0024	U	0.0046	U	0.0021	U	NA
102	95	1,2,3,7,8-PeCDD	0.0080	U	0.0088	U	0.0048	U	0.0068	U	NA		NA		0.0041	U	0.0046	U	0.0022	U	0.0095	U	0.0027	U	NA
103	96	Total PeCDD	0.0057-0.016	U	0.0033-0.010	U	0.0027-0.010	U	0.0039-0.012	U	NA		NA		0.0041	U	0.0046	U	0.0022	U	0.0095	U	0.0027	U	NA
104	97	1,2,3,4,7,8-HxCDF	0.0054	U	0.0025	U	0.0048	U	0.0017	U	NA		NA		**0.0018**		0.0039	U	0.0018	U	0.0059	U	0.0024	U	NA
105	98	1,2,3,6,7,8-HxCDF	0.0042	U	0.0042	U	0.0020	U	0.0035	U	NA		NA		0.0025	U	0.0036	U	0.0180	U	0.0024	U	**0.0015**		NA
106	99	2,3,4,6,7,8-HxCDF	0.0052	U	0.0050	U	0.0038	U	0.0036	U	NA		NA		0.0041	U	0.0066	U	**0.0031**		0.0044	U	**0.0028**		NA
107	100	1,2,3,7,8,9-HxCDF	0.0044	U	0.0040	U	0.0023	U	0.0026	U	NA		NA		0.0037	U	0.0032	U	0.0025	U	0.0056	U	0.0030	U	NA
108	101	Total HxCDF	0.0052	U	0.0022-0.0063	U	0.0018-0.0071	U	0.0036	U	NA		NA		0.0072	U	**0.0031**		**0.0047**		0.0046	U	**0.0130**		NA
109	102	1,2,3,4,7,8-HxCDD	0.0100	U	0.0058	U	0.0046	U	0.0072	U	NA		NA		0.0047	U	0.0032	U	0.0017	U	0.0085	U	0.0027	U	NA
110	103	1,2,3,6,7,8-HxCDD	0.0100	U	0.0084	U	0.0068	U	0.0051	U	NA		NA		0.0039	U	0.0046	U	0.0015	U	0.0071	U	0.0031	U	NA
111	104	1,2,3,7,8,9-HxCDD	0.0080	U	0.0073	U	0.0044	U	0.0041	U	NA		NA		0.0042	U	0.0037	U	0.0027	U	0.0041	U	0.0015	U	NA
112	105	Total HxCDD	0.0047-0.014	U	0.0031-0.011	U	0.0025-0.011	U	0.0028-0.015	U	NA		NA		0.0043	U	0.0038	U	0.0020	U	0.0066	U	0.0024	U	NA
113	106	1,2,3,4,6,7,8-HpCDF	0.0080	U	**0.0050**		**0.0031**		0.0021	U	NA		NA		0.0037	U	0.0180	U	0.0033	U	0.0023	U	**0.0018**		NA
114	107	1,2,3,4,7,8,9-HpCDF	0.0089	U	0.0190	U	0.0063	U	0.0035	U	NA		NA		0.0055	U	0.0077	U	0.0039	U	0.0039	U	0.0023	U	NA
115	108	Total HpCDF	0.0042-0.015	U	**0.0050**		**0.0110**		0.0011-0.0052	U	NA		NA		0.0046	U	0.0129	U	**0.0055**		0.0031	U	**0.0120**		NA
116	109	1,2,3,4,6,7,8-HpCDD	0.0280	U	0.0250	U	**0.0089**		**0.0100**		NA		NA		0.0067	U	**0.0580**		**0.0067**		**0.0120**		**0.0070**		NA
117	110	Total HpCDD	**0.0410**		0.0250	U	**0.0089**		**0.0100**		NA		NA		0.0067	U	**0.0058**		**0.0150**		**0.0250**		**0.0094**		NA
118	111	OCDF	**0.0320**		**0.0300**		**0.0160**		0.0075	U	NA		NA		0.0110	U	**0.0074**		0.0110	U	**0.0180**		**0.0056**		NA
119	112	OCDD	**0.2500**		**0.2300**		**0.0840**		0.0420	U	NA		NA		0.0210	U	**0.0490**		**0.0580**		**0.1600**		0.0530	U	NA
120	113																								
121	114	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
122	115																								

BZTO104(e)021741

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA
1																													
2																													
3			J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1
4			BC27K		9912050-03A		BH96R		BR64D		CB49G		CL03H		CT55F		DE68I		DM52B		DW48C		ED23C		EM85D		ES04F		EZ03K
5			12/8/99		12/8/1999 (d)		2/16/00		5/24/00		8/29/00		11/10/00		2/14/01		6/5/01		8/14/01		11/29/01		2/26/02		6/26/02		08/28/02		11/12/02
87	**FIELD PARAMETERS**																												
88	pH (avg)		6.57		NM		6.59		6.38		6.58		5.27		6.17		6.64		6.85		6.60		6.42		6.52		6.79		6.4
89	Temperature (° C) (avg)		12.4		NM		14.3		14.8		15.6		14.4		14.3		13.6		15.8		14.6		13.6		15.4		15.7		15.6
90	Conductivity (um/hos)		245		NM		272		291		248		212		202		226		278		241		284		224		241		232
91	Dissolved oxygen (mg/L) (avg)		2.78		NM		1.57		1.74		1.62		1.09		0.57		1.51		1.44		3.88		6.41		4.98		1.34		3.21
92																													
93	**DIOXINS AND FURANS (ng/L)**																												
94	**Method 8290**																												
95	2,3,7,8-TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	Total TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	2,3,7,8-TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	Total TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	1,2,3,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	2,3,4,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	Total PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	1,2,3,7,8-PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	Total PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	1,2,3,4,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	1,2,3,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	2,3,4,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	1,2,3,7,8,9-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	Total HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	1,2,3,4,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	1,2,3,6,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	1,2,3,7,8,9-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	Total HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	1,2,3,4,7,8,9-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	Total HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	Total HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	OCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	OCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																													
121	**ETHANOL (mg/L)**		NA		10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
122																													

BZTO104(e)021742

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR
1																		
2																		
3			J1		J1		J1		J1		J1		J1		J1		J1	
4			FF76J		FL58I		FU31A		FY64H		0402105-01		0408019-04		0502102-02		P5F0342-04	
5			2/12/03		5/8/03		8/27/03		10/21/03		2/20/04		8/03/04		2/23/05		6/7/05	
87	**FIELD PARAMETERS**																	
88	pH (avg)		6.9		6.6		6.46		6.80		6.23		7.68		NM		7.02	
89	Temperature (° C) (avg)		13.7		13.7		15.8		17.8		14		17.1		6.71		15.6	
90	Conductivity (um/hos)		474		223		343		255		324		551		15.2		257	
91	Dissolved oxygen (mg/L) (avg)		0		3.1		2.23		1.65		1.21		NM		233		2.08	
92																		
93	**DIOXINS AND FURANS (ng/L)**																	
94	**Method 8290**																	
95	2,3,7,8-TCDF		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD		NA		NA		NA		NA		NA		NA		NA		NA	
120																		
121	**ETHANOL (mg/L)**		NA		NA		NA		NA		NA		NA		NA		NA	
122																		

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1																									
2					Dup of J1								Dup of J1												
3			J1		J1D		J1		J1		J1		J4		J1		J1		J1		J1		J1		J1
4			S177H		S177I		T176P		U235J		V224O		V224K		W371N		Y314I		Z225O		Z960C		AH49C		AU22H
5			4/2/97		4/2/97		7/16/97		10/22/97		1/29/98		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/20/99
123	116	**PAHs (µg/L)**																							
124	117	**EPA Method SW8270 SIM**																							
125	118	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126	119	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127	120	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128	121	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129	122	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130	123	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131	124	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

BZTO104(e)021744

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA
1																													
2																													
3			J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1
4			BC27K		9912050-03A		BH96R		BR64D		CB49G		CL03H		CT55F		DE68I		DM52B		DW48C		ED23C		EM85D		ES04F		EZ03K
5			12/8/99		12/8/1999 (d)		2/16/00		5/24/00		8/29/00		11/10/00		2/14/01		6/5/01		8/14/01		11/29/01		2/26/02		6/26/02		08/28/02		11/12/02
123	**PAHs (µg/L)**																												
124	**EPA Method SW8270 SIM**																												
125	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127	Acenaphthylene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128	Acenaphthene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129	Fluorene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130	Anthracene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR
1																		
2																		
3			J1		J1		J1		J1		J1		J1		J1		J1	
4			FF76J		FL58I		FU31A		FY64H		0402105-01		0408019-04		0502102-02		P5F0342-04	
5			2/12/03		5/8/03		8/27/03		10/21/03		2/20/04		8/03/04		2/23/05		6/7/05	
123	**PAHs (µg/L)**																	
124	**EPA Method SW8270 SIM**																	
125	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene		NA		NA		NA		NA		NA		1.01	U	NA		NA	
128	Acenaphthene		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene		NA		NA		NA		NA		NA		1.01	U	NA		NA	
131	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2													Dup of K								Dup of K							
3			K		K		K		K		K		W		K		K		K		Z		K		K		K	
4			S177A		T176U		U235X		V208E		W391J		W391K		Y314L		Z225U		Z960W		Z960V		AH27C		BB82B		BH75J	
5			4/1/97		7/16/97		10/23/97		1/28/98		5/19/98		5/19/98		8/17/98		11/13/98		2/16/99		2/16/99		5/17/99		12/6/99		2/15/00	
6																												
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	2.0	UJ	2.0	U	2.0	U	2.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
20	14	4-Methylphenol	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
21	15	Isophorone	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
22	16	2,4-Dimethylphenol	3.0	UJ	3.0	U	3.0	U	3.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
23	17	Benzoic Acid	10	UJ	10	U	10	U	10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
24	18	Naphthalene	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
25	19	2-Methylnaphthalene	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
26	20	2,4,6-Trichlorophenol	5.0	UJ	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
27	21	2,4,5-Trichlorophenol	5.0	UJ	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
28	22	Acenaphthene	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
29	23	Dibenzofuran	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
30	24	Fluorene	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
31	25	Pentachlorophenol	5.0	UJ	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	3.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA				NA		NA	
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	51	**Method OR-DEQ**																										
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		K		K		K		K		K		K		K		K		K		K		K		K		K		K	
4		BR55O		CB49K		CK77L		CT37O		DE68D		DM52K		DW29I		ED16H		EM75F		ER92B		EZ03J		FF88G		FL41C		FU45B	
5		5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03		5/7/03		8/28/03	
6																													
7	**CHLORINATED PHENOLS (µg/L)**																												
8	**EPA Method SW8040**																												
9	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																													
17	**SEMIVOLATILES (µg/L)**																												
18	**EPA Method SW8270**																												
19	Phenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
20	4-Methylphenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
21	Isophorone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
22	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
23	Benzoic Acid	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
24	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
25	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
26	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
27	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
28	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
29	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
30	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
31	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
32	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
33																													
34	**VOLATILES (µg/L)**																												
35	**EPA Method SW8260**																												
36	Acetone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
37	Carbon Disulfide	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
38	2-Butanone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
39	Benzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
40	Bromoform	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
41	Toluene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
42	Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
43	Styrene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
44	m,p-Xylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
45	o-Xylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
46	1,3,5-Trimethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
47	1,2,4-Trimethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
48	Isopropylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
49	n-Propylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
50	tert-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
51	sec-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
52	4-Isopropyltoluene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
53	n-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
54	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																													
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
58	**Method OR-DEQ**																												
59	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1											
2											
3		K		K		K		K		K	
4		FY64G		0402098-01		0406060-01		0408020-02		0411052-05	
5		10/21/03		2/19/04		6/9/04		8/03/04		11/9/04	
6											
7	**CHLORINATED PHENOLS (µg/L)**										
8	**EPA Method SW8040**										
9	Pentachlorophenol	NA		NA		NA		NA		NA	
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16											
17	**SEMIVOLATILES (µg/L)**										
18	**EPA Method SW8270**										
19	Phenol	NA		NA		NA		NA		NA	
20	4-Methylphenol	NA		NA		NA		NA		NA	
21	Isophorone	NA		NA		NA		NA		NA	
22	2,4-Dimethylphenol	NA		NA		NA		NA		NA	
23	Benzoic Acid	NA		NA		NA		NA		NA	
24	Naphthalene	NA		NA		NA		NA		NA	
25	2-Methylnaphthalene	NA		NA		NA		NA		NA	
26	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
27	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
28	Acenaphthene	NA		NA		NA		NA		NA	
29	Dibenzofuran	NA		NA		NA		NA		NA	
30	Fluorene	NA		NA		NA		NA		NA	
31	Pentachlorophenol	NA		NA		NA		NA		NA	
32	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA	
33											
34	**VOLATILES (µg/L)**										
35	**EPA Method SW8260**										
36	Acetone	NA		NA		NA		NA		NA	
37	Carbon Disulfide	NA		NA		NA		NA		NA	
38	2-Butanone	NA		NA		NA		NA		NA	
39	Benzene	NA		0.4	U	0.3	U	0.3	U	0.3	U
40	Bromoform	NA		NA		NA		NA		NA	
41	Toluene	NA		1	U	1	U	1	U	1	U
42	Ethylbenzene	NA		1	U	1	U	1	U	1	U
43	Styrene	NA		NA		NA		NA		NA	
44	m,p-Xylene	NA		2	U	2	U	2	U	2	U
45	o-Xylene	NA		1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	NA		NA		NA		NA		NA	
47	1,2,4-Trimethylbenzene	NA		NA		NA		NA		NA	
48	Isopropylbenzene	NA		NA		NA		NA		NA	
49	n-Propylbenzene	NA		NA		NA		NA		NA	
50	tert-Butylbenzene	NA		NA		NA		NA		NA	
51	sec-Butylbenzene	NA		NA		NA		NA		NA	
52	4-Isopropyltoluene	NA		NA		NA		NA		NA	
53	n-Butylbenzene	NA		NA		NA		NA		NA	
54	Naphthalene	NA		NA		NA		NA		NA	
55	Methyl tert-butyl ether	1	U	NA		NA		NA		NA	
56											
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	**Method OR-DEQ**										
59	**TPH-Diesel**	NA		NA		NA		NA		NA	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA	
61	**TPH-Gasoline**	0.25	U	0.1	U	0.1	U	0.1	U	0.1	U
62											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2													Dup of K								Dup of K							
3			K		K		K		K		K		W		K		K		K		Z		K		K		K	
4			S177A		T176U		U235X		V208E		W391J		W391K		Y314L		Z225U		Z960W		Z960V		AH27C		BB82B		BH75J	
5			4/1/97		7/16/97		10/23/97		1/28/98		5/19/98		5/19/98		8/17/98		11/13/98		2/16/99		2/16/99		5/17/99		12/6/99		2/15/00	
63	56	**PRIORITY POLLUTANT**																										
64	57	**METALS (mg/L)**																										
65	58	Arsenic (7060)	0.001	U	**0.001**		0.05	U	0.05	U	**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	**0.004**		**0.010**	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.028**		**0.117**	
67	60	Copper (6010)	**0.006**		**0.008**		0.002	U	**0.013**		**0.005**		**0.005**		**0.003**		0.002	U	**0.007**		**0.006**		**0.004**		**0.011**		**0.042**	
68	61	Lead (7421)	0.001	U	0.001	U	0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.007**		**0.010**	
69	62	Nickel (6010)	**0.03**		**0.04**		**0.13**		**0.10**		**0.04**		0.03		**0.01**		**0.07**		**0.06**		**0.06**		**0.03**		**0.27**		**0.17**	
70	63	Zinc (6010)	**0.025**		**0.042**		**0.051**		**0.128**		**0.045**	J2	**0.045**	J2	**0.008**		**0.036**		**0.052**		**0.053**		0.020	U	**0.111**		**0.155**	
71	64																											
72	65	**MAJOR IONS AND CONVENTIONALS**																										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		**36.6**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		**8.47**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		**5.4**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		**5.50**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		**370**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**130**	J2	**650**		**370**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		K		K		K		K		K		K		K		K		K		K		K		K		K		K	
4		BR55O		CB49K		CK77L		CT37O		DE68D		DM52K		DW29I		ED16H		EM75F		ER92B		EZ03J		FF88G		FL41C		FU45B	
5		5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03		5/7/03		8/28/03	
63	**PRIORITY POLLUTANT**																												
64	**METALS (mg/L)**																												
65	Arsenic (7060)	0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	**0.001**		0.001	U	**0.001**		**0.002**		0.001	U	0.05	U	0.001	U	**0.001**		**0.002**	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.009**		0.005	U	0.005	U	0.005	U	0.005	U	**0.006**	
67	Copper (6010)	**0.002**		**0.004**		**0.004**	J2	**0.002**		0.002	U	**0.002**		**0.003**		**0.012**		**0.010**		**0.004**		**0.006**		**0.003**		**0.007**		**0.012**	
68	Lead (7421)	0.001	U	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		**0.003**		0.001	U	0.02	U	0.001	U	0.001	U	**0.005**	
69	Nickel (6010)	**0.01**		**0.01**		**0.03**		**0.03**		**0.02**		**0.03**		**0.05**		**0.03**		**0.08**		**0.02**		**0.05**		**0.1**		**0.04**		**0.04**	
70	Zinc (6010)	**0.014**		**0.006**		**0.009**		**0.009**		**0.006**		**0.007**		**0.013**		**0.029**		**0.040**		**0.009**		**0.01**		**0.059**		**0.05**	J	**0.029**	
71																													
72	**MAJOR IONS AND CONVENTIONALS**																												
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		**65.3**		**40.3**		**79.8**		NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		**16.0**		**13.7**		**18.2**		NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		**6.9**		**4.4**		**7.6**		NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		**11.2**		**8.24**		**12.2**		NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
81	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86																													

BZTO104(e)021751

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1											
2											
3		K		K		K		K		K	
4		FY64G		0402098-01		0406060-01		0408020-02		0411052-05	
5		10/21/03		2/19/04		6/9/04		8/03/04		11/9/04	
63	**PRIORITY POLLUTANT**										
64	**METALS (mg/L)**										
65	Arsenic (7060)	0.001	U	NA		NA		NA		NA	
66	Chromium (6010)	0.005	U	NA		NA		NA		NA	
67	Copper (6010)	**0.006**		NA		NA		NA		NA	
68	Lead (7421)	0.001	U	NA		NA		NA		NA	
69	Nickel (6010)	**0.03**		NA		NA		NA		NA	
70	Zinc (6010)	**0.014**		NA		NA		NA		NA	
71											
72	**MAJOR IONS AND CONVENTIONALS**										
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA		NA		NA	
81	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2													Dup of K								Dup of K							
3			K		K		K		K		K		W		K		K		K		Z		K		K		K	
4			S177A		T176U		U235X		V208E		W391J		W391K		Y314L		Z225U		Z960W		Z960V		AH27C		BB82B		BH75J	
5			4/1/97		7/16/97		10/23/97		1/28/98		5/19/98		5/19/98		8/17/98		11/13/98		2/16/99		2/16/99		5/17/99		12/6/99		2/15/00	
87	80	**FIELD PARAMETERS**																										
88	81	pH (avg)	5.70		5.88		5.68		5.22		5.14		5.15		5.37		5.23		4.89		4.87		4.86		4.91		5.40	
89	82	Temperature (° C) (avg)	12.0		17.4		16.8		12.7		13.9		13.8		17.6		15.2		12.1		11.9		14.1		14.7		11.9	
90	83	Conductivity (um/hos)	157		155		677		382		187		185		130		175		184		187		114		1790		259	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		3.50		3.50		2.23		2.20		2.79		2.79		2.38		2.90		5.01	
92	85																											
93	86	**DIOXINS AND FURANS (ng/L)**																										
94	87	**Method 8290**																										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		K		K		K		K		K		K		K		K		K		K		K		K		K		K	
4		BR55O		CB49K		CK77L		CT37O		DE68D		DM52K		DW29I		ED16H		EM75F		ER92B		EZ03J		FF88G		FL41C		FU45B	
5		5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03		5/7/03		8/28/03	
87	**FIELD PARAMETERS**																												
88	pH (avg)	5.34		5.63		5.05		6.09		6.22		6.92		5.98		5.05		5.83		5.77		6.21		6.35		6.05		6.25	
89	Temperature (° C) (avg)	14.0		16.0		15.3		13.0		13.6		15.4		14.6		11.1		15.2		15.8		16		13.9		13.3		15.9	
90	Conductivity (um/hos)	157		161		323		694		531		350		645		78		199		157		325		835		143		193	
91	Dissolved oxygen (mg/L) (avg)	1.99		1.78		2.36		3.15		1.80		3.01		3.35		5.92		4.91		0.91		0.66		0		4.61		2.26	
92																													
93	**DIOXINS AND FURANS (ng/L)**																												
94	**Method 8290**																												
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																													
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1											
2											
3		K		K		K		K		K	
4		FY64G		0402098-01		0406060-01		0408020-02		0411052-05	
5		10/21/03		2/19/04		6/9/04		8/03/04		11/9/04	
87	**FIELD PARAMETERS**										
88	pH (avg)	6.37		5.18		4.41		6.93		6.17	
89	Temperature (° C) (avg)	17.3		11.4		15.2		16		16.1	
90	Conductivity (um/hos)	250		109		197		292		269	
91	Dissolved oxygen (mg/L) (avg)	2.57		6.06		2.12		NM		1.55	
92											
93	**DIOXINS AND FURANS (ng/L)**										
94	**Method 8290**										
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA	
120											
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA	
122											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2													Dup of K								Dup of K							
3			K		K		K		K		K		W		K		K		K		Z		K		K		K	
4			S177A		T176U		U235X		V208E		W391J		W391K		Y314L		Z225U		Z960W		Z960V		AH27C		BB82B		BH75J	
5			4/1/97		7/16/97		10/23/97		1/28/98		5/19/98		5/19/98		8/17/98		11/13/98		2/16/99		2/16/99		5/17/99		12/6/99		2/15/00	
123		**PAHs (µg/L)**																										
124		**EPA Method SW8270 SIM**																										
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		K		K		K		K		K		K		K		K		K		K		K		K		K		K	
4		BR55O		CB49K		CK77L		CT37O		DE68D		DM52K		DW29I		ED16H		EM75F		ER92B		EZ03J		FF88G		FL41C		FU45B	
5		5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03		5/7/03		8/28/03	
123	**PAHs (µg/L)**																												
124	**EPA Method SW8270 SIM**																												
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1											
2											
3		K		K		K		K		K	
4		FY64G		0402098-01		0406060-01		0408020-02		0411052-05	
5		10/21/03		2/19/04		6/9/04		8/03/04		11/9/04	
123	**PAHs (µg/L)**										
124	**EPA Method SW8270 SIM**										
125	Naphthalene	0.1	U	NA		NA		NA		NA	
126	2-Methylnaphthalene	0.1	U	NA		NA		NA		NA	
127	Acenaphthylene	0.1	U	NA		NA		NA		NA	
128	Acenaphthene	0.1	U	NA		NA		NA		NA	
129	Fluorene	0.1	U	NA		NA		NA		NA	
130	Anthracene	0.1	U	NA		NA				NA	
131	Dibenzofuran	0.1	U	NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			L		L		L		L		L		L		L		L		L		L		L		L		L	
4			S167H		T176A		U258B		V232H		W371E		Y336F		Z225F		Z960B		AH49E		AU22C		BC27A		BH75I		BR64H	
5			4/1/97		7/15/97		10/23/97		1/30/98		5/18/98		8/18/98		11/13/98		2/16/99		5/18/99		9/20/99		12/7/99		2/15/00		5/24/00	
6																												
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	**2.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	51	**Method OR-DEQ**																										
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																											

BZTO104(e)021759

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH
1							
2							
3		L		L		L	
4		CT37D		ED16E		FF88K	
5		2/12/01		2/25/02		2/13/03	
6							
7	**CHLORINATED PHENOLS (µg/L)**						
8	**EPA Method SW8040**						
9	Pentachlorophenol	0.25	U	0.25	U	0.26	U
10	2,4,6-Trichlorophenol	NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA	
16							
17	**SEMIVOLATILES (µg/L)**						
18	**EPA Method SW8270**						
19	Phenol	2.0	U	2.0	U	2	U
20	4-Methylphenol	1.0	U	1.0	U	1	U
21	Isophorone	1.0	U	1.0	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.1	U
23	Benzoic Acid	10	U	50	U	51	U
24	Naphthalene	1.0	U	1.0	U	1	U
25	2-Methylnaphthalene	1.0	U	1.0	U	1	U
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.1	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.1	U
28	Acenaphthene	1.0	U	1.0	U	1	U
29	Dibenzofuran	1.0	U	1.0	U	1	U
30	Fluorene	1.0	U	1.0	U	1	U
31	Pentachlorophenol	5.0	U	5.0	U	5.1	U
32	bis(2-Ethylhexyl)phthalate	1.0	U	4.0	U	1	U
33							
34	**VOLATILES (µg/L)**						
35	**EPA Method SW8260**						
36	Acetone	6.1	U	5.0	U	5	U
37	Carbon Disulfide	1.0	U	1.0	U	1	U
38	2-Butanone	5.0	U	5.0	U	5	U
39	Benzene	1.0	U	1.0	U	1	U
40	Bromoform	1.0	U	1.0	U	1	U
41	Toluene	1.0	U	1.0	U	1	U
42	Ethylbenzene	1.0	U	1.0	U	1	U
43	Styrene	1.0	U	1.0	U	1	U
44	m,p-Xylene	1.0	U	1.0	U	1	U
45	o-Xylene	1.0	U	1.0	U	1	U
46	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1	U
47	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1	U
48	Isopropylbenzene	1.0	U	1.0	U	1	U
49	n-Propylbenzene	1.0	U	1.0	U	1	U
50	tert-Butylbenzene	1.0	U	1.0	U	1	U
51	sec-Butylbenzene	1.0	U	1.0	U	1	U
52	4-Isopropyltoluene	1.0	U	1.0	U	1	U
53	n-Butylbenzene	1.0	U	1.0	U	1	U
54	Naphthalene	5.0	U	5.0	U	5	U
55	Methyl tert-butyl ether	NA		NA		NA	
56							
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**						
58	**Method OR-DEQ**						
59	**TPH-Diesel**	0.25	U	0.25	U	0.25	U
60	**TPH-D Motor Oil**	NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA	
62							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			L		L		L		L		L		L		L		L		L		L		L		L		L	
4			S167H		T176A		U258B		V232H		W371E		Y336F		Z225F		Z960B		AH49E		AU22C		BC27A		BH75I		BR64H	
5			4/1/97		7/15/97		10/23/97		1/30/98		5/18/98		8/18/98		11/13/98		2/16/99		5/18/99		9/20/99		12/7/99		2/15/00		5/24/00	
63	56	**PRIORITY POLLUTANT**																										
64	57	**METALS (mg/L)**																										
65	58	Arsenic (7060)	0.001	U	0.001	U	0.05	U	0.05	U	0.001	U	0.001	U	**0.007**		0.001	U	0.001	U	**0.003**		0.001	U	**0.001**		0.001	U
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.009**		0.005	U
67	60	Copper (6010)	**0.003**		**0.003**		**0.003**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.008**		**0.003**		**0.002**	
68	61	Lead (7421)	**0.001**		0.001	U	0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.002**		0.001	U	0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.01**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	**0.004**		**0.004**	J2	**0.005**		**0.005**		**0.005**	J2	**0.005**		**0.004**		**0.051**		**0.004**		**0.008**		0.012	U	0.006	U	0.006	U
71	64																											
72	65	**MAJOR IONS AND CONVENTIONALS**																										
73	66	Calcium (mg/L) (6010)	**2.77**		**3.56**		**4.93**		**3.76**		NA		NA		NA		**3.24**		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**0.99**		**1.56**		**1.98**		**1.35**		NA		NA		NA		**1.18**		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**1.2**		**0.8**		**1.6**		**1.1**		NA		NA		NA		**1.0**		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**4.58**		**5.81**		**8.14**		**3.34**		NA		NA		NA		**3.61**		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**16**		**30**		**28**		**21**		NA		NA		NA		**16**		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**16**		**30**		**28**		**21**		NA		NA		NA		**16**		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**100**	J2	**57**		**60**	J2	46		74		130		**36**		**57**		**92**		**77**		**65**		**56**	
81	74	Chloride (mg/L) (EPA 325.2)	1.0	U	**3.8**		**1.9**		**1.0**		1.0		1.0	U	1.7		1.0	U	**1.5**		**1.5**		**3.4**		**2.0**		**1.8**	
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.34**	J	**0.01**		**0.84**		**0.31**	J2	NA		NA		NA		**0.24**	J	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	0.010	U	0.010	U	0.010	UJ	NA		NA		NA		0.010	UJ	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.34**	J	**0.01**		**0.84**		**0.31**	J2	NA		NA		NA		**0.24**	J	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	**2.7**	J	**4.8**		**4.0**		**2.8**		NA		NA		NA		**3.6**		NA		NA		NA		NA		NA	
86	79																											

BZTO104(e)021761

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH
1							
2							
3		L		L		L	
4		CT37D		ED16E		FF88K	
5		2/12/01		2/25/02		2/13/03	
63	**PRIORITY POLLUTANT**						
64	**METALS (mg/L)**						
65	Arsenic (7060)	0.001	U	0.001	U	**0.001**	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U
67	Copper (6010)	0.002	U	0.002	U	**0.004**	
68	Lead (7421)	0.001	U	0.001	U	**0.001**	
69	Nickel (6010)	0.01	U	0.01	U	0.01	U
70	Zinc (6010)	0.006	U	0.006	U	**0.009**	
71							
72	**MAJOR IONS AND CONVENTIONALS**						
73	Calcium (mg/L) (6010)	**11.5**		**3.20**		**2.61**	
74	Magnesium (mg/L) (6010)	**4.04**		**1.34**		**1.19**	
75	Potassium (mg/L) (6010)	**1.4**		**0.8**		**0.7**	
76	Sodium (mg/L) (6010)	**8.26**		**3.29**		**2.5**	
77	Alkalinity (mg/L CaCO3) (SM 2320)	**64**		**21**		**16**	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1	U
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**64**		**21**		**16**	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**120**		**57**		**66**	
81	Chloride (mg/L) (EPA 325.2)	**1.4**		**2.4**		**1**	
82	N-Nitrate (mg-N/L) (Calculated)	**0.47**		**0.36**		**0.45**	
83	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	0.010	U	0.01	U
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.47**	J	**0.36**		**0.45**	
85	Sulfate (mg/L) (EPA 375.2)	**4.4**		**3.6**		2.5	U
86							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			L		L		L		L		L		L		L		L		L		L		L		L		L	
4			S167H		T176A		U258B		V232H		W371E		Y336F		Z225F		Z960B		AH49E		AU22C		BC27A		BH75I		BR64H	
5			4/1/97		7/15/97		10/23/97		1/30/98		5/18/98		8/18/98		11/13/98		2/16/99		5/18/99		9/20/99		12/7/99		2/15/00		5/24/00	
87	80	**FIELD PARAMETERS**																										
88	81	pH (avg)	6.02		6.18		6.24		7.10		5.49		5.87		5.84		6.26		5.54		5.41		5.72		6.16		5.94	
89	82	Temperature (° C) (avg)	9.8		15.5		16.4		9.6		13.1		15.7		13.8		8.9		13.1		15.5		13.0		10.8		13.1	
90	83	Conductivity (um/hos)	41		68		81		55		60		95		89		39		42		101		75		50		63	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		4.51		2.60		1.87		5.67		2.93		2.16		4.48		4.25		3.14	
92	85																											
93	86	**DIOXINS AND FURANS (ng/L)**																										
94	87	**Method 8290**																										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH
1							
2							
3		L		L		L	
4		CT37D		ED16E		FF88K	
5		2/12/01		2/25/02		2/13/03	
87	**FIELD PARAMETERS**						
88	pH (avg)	6.07		5.89		7.12	
89	Temperature (° C) (avg)	13.2		8.5		11.2	
90	Conductivity (um/hos)	104		37		41	
91	Dissolved oxygen (mg/L) (avg)	2.56		7.55		0	
92							
93	**DIOXINS AND FURANS (ng/L)**						
94	**Method 8290**						
95	2,3,7,8-TCDF	NA		NA		NA	
96	Total TCDF	NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA	
98	Total TCDD	NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA	
101	Total PeCDF	NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA	
103	Total PeCDD	NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA	
108	Total HxCDF	NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA	
112	Total HxCDD	NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA	
115	Total HpCDF	NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA	
117	Total HpCDD	NA		NA		NA	
118	OCDF	NA		NA		NA	
119	OCDD	NA		NA		NA	
120							
121	**ETHANOL (mg/L)**	NA		NA		NA	
122							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			L		L		L		L		L		L		L		L		L		L		L		L		L	
4			S167H		T176A		U258B		V232H		W371E		Y336F		Z225F		Z960B		AH49E		AU22C		BC27A		BH75I		BR64H	
5			4/1/97		7/15/97		10/23/97		1/30/98		5/18/98		8/18/98		11/13/98		2/16/99		5/18/99		9/20/99		12/7/99		2/15/00		5/24/00	
123		**PAHs (µg/L)**																										
124		**EPA Method SW8270 SIM**																										
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH
1							
2							
3		L		L		L	
4		CT37D		ED16E		FF88K	
5		2/12/01		2/25/02		2/13/03	
123	**PAHs (µg/L)**						
124	**EPA Method SW8270 SIM**						
125	Naphthalene	NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA	
127	Acenaphthylene	NA		NA		NA	
128	Acenaphthene	NA		NA		NA	
129	Fluorene	NA		NA		NA	
130	Anthracene	NA		NA		NA	
131	Dibenzofuran	NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
3			LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S
4			S167K		T176E		U235T		V208F		W371G		Y336I		Z225E		Z960A		AH27G		AU45J		BB82C		BH75G		BR55G		CB49C
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/19/98		11/13/98		2/17/99		5/17/99		9/23/99		12/6/99		2/15/00		5/23/00		8/28/00
7	1	**CHLORINATED PHENOLS (µg/L)**																											
8	2	**EPA Method SW8040**																											
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
16	10																												
17	11	**SEMIVOLATILES (µg/L)**																											
18	12	**EPA Method SW8270**																											
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
33	27																												
34	28	**VOLATILES (µg/L)**																											
35	29	**EPA Method SW8260**																											
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																												
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																											
58	51	**Method OR-DEQ**																											
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
3			LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S	
4			CK77D		CT37B		DE68F		DM52E		DW48M		ED16J		EM75G		ER92C		EY88E		FF88M		FL41F		FU31C		FY64J		0402098-02	
5			11/7/00		2/12/01		6/4/01		8/15/01		11/29/01		2/25/02		6/25/02		08/26/02		11/11/02		2/13/03		5/7/03		8/27/03		10/21/03		2/19/04	
7	**CHLORINATED PHENOLS (µg/L)**																													
8	**EPA Method SW8040**																													
9	Pentachlorophenol	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.28	U	0.25	U	0.25	U	0.26	U	0.54	U	0.5	U	NA	
10	2,4,6-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																														
17	**SEMIVOLATILES (µg/L)**																													
18	**EPA Method SW8270**																													
19	Phenol	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.2	U	2	U	2	U	2	U	2.2	U	2	U	NA	
20	4-Methylphenol	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.1	U	1	U	NA	
21	Isophorone	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.1	U	1	U	NA	
22	2,4-Dimethylphenol	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.3	U	3	U	3	U	3.1	U	3.3	U	3	U	NA	
23	Benzoic Acid	U	10	U	10	U	10	U	10	U	30	U	50	U	50	U	56	U	50	U	50	U	51	U	54	U	10	U	NA	
24	Naphthalene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.1	U	1	U	NA	
25	2-Methylnaphthalene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.1	U	1	U	NA	
26	2,4,6-Trichlorophenol	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5	U	5	U	5.1	U	5.4	U	5	U	NA	
27	2,4,5-Trichlorophenol	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5	U	5	U	5.1	U	5.4	U	5	U	NA	
28	Acenaphthene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.1	U	1	U	NA	
29	Dibenzofuran	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.1	U	1	U	NA	
30	Fluorene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.1	U	1	U	NA	
31	Pentachlorophenol	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5	U	5	U	5.1	U	5.4	U	5	U	NA	
32	bis(2-Ethylhexyl)phthalate	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	4.0	U	4.4	U	4	U	1	U	1	U	1.1	U	1	U	NA	
33																														
34	**VOLATILES (µg/L)**																													
35	**EPA Method SW8260**																													
36	Acetone	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U	NA	
37	Carbon Disulfide	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	NA	
38	2-Butanone	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U	NA	
39	Benzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	0.4	U
40	Bromoform	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	NA	
41	Toluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
43	Styrene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	NA	
44	m,p-Xylene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	2	U
45	o-Xylene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	NA	
47	1,2,4-Trimethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	NA	
48	Isopropylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	NA	
49	n-Propylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	NA	
50	tert-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	NA	
51	sec-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	NA	
52	4-Isopropyltoluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	NA	
53	n-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	NA	
54	Naphthalene	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U	NA	
55	Methyl tert-butyl ether		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1	U	NA	
56																														
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																													
58	**Method OR-DEQ**																													
59	**TPH-Diesel**	U	0.25	U	0.25	U	NA		NA		NA		0.25	U	NA		NA		NA		0.25	U	NA		NA		NA		NA	
60	**TPH-D Motor Oil**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.25	U	0.1	U
62																														

BZTO104(e)021768

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BG	BH	BI	BJ	BK	BL	BM	BN
1									
2									
3		LW1S		LW1S		LW1S		LW1S	
4		0406060-02		0408020-01		0411052-06		0502099-01	
5		6/9/04		8/03/04		11/9/04		2/22/05	
6									
7	**CHLORINATED PHENOLS (µg/L)**								
8	**EPA Method SW8040**								
9	Pentachlorophenol	NA		NA		NA		NA	
10	2,4,6-Trichlorophenol	NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA	
16									
17	**SEMIVOLATILES (µg/L)**								
18	**EPA Method SW8270**								
19	Phenol	NA		NA		NA		1.97	U
20	4-Methylphenol	NA		NA		NA		9.86	U
21	Isophorone	NA		NA		NA		0.986	U
22	2,4-Dimethylphenol	NA		NA		NA		2.96	U
23	Benzoic Acid	NA		NA		NA		19.7	U
24	Naphthalene	NA		NA		NA		0.986	U
25	2-Methylnaphthalene	NA		NA		NA		0.986	U
26	2,4,6-Trichlorophenol	NA		NA		NA		4.93	U
27	2,4,5-Trichlorophenol	NA		NA		NA		4.93	U
28	Acenaphthene	NA		NA		NA		0.986	U
29	Dibenzofuran	NA		NA		NA		0.986	U
30	Fluorene	NA		NA		NA		0.986	U
31	Pentachlorophenol	NA		NA		NA		4.93	U
32	bis(2-Ethylhexyl)phthalate	NA		NA		NA		0.986	U
33									
34	**VOLATILES (µg/L)**								
35	**EPA Method SW8260**								
36	Acetone	NA		NA		NA		50	U
37	Carbon Disulfide	NA		NA		NA		2	U
38	2-Butanone	NA		NA		NA		10	U
39	Benzene	0.3	U	0.3	U	0.3	U	0.3	U
40	Bromoform	NA		NA		NA		1	U
41	Toluene	1	U	1	U	1	U	1	U
42	Ethylbenzene	1	U	1	U	1	U	1	U
43	Styrene	NA		NA		NA		1	U
44	m,p-Xylene	2	U	2	U	2	U	2	U
45	o-Xylene	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	NA		NA		NA		1	U
47	1,2,4-Trimethylbenzene	NA		NA		NA		1	U
48	Isopropylbenzene	NA		NA		NA		1	U
49	n-Propylbenzene	NA		NA		NA		1	U
50	tert-Butylbenzene	NA		NA		NA		1	U
51	sec-Butylbenzene	NA		NA		NA		1	U
52	4-Isopropyltoluene	NA		NA		NA		1	U
53	n-Butylbenzene	NA		NA		NA		1	U
54	Naphthalene	NA		NA		NA		1	U
55	Methyl tert-butyl ether	NA		NA		NA		1	U
56									
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**								
58	**Method OR-DEQ**								
59	**TPH-Diesel**	NA		NA		NA		0.246	U
60	**TPH-D Motor Oil**	NA		NA		NA		0.608	U
61	**TPH-Gasoline**	0.1	U	0.1	U	0.1	U	0.1	U
62									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S
4			S167K		T176E		U235T		V208F		W371G		Y336I		Z225E		Z960A		AH27G		AU45J		BB82C		BH75G		BR55G		CB49C
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/19/98		11/13/98		2/17/99		5/17/99		9/23/99		12/6/99		2/15/00		5/23/00		8/28/00
63	56	**PRIORITY POLLUTANT**																											
64	57	**METALS (mg/L)**																											
65	58	Arsenic (7060)	**0.008**		**0.008**		0.05	U	0.05	U	**0.011**		**0.011**		**0.012**		**0.010**		**0.008**		**0.014**		**0.011**		**0.013**		**0.010**		**0.010**
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
67	60	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002
68	61	Lead (7421)	0.001	U	0.001	U	0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
70	63	Zinc (6010)	0.004	U	**0.005**	J2	**0.011**		0.004	U	**0.008**	J2	**0.012**		0.004	U	**0.010**	J	0.012	U	**0.005**		0.006	U	**0.007**		0.006	U	0.006
71	64																												
72	65	**MAJOR IONS AND CONVENTIONALS**																											
73	66	Calcium (mg/L) (6010)	**16.7**		**19.5**		**20.2**		**20.1**		NA		NA		NA		**18.4**		NA		NA		NA		NA		NA		NA
74	67	Magnesium (mg/L) (6010)	**5.95**		**6.73**		**7.53**		**7.23**		NA		NA		NA		**6.09**		NA		NA		NA		NA		NA		NA
75	68	Potassium (mg/L) (6010)	**2.9**		**3.3**		**2.6**		**2.4**		NA		NA		NA		**2.8**		NA		NA		NA		NA		NA		NA
76	69	Sodium (mg/L) (6010)	**7.70**		**9.08**		**7.22**		**8.08**		NA		NA		NA		**8.54**		NA		NA		NA		NA		NA		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**80**		**77**		**88**		**94**		NA		NA		NA		**87**		NA		NA		NA		NA		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA		NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**80**		**77**		**88**		**94**		NA		NA		NA		**87**		NA		NA		NA		NA		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**140**	J2	**130**		**140**		110		99		140		**120**		**130**		**140**		**150**		**140**		**130**		**160**
81	74	Chloride (mg/L) (EPA 325.2)	**2.1**	J	**2.3**		**2.5**		**2.4**		2.3		1.0	U	1.8		**1.2**		**1.2**		**2.4**		**3.7**		**2.9**		**3.4**		**3.5**
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.58**	J	**1.3**		**0.11**		**0.48**		NA		NA		NA		**0.12**		NA		NA		NA		NA		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	0.010	U	0.010	U	0.010	U	NA		NA		NA		0.010	U	NA		NA		NA		NA		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.58**	J	**1.3**		**0.11**		**0.48**		NA		NA		NA		**0.12**		NA		NA		NA		NA		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	**9.3**	J	**13**		**5.5**		**5.1**		NA		NA		NA		**7.2**		NA		NA		NA		NA		NA		NA
86	79																												

BZTO104(e)021770

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
1																														
2																														
3			LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S	
4			CK77D		CT37B		DE68F		DM52E		DW48M		ED16J		EM75G		ER92C		EY88E		FF88M		FL41F		FU31C		FY64J		0402098-02	
5			11/7/00		2/12/01		6/4/01		8/15/01		11/29/01		2/25/02		6/25/02		08/26/02		11/11/02		2/13/03		5/7/03		8/27/03		10/21/03		2/19/04	
63	**PRIORITY POLLUTANT**																													
64	**METALS (mg/L)**																													
65	Arsenic (7060)		**0.011**		**0.010**		**0.009**		**0.011**		**0.012**		**0.023**		**0.010**		**0.011**		0.05	U	**0.014**		**0.007**		**0.009**		**0.008**		NA	
66	Chromium (6010)	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.007**		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	NA	
67	Copper (6010)	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.009**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.003**		NA	
68	Lead (7421)	U	**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	**0.004**		0.001	U	0.001	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	NA	
69	Nickel (6010)	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	NA	
70	Zinc (6010)	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	**0.030**		0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	**0.007**		NA	
71																														
72	**MAJOR IONS AND CONVENTIONALS**																													
73	Calcium (mg/L) (6010)		NA		**25.5**		**28.4**		**25.8**		**27.3**		**30.4**		NA		NA		NA		**36.9**		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)		NA		**9.47**		**10.6**		**10.2**		**10.4**		**11.7**		NA		NA		NA		**13.6**		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)		NA		**2.0**		**2.4**		**2.2**		**2.4**		**3.4**		NA		NA		NA		**3.2**		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)		NA		**7.23**		**7.87**		**7.24**		**7.20**		**10.2**		NA		NA		NA		**9.8**		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		**120**		NA		NA		NA		**120**		NA		NA		NA		**150**		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		1	U	NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		**120**		NA		NA		NA		**120**		NA		NA		NA		**150**		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**170**		**170**		**180**		**160**		**170**		**160**		**200**		**210**		**210**		**180**		**190**		**190**		**200**			
81	Chloride (mg/L) (EPA 325.2)		**3.6**		**4.1**		**3.1**		**3.7**		**2.6**		**3.2**		**2.7**		**3.1**		**3**		**3.6**		**2.4**		**3**		**3.2**			
82	N-Nitrate (mg-N/L) (Calculated)		NA		**0.17**		NA		NA		NA		**0.91**		NA		NA		NA		**0.66**		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		0.010	U	NA		NA		NA		0.010	U	NA		NA		NA		0.01	U	NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		**0.17**	J	NA		NA		NA		**0.91**		NA		NA		NA		**0.66**		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)		NA		**6.8**		NA		NA		NA		**5.7**		NA		NA		NA		**4.2**		NA		NA		NA		NA	
86																														

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BG	BH	BI	BJ	BK	BL	BM	BN
1									
2									
3		LW1S		LW1S		LW1S		LW1S	
4		0406060-02		0408020-01		0411052-06		0502099-01	
5		6/9/04		8/03/04		11/9/04		2/22/05	
63	**PRIORITY POLLUTANT**								
64	**METALS (mg/L)**								
65	Arsenic (7060)	NA		NA		NA		**0.0132**	
66	Chromium (6010)	NA		NA		NA		**0.0104**	
67	Copper (6010)	NA		NA		NA		0.01	U
68	Lead (7421)	NA		NA		NA		**0.00119**	
69	Nickel (6010)	NA		NA		NA		0.005	U
70	Zinc (6010)	NA		NA		NA		**0.0124**	
71									
72	**MAJOR IONS AND CONVENTIONALS**								
73	Calcium (mg/L) (6010)	NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA		**202**	
81	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		**4.05**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA	
86									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S
4			S167K		T176E		U235T		V208F		W371G		Y336I		Z225E		Z960A		AH27G		AU45J		BB82C		BH75G		BR55G		CB49C
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/19/98		11/13/98		2/17/99		5/17/99		9/23/99		12/6/99		2/15/00		5/23/00		8/28/00
87	80	**FIELD PARAMETERS**																											
88	81	pH (avg)	6.72		6.83		6.94		6.60		6.32		6.51		6.48		6.84		5.72		6.88		6.24		6.73		6.57		6.49
89	82	Temperature (° C) (avg)	13.4		16.9		15.8		15.4		14.8		15.9		14.5		14.5		14.4		16.1		14.9		14.4		14.3		16.0
90	83	Conductivity (um/hos)	190		203		154		213		195		193		100		174		146		197		212		206		182		196
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		1.73		1.84		3.04		3.91		1.22		2.53		2.34		2.17		1.80
92	85																												
93	86	**DIOXINS AND FURANS (ng/L)**																											
94	87	**Method 8290**																											
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																													
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
122																													

BZTO104(e)021773

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
1																														
2																														
3			LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S	
4			CK77D		CT37B		DE68F		DM52E		DW48M		ED16J		EM75G		ER92C		EY88E		FF88M		FL41F		FU31C		FY64J		0402098-02	
5			11/7/00		2/12/01		6/4/01		8/15/01		11/29/01		2/25/02		6/25/02		08/26/02		11/11/02		2/13/03		5/7/03		8/27/03		10/21/03		2/19/04	
87	**FIELD PARAMETERS**																													
88	pH (avg)		5.21		6.56		6.75		6.94		6.71		6.22		6.57		6.61		6.62		6.94		6.88		6.86		6.77		5.92	
89	Temperature (° C) (avg)		15.2		14.9		14.6		15.8		15.4		14.3		16.1		16.3		16		16		14.9		16.8		18.3		15.7	
90	Conductivity (um/hos)		207		217		250		245		245		257		370		265		367		327		233		228		237		277	
91	Dissolved oxygen (mg/L) (avg)		1.86		1.90		1.99		1.09		3.75		4.77		5.34		0.77		3.86		0		3.28		2.2		1.64		2.32	
92																														
93	**DIOXINS AND FURANS (ng/L)**																													
94	**Method 8290**																													
95	2,3,7,8-TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																														
121	**ETHANOL (mg/L)**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																														

BZTO104(e)021774

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BG	BH	BI	BJ	BK	BL	BM	BN
1									
2									
3		LW1S		LW1S		LW1S		LW1S	
4		0406060-02		0408020-01		0411052-06		0502099-01	
5		6/9/04		8/03/04		11/9/04		2/22/05	
87	**FIELD PARAMETERS**								
88	pH (avg)	5.1		6.55		6.45		6.82	
89	Temperature (° C) (avg)	16.2		16.7		16.6		15.4	
90	Conductivity (um/hos)	207		269		228		157	
91	Dissolved oxygen (mg/L) (avg)	1.46		NM		2.02		0.72	
92									
93	**DIOXINS AND FURANS (ng/L)**								
94	**Method 8290**								
95	2,3,7,8-TCDF	NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA	
120									
121	**ETHANOL (mg/L)**	NA		NA		NA		NA	
122									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S
4			S167K		T176E		U235T		V208F		W371G		Y336I		Z225E		Z960A		AH27G		AU45J		BB82C		BH75G		BR55G		CB49C
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/19/98		11/13/98		2/17/99		5/17/99		9/23/99		12/6/99		2/15/00		5/23/00		8/28/00
123		**PAHs (µg/L)**																											
124		**EPA Method SW8270 SIM**																											
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
1																														
2																														
3			LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S	
4			CK77D		CT37B		DE68F		DM52E		DW48M		ED16J		EM75G		ER92C		EY88E		FF88M		FL41F		FU31C		FY64J		0402098-02	
5			11/7/00		2/12/01		6/4/01		8/15/01		11/29/01		2/25/02		6/25/02		08/26/02		11/11/02		2/13/03		5/7/03		8/27/03		10/21/03		2/19/04	
123	**PAHs (µg/L)**																													
124	**EPA Method SW8270 SIM**																													
125	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.1	U	NA	
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.1	U	NA	
127	Acenaphthylene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.1	U	NA	
128	Acenaphthene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.1	U	NA	
129	Fluorene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.1	U	NA	
130	Anthracene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.1	U	NA	
131	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.1	U	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BG	BH	BI	BJ	BK	BL	BM	BN
1									
2									
3		LW1S		LW1S		LW1S		LW1S	
4		0406060-02		0408020-01		0411052-06		0502099-01	
5		6/9/04		8/03/04		11/9/04		2/22/05	
123	**PAHs (µg/L)**								
124	**EPA Method SW8270 SIM**								
125	Naphthalene	NA		NA		NA		0.0479	U
126	2-Methylnaphthalene	NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		0.0479	U
128	Acenaphthene	NA		NA		NA		0.0479	U
129	Fluorene	NA		NA		NA		0.0479	U
130	Anthracene	NA		NA		NA		0.0479	U
131	Dibenzofuran	NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																														
2																									Dup of LW4S				
3			LW4S		LW4S		LW4S		LW4S		LW4S (a)		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW40S		LW4S			
4			S167J		T176G		U235O		V232E		B802035-01		W391F		Y314F		Z225K		Z960L		AH49G		AU45B		AU45A		BC27Q			
5			4/1/97		7/15/97		10/22/97		1/30/98		1/30/98		5/20/98		8/17/98		11/14/98		2/18/99		5/18/99		9/22/99		9/22/99		12/9/99			
6																														
7	1	**CHLORINATED PHENOLS (µg/L)**																												
8	2	**EPA Method SW8040**																												
9	3	Pentachlorophenol	**5.3**		**1.7**		**1.2**		**0.43**		**0.282**		**5.3**		**5.9**		**3900**		**0.42**		**6.4**		**22**		**23**		**5.4**			
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	**0.85**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25		
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25		
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	4.4	U	0.25	U	0.25	U	0.29	U	0.29	U	0.25			
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25		
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**0.32**		**0.16**	J1	0.25	U	0.25	U	0.250	U	**0.92**		**0.73**		**170**		0.25	U	**0.83**		**3.2**		**3.2**		**0.63**			
15	9	2,3,4,5-Tetrachlorophenol	**0.27**		0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	**15**	J1	0.25	U	0.25	U	0.25	U	0.25	U	0.25			
16	10																													
17	11	**SEMIVOLATILES (µg/L)**																												
18	12	**EPA Method SW8270**																												
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	5.00	U	2.0	U	2.0	U	2.0	U	2.0	U	**170**	J2	2.0	U	2.0	U	2.0			
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	5.00	U	1.0	U	1.0	U	1.0	U	1.0	U	**27**		1.0	U	1.0	U	1.0			
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0			
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	10.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0			
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	NA		10	U	10	U	10	U	10	U	**29**		10	U	10	U	10			
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	**39**		1.0	U	1.0	U	1.0			
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	**55**		1.0	U	1.0	U	1.0			
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.00	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0			
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.00	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0			
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0			
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0			
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0			
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	**5.6**		**8.2**		**4200**		5.0	U	**2.3**	J1	**22**		**21**		**4.9**			
32	26	bis(2-Ethylhexyl)phthalate	**2.0**		**2.8**	J2	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0			
33	27																													
34	28	**VOLATILES (µg/L)**																												
35	29	**EPA Method SW8260**																												
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0			
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0			
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	**12**		**13**		5.0					
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0			
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0			
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0			
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**1.8**		1.0	U	1.0	U	1.0	U	1.0	U	1.0			
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0			
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**3.8**		1.0	U	1.0	U	**1.0**	J1	**1.4**		1.0			
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**20**		1.0	U	**8.1**		**1.4**		**1.9**		1.0			
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**5.7**		1.0	U	1.0	U	1.0	U	1.0	U	1.0			
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**77**		1.0	U	1.0	U	**10**	J2	**13**	J2	1.0			
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**5.3**		1.0	U	1.0	U	1.0	U	**1.1**		1.0			
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**6.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0			
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0			
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	UJ	**5.9**		1.0	U	1.0	U	1.0	U	1.0	U	1.0			
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0			
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**2.5**		1.0	U	1.0	U	1.0	U	1.0	U	1.0			
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	**7.1**		5.0	U	5.0	U	5.0	U	5.0	U	5.0			
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
56	49																													
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
58	51	**Method OR-DEQ**																												
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	NA		**0.44**		**0.32**		**3.6**		0.25	U	0.25	U	**0.42**		**0.56**		0.25			
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
62	55																													

BZTO104(e)021779

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
1																												
2			Dup of LW4S																									
3			LW40S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S	
4			BC27O		BH96D		BR55C		CB68C		CL03F		CT67C		DE87J		DM30C		DW29F		ED30G		EN00G		ER93K		EZ17E	
5			12/9/99		2/17/00		5/22/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/13/02	
6																												
7	**CHLORINATED PHENOLS (µg/L)**																											
8	**EPA Method SW8040**																											
9	Pentachlorophenol		**5.4**		**2.5**		**740**	J2	**7200**		**48**		0.25	U	0.25	U	0.25	U	0.25	U	**2.0**		NA		NA		**1.5**	
10	2,4,6-Trichlorophenol	U	0.25	U	0.25	U	**0.35**	J2	**2.2**		0.25	U	NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	U	0.25	U	0.25	U	**0.27**	J2	**6.1**		0.25	U	NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	U	0.25	U	0.25	U	**2.7**	J2	37	U	3.8	U	NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	U	0.25	U	0.25	U	0.25	U	**2.9**		0.25	U	NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol		**0.59**		**0.32**		**190**	J2	**730**		**4.1**		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	U	0.25	U	0.25	U	**1.6**		**130**		**5.9**		NA		NA		NA		NA		NA		NA		NA		NA	
16																												
17	**SEMIVOLATILES (µg/L)**																											
18	**EPA Method SW8270**																											
19	Phenol	U	2.0	U	2.0	UJ	2.0	U	200	U	**730**		**100**		2.0	U	**3.3**		2.0	U	2.1	U	**56**		**210**		2.2	U
20	4-Methylphenol	U	1.0	U	1.0	UJ	1.0	U	**3.6**	M	**120**		**210**		**1.7**		1.0	U	1.0	U	1.1	U	22	U	**50**		1.1	U
21	Isophorone	U	1.0	U	1.0	UJ	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.0	U	1.2	U	1.1	U
22	2,4-Dimethylphenol	U	3.0	U	3.0	UJ	3.0	U	3.0	U	9.0	U	**4.4**		**3.1**		**5.9**		3.0	U	3.2	U	3.0	U	3.8	U	3.3	U
23	Benzoic Acid	U	10	U	10	UJ	10	U	**44**		**96**		**200**		10	U	10	U	30	U	53	U	50	U	62	U	54	U
24	Naphthalene	U	1.0	U	1.0	UJ	**15**		**21**		**13**		**8.5**		**19**		**19**		1.0	U	1.1	U	**14**		**5.6**		1.1	U
25	2-Methylnaphthalene	U	1.0	U	1.0	UJ	1.0	U	1.0	U	**5.7**		**3.6**		**9.5**		**12**		1.0	U	1.1	U	**7.5**		**2.1**		1.1	U
26	2,4,6-Trichlorophenol	U	5.0	U	5.0	UJ	5.0	U	5.0	U	15	U	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	**17**		**7.7**		5.4	U
27	2,4,5-Trichlorophenol	U	5.0	U	5.0	UJ	5.0	U	5.0	U	15	U	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	**8.9**		6.2	U	5.4	U
28	Acenaphthene	U	1.0	U	1.0	UJ	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.0	U	1.2	U	1.1	U
29	Dibenzofuran	U	1.0	U	1.0	UJ	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.0	U	1.2	U	1.1	U
30	Fluorene	U	1.0	U	1.0	UJ	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.0	U	1.2	U	1.1	U
31	Pentachlorophenol	J1	**4.4**	J1	5.0	UJ	**760**	J2	**9400**	J2	**120**		5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	**2200**		**770**		5.4	U
32	bis(2-Ethylhexyl)phthalate	U	1.0	U	1.1	UJ	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**120**		4.0	U	5	U	4.3	U
33																												
34	**VOLATILES (µg/L)**																											
35	**EPA Method SW8260**																											
36	Acetone	U	5.0	U	5.0	U	**25**		**83**		**49**		**41**		5.0	U	15	U	5.0	U	5.0	U	**120**		**320**		19	U
37	Carbon Disulfide	U	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U
38	2-Butanone	U	5.0	U	5.0	U	**18**		25	U	**110**		**100**		5.0	U	15	U	5.0	U	5.0	U	**58**		**27**		5	U
39	Benzene	U	1.0	U	1.0	U	1.0	U	5.0	U	**7.4**		**110**		**80**		**78**		1.0	U	1.0	U	**4.1**		3	U	1	U
40	Bromoform	U	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U
41	Toluene	U	1.0	U	1.0	U	1.0	U	**9.2**		**19**		**25**		**41**		**6.9**		1.0	U	1.0	U	**7.5**		**10**		1	U
42	Ethylbenzene	U	1.0	U	1.0	U	**9.8**		**94**		**61**		**79**		**190**		**140**		1.0	U	1.0	U	**68**		**94**	J	**4.8**	
43	Styrene	U	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U
44	m,p-Xylene	U	1.0	U	1.0	U	**17**		**110**		**170**		**240**		**600**		**460**		1.0	U	1.0	U	**95**		**150**		**3.8**	
45	o-Xylene	U	1.0	U	1.0	U	**140**		**210**		**88**		**120**		**240**		**180**		1.0	U	1.0	U	**180**		**180**		**5.9**	
46	1,3,5-Trimethylbenzene	U	1.0	U	1.0	U	**3.2**		**140**		**46**		**58**		**130**		**94**		1.0	U	1.0	U	**58**		**150**	J	**1.7**	
47	1,2,4-Trimethylbenzene	U	1.0	U	1.0	U	**33**		**500**		**160**		**130**		**350**		**280**		**1.5**		1.0	U	**230**		**540**	J	**19**	
48	Isopropylbenzene	U	1.0	U	1.0	U	**28**		**48**		**19**		**28**		**62**		**37**		1.0	U	1.0	U	**38**		**63**	J	**4.5**	
49	n-Propylbenzene	U	1.0	U	1.0	U	**9.8**		**79**		**27**		**36**		**79**		**48**		**1.1**		1.0	U	**43**		**94**	J	**5.4**	
50	tert-Butylbenzene	U	1.0	U	1.0	U	**3.4**		5.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	**3.1**		3	U	1	U
51	sec-Butylbenzene	U	1.0	U	1.0	U	**26**		**25**		**7.7**		**7.0**		1.0	U	3.0	U	1.0	U	1.0	U	**16**		**21**	J	**2**	
52	4-Isopropyltoluene	U	1.0	U	1.0	U	1.0	U	**19**		**4.8**		**4.9**		**9.9**		**6.7**		1.0	U	1.0	U	**8.8**		**16**		1	U
53	n-Butylbenzene	U	1.0	U	1.0	U	1.6	U	13	U	6.8	U	**6.2**		10	U	7.5	U	1.0	U	1.0	U	7.9		**11**	J	1	U
54	Naphthalene	U	5.0	U	5.0	U	**26**		**31**		**19**		**18**		**48**		**27**		5.0	U	5.0	U	**21**		15	U	5	U
55	Methyl tert-butyl ether		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																												
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																											
58	**Method OR-DEQ**																											
59	**TPH-Diesel**	U	0.25	U	0.25	U	**3.6**		**15**		**19**		**3.4**		**7.9**		**4.1**		0.25	U	**0.34**		**25**		**9.9**		**3.2**	
60	**TPH-D Motor Oil**		NA		NA		NA		NA		5.0	U	NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																												

BZTO104(e)021780

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV
1																					
2																Dup of LW4S					
3		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		X		LW4S		LW4S	
4		FF65F		FL58F		FU45O		FY82K		0402113-07		0408036-08		0411066-12		0411066-01		0502087-01		P5F0223-07	
5		2/11/03		5/8/03		8/28/03		10/24/03		2/23/04		8/05/04		11/11/04		11/11/04		2/17/05		6/6/05	
6																					
7	**CHLORINATED PHENOLS (µg/L)**																				
8	**EPA Method SW8040**																				
9	Pentachlorophenol	0.26	U	NA		NA		**3.9**		0.49	U	NA		5.08	U	0.5	U	0.501	U	NA	
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																					
17	**SEMIVOLATILES (µg/L)**																				
18	**EPA Method SW8270**																				
19	Phenol	2	U	2	U	2	U	2	U	2.05	U	2	U	2.03	U	1.97	U	2.01	U	5.00	U
20	4-Methylphenol	1	U	1	U	1	U	1	U	10.2	U	10	U	10.2	U	9.83	U	10.1	U	5.00	U
21	Isophorone	1	U	1	U	1	U	1	U	1.02	U	1	U	1.02	U	0.983	U	1.01	U	5.00	U
22	2,4-Dimethylphenol	3.1	U	3	U	3	U	3	U	3.07	U	3	U	3.05	U	2.95	U	3.02	U	10.00	U
23	Benzoic Acid	51	U	50	U	50	U	10	U	20.5	U	20	U	20.3	U	19.7	U	20.1	U	50.0	U
24	Naphthalene	1	U	**4.8**		1	U	1	U	1.02	U	1	U	1.02	U	0.983	U	1.01	U	5.00	U
25	2-Methylnaphthalene	1	U	1	U	1	U	1	U	1.02	U	1	U	1.02	U	0.983	U	1.01	U	5.00	U
26	2,4,6-Trichlorophenol	5.1	U	5	U	5	U	5	U	5.12	U	5	U	5.08	U	4.92	U	5.03	U	5.00	U
27	2,4,5-Trichlorophenol	5.1	U	5	U	5	U	5	U	5.12	U	5	U	5.08	U	4.92	U	5.03	U	5.00	U
28	Acenaphthene	1	U	1	U	1	U	1	U	1.02	U	1	U	1.02	U	0.983	U	1.01	U	5.00	U
29	Dibenzofuran	1	U	1	U	1	U	1	U	1.02	U	1	U	1.02	U	0.983	U	1.01	U	5.00	U
30	Fluorene	1	U	1	U	1	U	1	U	1.02	U	1	U	1.02	U	0.983	U	1.01	U	5.00	U
31	Pentachlorophenol	5.1	U	**1400**		**17**		5	U	5.12	U	**8.52**		0.494	U	4.92	U	5.03	U	**58.4**	
32	bis(2-Ethylhexyl)phthalate	1	U	**1**		1	U	1	U	1.02	U	1	U	1.02	U	0.983	U	1.01	U	10.00	U
33																					
34	**VOLATILES (µg/L)**																				
35	**EPA Method SW8260**																				
36	Acetone	5	U	**7.2**	M	5	U	5	U	50	U	50	U	50	U	50	U	50	U	25.0	U
37	Carbon Disulfide	1	U	1	U	1	U	1	U	2	U	2	U	2	U	2	U	2	U	10.00	U
38	2-Butanone	5	U	5	U	5	U	5	U	10	U	10	U	10	U	10	U	10	U	10.00	U
39	Benzene	1	U	**3.2**		1	U	1	U	0.4	U	0.3	U	0.3	U	0.3	U	0.3	U	**1.20**	
40	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
41	Toluene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
42	Ethylbenzene	1	U	**11**		1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
43	Styrene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
44	m,p-Xylene	1	U	**14**		1	U	1	U	2	U	2	U	2	U	2	U	2	U	2.00	U
45	o-Xylene	1	U	**59**		1	U	1	U	1	U	1	U	1	U	1	U	1	U	**16.5**	
46	1,3,5-Trimethylbenzene	1	U	**18**		1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
47	1,2,4-Trimethylbenzene	1	U	**210**		**1.2**	J	**1.4**		1	U	1	U	1	U	1	U	1	U	**4.49**	
48	Isopropylbenzene	1	U	**24**		1	U	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
49	n-Propylbenzene	1	U	**27**		1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
50	tert-Butylbenzene	1	U	**1.7**		1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
51	sec-Butylbenzene	1	U	**8.3**		1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
52	4-Isopropyltoluene	1	U	**5.7**		1	U	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
53	n-Butylbenzene	1	U	**5**	M	1	U	1	U	1	U	1	U	1	U	1	U	1	U	5.00	U
54	Naphthalene	5	U	**42**		5	U	5	U	1	U	1	U	1	U	1	U	1	U	2.00	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		1	U	1	U	1	U	1	U	1	U	1.00	U
56																					
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																				
58	**Method OR-DEQ**																				
59	**TPH-Diesel**	0.25	U	**5.3**		**0.36**		**0.26**		0.244	U	0.256	U	0.244	U	0.248	U	0.254	U	0.278	U
60	**TPH-D Motor Oil**	NA		NA		NA		0.5	U	0.487	U	0.511	U	0.488	U	0.496	U	0.509	U	0.556	U
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.161**	
62																					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																									Dup of LW4S		
3			LW4S		LW4S		LW4S		LW4S		LW4S (a)		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW40S		LW4S
4			S167J		T176G		U235O		V232E		B802035-01		W391F		Y314F		Z225K		Z960L		AH49G		AU45B		AU45A		BC27Q
5			4/1/97		7/15/97		10/22/97		1/30/98		1/30/98		5/20/98		8/17/98		11/14/98		2/18/99		5/18/99		9/22/99		9/22/99		12/9/99
63	56	**PRIORITY POLLUTANT**																									
64	57	**METALS (mg/L)**																									
65	58	Arsenic (7060)	0.001	U	**0.002**		0.05	U	0.05	U	NA		**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001
66	59	Chromium (6010)	0.005	U	**0.015**		0.005	U	0.005	U	NA		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
67	60	Copper (6010)	**0.004**		**0.015**		0.002	U	**0.004**		NA		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002
68	61	Lead (7421)	0.001	U	**0.006**		0.02	U	0.02	U	NA		0.001	U	0.001	U	0.001	U	0.001	U	**0.002**		0.001	U	0.001	U	0.001
69	62	Nickel (6010)	**0.02**		**0.02**		0.01	U	0.01	U	NA		0.01	U	0.01	U	0.01	U	0.01	U	**0.01**		0.01	U	0.01	U	0.01
70	63	Zinc (6010)	**0.008**		**0.035**		0.004	U	**0.009**		NA		**0.005**	J2	0.004	U	**0.005**		**0.009**	J2	**0.011**		**0.007**		0.004	U	0.008
71	64																										
72	65	**MAJOR IONS AND CONVENTIONALS**																									
73	66	Calcium (mg/L) (6010)	**20.7**		**20.4**		**16.9**		**15.1**		NA		NA		NA		NA		**10.7**		NA		NA		NA		NA
74	67	Magnesium (mg/L) (6010)	**5.92**		**7.1**		**4.46**		**4.60**		NA		NA		NA		NA		**2.98**		NA		NA		NA		NA
75	68	Potassium (mg/L) (6010)	**3.9**		**4.5**		**4.2**		**3.5**		NA		NA		NA		NA		**2.6**		NA		NA		NA		NA
76	69	Sodium (mg/L) (6010)	**13.2**		**13.7**		**11.6**		**10.0**		NA		NA		NA		NA		**6.10**		NA		NA		NA		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**75**		**64**		**62**		**64**		NA		NA		NA		NA		**43**		NA		NA		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		1.0	U	NA		NA		NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**75**		**64**		**62**		**64**		NA		NA		NA		NA		**43**		NA		NA		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**140**	J2	**110**		**140**	J2	NA		160		160		180		**110**		**140**		**150**		**160**		**120**
81	74	Chloride (mg/L) (EPA 325.2)	**4.5**	J	**3.1**		**3.5**		**2.1**		NA		4.5		4.3		13		1.0	U	**2.2**		**7.1**		**6.9**		**4.3**
82	75	N-Nitrate (mg-N/L) (Calculated)	**11**	J	**3.3**		**5.1**		**4.2**	J2	NA		NA		NA		NA		**1.8**		NA		NA		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	0.010	U	0.010	U	**0.021**	J2	NA		NA		NA		NA		0.010	U	NA		NA		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**11**	J	**3.3**		**5.1**		**4.3**	J2	NA		NA		NA		NA		**1.8**		NA		NA		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	**13**	J	**15**		**4.5**		**6.8**		NA		NA		NA		NA		**6.5**		NA		NA		NA		NA
86	79																										

BZTO104(e)021782

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
1																												
2			Dup of LW4S																									
3			LW40S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S	
4			BC27O		BH96D		BR55C		CB68C		CL03F		CT67C		DE87J		DM30C		DW29F		ED30G		EN00G		ER93K		EZ17E	
5			12/9/99		2/17/00		5/22/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/13/02	
63	**PRIORITY POLLUTANT**																											
64	**METALS (mg/L)**																											
65	Arsenic (7060)	U	0.001	U	0.001	U	**0.001**		**0.004**		**0.006**		**0.009**		**0.008**		**0.010**		**0.002**		0.001	U	**0.002**		**0.006**		0.05	U
66	Chromium (6010)	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.07**	
67	Copper (6010)	U	0.002	U	0.002	U	**0.008**		**0.016**		**0.008**		0.002	U	**0.002**		0.002	U	0.002	U	0.002	U	**0.085**		**0.05**		**0.163**	
68	Lead (7421)	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		**0.002**		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		**0.04**	
69	Nickel (6010)	U	0.01	U	0.01	U	**0.01**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.03**		0.01	U	**0.11**	
70	Zinc (6010)	U	0.006	U	0.006	U	0.006	U	0.006	U	**0.009**		0.006	U	0.006	U	**0.007**		0.006	U	0.006	U	0.006	U	**0.011**		**0.17**	
71																												
72	**MAJOR IONS AND CONVENTIONALS**																											
73	Calcium (mg/L) (6010)		NA		NA		NA		NA		NA		**164**		**149**		**144**		**13.9**		**25.8**		**163**		NA		NA	
74	Magnesium (mg/L) (6010)		NA		NA		NA		NA		NA		**56.0**		**48.2**		**43.6**		**4.06**		**7.66**		**49.6**		NA		NA	
75	Potassium (mg/L) (6010)		NA		NA		NA		NA		NA		**5.6**		**5.9**		**6.4**		**2.5**		**3.5**		**7.9**		NA		NA	
76	Sodium (mg/L) (6010)		NA		NA		NA		NA		NA		**9.87**		**9.35**		**11.5**		**4.35**		**7.39**		**15.0**		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		**810**		NA		NA		NA		**80**		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		**810**		NA		NA		NA		**80**		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**120**		**150**		**490**		**420**		**990**		**760**		**720**	J	**580**	J	**95**		**300**		**890**		**380**		**320**	
81	Chloride (mg/L) (EPA 325.2)		**4.5**		**3.5**		**9.9**		**4.6**		**7.7**		**7.5**	J	**5.3**		**7.1**		**1.7**		**6.7**	J	**9.4**		**5.2**		**7.3**	
82	N-Nitrate (mg-N/L) (Calculated)		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**8.4**		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		NA		NA		NA		NA		**0.013**	J	NA		NA		NA		**0.022**		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**8.4**		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)		NA		NA		NA		NA		NA		**8.4**		NA		NA		NA		**18**		NA		NA		NA	
86																												

BZTO104(e)021783

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV
1																					
2																Dup of LW4S					
3		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		X		LW4S		LW4S	
4		FF65F		FL58F		FU45O		FY82K		0402113-07		0408036-08		0411066-12		0411066-01		0502087-01		P5F0223-07	
5		2/11/03		5/8/03		8/28/03		10/24/03		2/23/04		8/05/04		11/11/04		11/11/04		2/17/05		6/6/05	
63	**PRIORITY POLLUTANT**																				
64	**METALS (mg/L)**																				
65	Arsenic (7060)	0.001	U	0.001	U	**0.002**		**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	**0.006**		**0.0071**		0.005	U	0.005	U	0.005	U	**0.008**		0.001	U
67	Copper (6010)	**0.002**		**0.028**		**0.003**		**0.006**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.0202**	
68	Lead (7421)	0.001	U	0.001	U	0.001	U	0.001	U	0.0001	U	0.0001	U	**0.00018**		**0.00067**		**0.000546**		0.001	U
69	Nickel (6010)	0.01	U	**0.01**		0.01	U	0.01	U	0.005	U	0.005	U	0.0121	U	0.0128	U	**0.0219**		**0.0524**	
70	Zinc (6010)	0.006	U	0.006	U	0.006	U	**0.009**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.005	U
71																					
72	**MAJOR IONS AND CONVENTIONALS**																				
73	Calcium (mg/L) (6010)	**7.7**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	**2.25**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	**1.8**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	**4**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	**36**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**36**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**66**		**290**		**200**		**140**		**166**		**244**		**232**		**194**		**192**		**326**	
81	Chloride (mg/L) (EPA 325.2)	1	U	**9.8**		**5.8**		**3**		**6.03**		**15.5**		**2.29**	J	**1.78**	J	**3.89**		**4.71**	
82	N-Nitrate (mg-N/L) (Calculated)	**0.76**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	0.01	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.76**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	**6.4**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86																					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2																									Dup of LW4S		
3			LW4S		LW4S		LW4S		LW4S		LW4S (a)		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW40S		LW4S
4			S167J		T176G		U235O		V232E		B802035-01		W391F		Y314F		Z225K		Z960L		AH49G		AU45B		AU45A		BC27Q
5			4/1/97		7/15/97		10/22/97		1/30/98		1/30/98		5/20/98		8/17/98		11/14/98		2/18/99		5/18/99		9/22/99		9/22/99		12/9/99
87	80	**FIELD PARAMETERS**																									
88	81	pH (avg)	6.46		6.86		6.76		6.61		6.61		6.08		6.23		6.33		6.31		5.67		6.51		6.49		6.57
89	82	Temperature (° C) (avg)	11.3		17.0		14.9		12.1		12.1		12.6		16.6		14.3		10.0		13.3		15.4		15.4		13.0
90	83	Conductivity (um/hos)	212		212		173		163		163		263		301		111		110		192		229		229		177
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		2.41		2.15		1.75		4.54		2.58		1.74		1.67		4.58
92	85																										
93	86	**DIOXINS AND FURANS (ng/L)**																									
94	87	**Method 8290**																									
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																											
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
122																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
1																												
2			Dup of LW4S																									
3			LW40S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S	
4			BC27O		BH96D		BR55C		CB68C		CL03F		CT67C		DE87J		DM30C		DW29F		ED30G		EN00G		ER93K		EZ17E	
5			12/9/99		2/17/00		5/22/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/13/02	
87	**FIELD PARAMETERS**																											
88	pH (avg)		6.57		6.48		6.28		5.70		5.74		6.31		6.80		6.75		6.21		5.64		6.23		6.68		6.2	
89	Temperature (° C) (avg)		12.9		13.1		14.5		15.1		14.3		13.5		14.2		16.2		14.6		12.6		14.4		15.8		16.1	
90	Conductivity (um/hos)		177		209		478		433		884		809		1400		973		129		253		843		477		465	
91	Dissolved oxygen (mg/L) (avg)		4.75		0.93		1.91		1.36		0.62		0.00		0.00		0.84		4		7.53		5.19		0.62		2.03	
92																												
93	**DIOXINS AND FURANS (ng/L)**																											
94	**Method 8290**																											
95	2,3,7,8-TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121	**ETHANOL (mg/L)**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV
1																					
2																Dup of LW4S					
3		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		X		LW4S		LW4S	
4		FF65F		FL58F		FU45O		FY82K		0402113-07		0408036-08		0411066-12		0411066-01		0502087-01		P5F0223-07	
5		2/11/03		5/8/03		8/28/03		10/24/03		2/23/04		8/05/04		11/11/04		11/11/04		2/17/05		6/6/05	
87	**FIELD PARAMETERS**																				
88	pH (avg)	6.59		6.33		6.82		6.65		5.8		5.89		6.4		6.43		6.55		6.75	
89	Temperature (° C) (avg)	10.9		13		16.1		15.2		11.6		15.2		16.3		16.4		14.2		14.8	
90	Conductivity (um/hos)	85		383		231		217		166		438		199		200		147		277	
91	Dissolved oxygen (mg/L) (avg)	0		2.4		1.86		2.95		2.27		2.66		2.11		2.04		5.78		3.69	
92																					
93	**DIOXINS AND FURANS (ng/L)**																				
94	**Method 8290**																				
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																					
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																									Dup of LW4S		
2			LW4S		LW4S		LW4S		LW4S		LW4S (a)		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW40S		LW4S
3			S167J		T176G		U235O		V232E		B802035-01		W391F		Y314F		Z225K		Z960L		AH49G		AU45B		AU45A		BC27Q
4			4/1/97		7/15/97		10/22/97		1/30/98		1/30/98		5/20/98		8/17/98		11/14/98		2/18/99		5/18/99		9/22/99		9/22/99		12/9/99
5																											
123		**PAHs (µg/L)**																									
124		**EPA Method SW8270 SIM**																									
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
1																												
2			Dup of LW4S																									
3			LW40S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S	
4			BC27O		BH96D		BR55C		CB68C		CL03F		CT67C		DE87J		DM30C		DW29F		ED30G		EN00G		ER93K		EZ17E	
5			12/9/99		2/17/00		5/22/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/13/02	
123	**PAHs (µg/L)**																											
124	**EPA Method SW8270 SIM**																											
125	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV
1																					
2																Dup of LW4S					
3		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		X		LW4S		LW4S	
4		FF65F		FL58F		FU45O		FY82K		0402113-07		0408036-08		0411066-12		0411066-01		0502087-01		P5F0223-07	
5		2/11/03		5/8/03		8/28/03		10/24/03		2/23/04		8/05/04		11/11/04		11/11/04		2/17/05		6/6/05	
123	**PAHs (µg/L)**																				
124	**EPA Method SW8270 SIM**																				
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		1	U	NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		1	U	NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2					Dup of LW5S																							
3			LW5S		LW5D		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S	
4			S167E		S167F		T160A		U235G		V232G		W391C		Y336E		Z225G		Z960J		AH49F		AU22E		BC27C		BH96C	
5			3/31/97		3/31/97		7/14/97		10/22/97		1/30/98		5/19/98		8/18/98		11/13/98		2/18/99		5/18/99		9/20/99		12/7/99		2/17/00	
6																												
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	**0.25**		**0.26**		**0.24**	J1	**0.25**		**0.27**		**0.18**	J1	**0.18**	J1	0.25	U	**0.25**		0.25	U	**0.13**	J1	0.25	U	**0.18**	J1
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	51	**Method OR-DEQ**																										
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																											

BZTO104(e)021791

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ
1									
2									
3		LW5S		LW5S		LW5S		LW5S	
4		BR64F		CT37E		ED16F		FF88C	
5		5/24/00		2/12/01		2/25/02		2/13/03	
6									
7	**CHLORINATED PHENOLS (µg/L)**								
8	**EPA Method SW8040**								
9	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U
10	2,4,6-Trichlorophenol	0.25	U	NA		NA		NA	
11	2,3,6-Trichlorophenol	0.25	U	NA		NA		NA	
12	2,4,5-Trichlorophenol	0.25	U	NA		NA		NA	
13	2,3,4-Trichlorophenol	0.25	U	NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	0.25	U	NA		NA		NA	
16									
17	**SEMIVOLATILES (µg/L)**								
18	**EPA Method SW8270**								
19	Phenol	2.0	U	2.0	U	2.0	U	2	U
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3	U
23	Benzoic Acid	10	U	10	U	50	U	50	U
24	Naphthalene	1.0	U	1.0	U	1.0	U	1	U
25	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1	U
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5	U
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	4.0	U	1	U
33									
34	**VOLATILES (µg/L)**								
35	**EPA Method SW8260**								
36	Acetone	5.0	U	6.6	U	5.0	U	5	U
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1	U
38	2-Butanone	5.0	U	5.0	U	5.0	U	5	U
39	Benzene	1.0	U	1.0	U	1.0	U	1	U
40	Bromoform	1.0	U	1.0	U	1.0	U	1	U
41	Toluene	1.0	U	1.0	U	1.0	U	1	U
42	Ethylbenzene	1.0	U	1.0	U	1.0	U	1	U
43	Styrene	1.0	U	1.0	U	1.0	U	1	U
44	m,p-Xylene	1.0	U	1.0	U	1.0	U	1	U
45	o-Xylene	1.0	U	1.0	U	1.0	U	1	U
46	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1	U
47	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1	U
48	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1	U
49	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1	U
50	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1	U
51	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1	U
52	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1	U
53	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1	U
54	Naphthalene	5.0	U	5.0	U	5.0	U	5	U
55	Methyl tert-butyl ether	NA		NA		NA		NA	
56									
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**								
58	**Method OR-DEQ**								
59	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U
60	**TPH-D Motor Oil**	NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA	
62									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB		
1																														
2					Dup of LW5S																									
3			LW5S		LW5D		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S			
4			S167E		S167F		T160A		U235G		V232G		W391C		Y336E		Z225G		Z960J		AH49F		AU22E		BC27C		BH96C			
5			3/31/97		3/31/97		7/14/97		10/22/97		1/30/98		5/19/98		8/18/98		11/13/98		2/18/99		5/18/99		9/20/99		12/7/99		2/17/00			
63	56	**PRIORITY POLLUTANT**																												
64	57	**METALS (mg/L)**																												
65	58	Arsenic (7060)	**0.001**		**0.002**		**0.002**		0.05	U	0.05	U	**0.003**		**0.003**		**0.003**		**0.008**		**0.003**		**0.003**		**0.002**		**0.003**			
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.028**		0.005	U	0.005	U	0.005	U	0.005	U		
67	60	Copper (6010)	**0.004**		**0.004**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.027**		0.002	U	0.002	U	0.002	U	0.002	U		
68	61	Lead (7421)	**0.004**		**0.003**		**0.002**		0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	**0.036**		0.001	U	0.001	U	0.001	U	0.001	U		
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.02**		0.01	U	0.01	U	0.01	U	0.01	U		
70	63	Zinc (6010)	**0.008**		**0.011**		**0.004**		**0.005**		**0.004**		**0.008**	J2	0.004	U	**0.006**		**0.081**		0.004	U	0.004	U	0.006	U	0.006	U		
71	64																													
72	65	**MAJOR IONS AND CONVENTIONALS**																												
73	66	Calcium (mg/L) (6010)	**18.5**		**18.8**		**16**		**11.5**		**14.2**		NA		NA		NA		**22.3**		NA		NA		NA		NA			
74	67	Magnesium (mg/L) (6010)	**5.42**		**5.51**		**4.67**		**3.22**		**3.96**		NA		NA		NA		**9.38**		NA		NA		NA		NA			
75	68	Potassium (mg/L) (6010)	**3.5**		**3.5**		**2.7**		**2.8**		**3.0**		NA		NA		NA		**4.8**		NA		NA		NA		NA			
76	69	Sodium (mg/L) (6010)	**11.6**		**11.8**		**10.3**		**10.2**		**10.3**		NA		NA		NA		**13.4**		NA		NA		NA		NA			
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**86**		**82**		**72**		**58**		**77**		NA		NA		NA		**78**		NA		NA		NA		NA			
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA			
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**86**		**82**		**72**		**58**		**77**		NA		NA		NA		**78**		NA		NA		NA		NA			
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		NT		**130**		**100**		**120**	J2	110		97		98		**120**		**160**		**120**		**110**		**100**			
81	74	Chloride (mg/L) (EPA 325.2)	1.0	U	**5.6**	J	**1.8**		**1.4**		**1.5**		2.5		1.0	U	1.5		**1.5**		**2.4**		**1.4**		**1.9**		**1.9**			
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.75**	J	0.010	U	**1.3**		**0.40**		**0.044**	J2	NA		NA		NA		**1.0**		NA		NA		NA		NA			
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	**0.022**	J	0.010	U	0.010	U	**0.010**	J2	NA		NA		NA		**0.034**		NA		NA		NA		NA			
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.75**	J	**0.016**	J	**1.3**		**0.40**		**0.054**	J2	NA		NA		NA		**1.0**		NA		NA		NA		NA			
85	78	Sulfate (mg/L) (EPA 375.2)	**11**	J	**4.0**	J	**10**		**5.7**		**6.7**		NA		NA		NA		**9.5**		NA		NA		NA		NA			
86	79																													

BZTO104(e)021793

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ
1									
2									
3		LW5S		LW5S		LW5S		LW5S	
4		BR64F		CT37E		ED16F		FF88C	
5		5/24/00		2/12/01		2/25/02		2/13/03	
63	**PRIORITY POLLUTANT**								
64	**METALS (mg/L)**								
65	Arsenic (7060)	**0.003**		**0.002**		**0.003**		**0.003**	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	0.002	U	0.002	U	0.002	U	**0.013**	
68	Lead (7421)	0.001	U	0.001	U	0.001	U	0.001	U
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U
70	Zinc (6010)	0.006	U	0.006	U	0.006	U	**0.013**	
71									
72	**MAJOR IONS AND CONVENTIONALS**								
73	Calcium (mg/L) (6010)	NA		**16.3**		**22.4**		**20.5**	
74	Magnesium (mg/L) (6010)	NA		**4.44**		**6.49**		**5.99**	
75	Potassium (mg/L) (6010)	NA		**2.6**		**3.4**		**3**	
76	Sodium (mg/L) (6010)	NA		**9.64**		**11.4**		**10.1**	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		**81**		**100**		**88**	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		1.0	U	1.0	U	1	U
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		**81**		**100**		**88**	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**97**		**140**		**150**		**140**	
81	Chloride (mg/L) (EPA 325.2)	**1.6**		**6.3**		**1.1**		**2.1**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		**1.2**		**1.6**		**0.73**	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		0.010	U	0.010	U	0.01	U
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		**1.2**	J	**1.6**		**0.73**	
85	Sulfate (mg/L) (EPA 375.2)	NA		**9.1**		**9.0**		**10**	
86									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2					Dup of LW5S																							
3			LW5S		LW5D		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S	
4			S167E		S167F		T160A		U235G		V232G		W391C		Y336E		Z225G		Z960J		AH49F		AU22E		BC27C		BH96C	
5			3/31/97		3/31/97		7/14/97		10/22/97		1/30/98		5/19/98		8/18/98		11/13/98		2/18/99		5/18/99		9/20/99		12/7/99		2/17/00	
87	80	**FIELD PARAMETERS**																										
88	81	pH (avg)	6.56		6.56		6.58		6.74		6.86		6.24		6.33		6.19		6.65		5.79		6.43		6.33		6.49	
89	82	Temperature (° C) (avg)	11.7		11.7		14.3		14.7		13.8		13.0		16.0		13.3		14.2		12.8		17.2		13.1		11.8	
90	83	Conductivity (um/hos)	175		175		197		125		175		177		171		80		169		200		146		133		149	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		3.37		1.83		1.86		5.67		2.40		2.38		2.85		2.51	
92	85																											
93	86	**DIOXINS AND FURANS (ng/L)**																										
94	87	**Method 8290**																										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																												

BZTO104(e)021795

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ
1									
2									
3		LW5S		LW5S		LW5S		LW5S	
4		BR64F		CT37E		ED16F		FF88C	
5		5/24/00		2/12/01		2/25/02		2/13/03	
87	**FIELD PARAMETERS**								
88	pH (avg)	6.42		6.17		5.91		6.79	
89	Temperature (° C) (avg)	14.6		13.7		12.4		13.3	
90	Conductivity (um/hos)	144		148		221		208	
91	Dissolved oxygen (mg/L) (avg)	2.85		2.08		5.42		0	
92									
93	**DIOXINS AND FURANS (ng/L)**								
94	**Method 8290**								
95	2,3,7,8-TCDF	NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA	
120									
121	**ETHANOL (mg/L)**	NA		NA		NA		NA	
122									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	C	E	G	I	K	M	O	Q	S	U	W	Y	AA
2			Dup of LW5S											
3		LW5S	LW5D	LW5S	LW5S	LW5S	LW5S	LW5S	LW5S	LW5S	LW5S	LW5S	LW5S	LW5S
4		S167E	S167F	T160A	U235G	V232G	W391C	Y336E	Z225G	Z960J	AH49F	AU22E	BC27C	BH96C
5		3/31/97	3/31/97	7/14/97	10/22/97	1/30/98	5/19/98	8/18/98	11/13/98	2/18/99	5/18/99	9/20/99	12/7/99	2/17/00
123	**PAHs (µg/L)**													
124	**EPA Method SW8270 SIM**													
125	Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
126	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
127	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
128	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
129	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
130	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
131	Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ
1									
2									
3		LW5S		LW5S		LW5S		LW5S	
4		BR64F		CT37E		ED16F		FF88C	
5		5/24/00		2/12/01		2/25/02		2/13/03	
123	**PAHs (µg/L)**								
124	**EPA Method SW8270 SIM**								
125	Naphthalene	NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2							Dup of LW7S																					
3			LW7S		LW7S		LW7D		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4			S167M		T176S		T176T		U235W		V208D		W371I		Y314G		Z225R		Z960N		AH27E		AU22F		BB82A		BH75E	
5			4/1/97		7/16/97		7/16/97		10/23/97		1/28/98		5/18/98		8/17/98		11/12/98		2/17/99		5/17/99		9/20/99		12/6/99		2/15/00	
6																												
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
24	18	Naphthalene	**23**		**43**		**42**		**13**		**13**		**19**	J2	**10**		**6.5**		**4.0**		**17**		**19**		**7.8**		**1.6**	
25	19	2-Methylnaphthalene	**6.9**		**16**		**15**		**7.4**		**4.1**		**5.9**	J2	**4.6**		**3.4**		**1.2**		**4.7**		**11**		**7.4**		1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	**3.6**	J2	2.7	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	5.0	U	20	U	10	U	5.0	U	57	U	5.0	U	5.0	U	**23**		13	U	**29**		5.0	U	5.0	U	5.0	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	**8.8**		**9.0**	J2	**12**	J2	5.0	U	**5.8**		**8.9**		**8.1**		**11**		**10**		**20**		5.0	U	5.0	U	5.0	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
42	36	Ethylbenzene	**160**		**140**		**160**		**86**		**71**		**62**		**69**		**36**		**14**		**56**		**80**		**40**		**5.6**	
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	**110**		**100**		**120**		**37**		**43**		**30**		**33**		**21**		**8.4**		**22**		**28**		**17**		**2.8**	
45	39	o-Xylene	**4.2**		**3.9**		**4.4**		**1.3**		**1.3**		**1.6**		**1.6**		**1.1**		1.0	U	**1.0**		**1.6**		1.0	U	1.0	U
46	40	1,3,5-Trimethylbenzene	**15**		**24**		**25**		**21**		**6.4**		**9.1**		**5.9**		**8.0**		**2.0**		**8.3**		**4.4**		**2.4**		**2.3**	
47	41	1,2,4-Trimethylbenzene	**81**		**86**		**100**		**30**	J2	**15**		**9.9**		**7.0**		**2.9**		**3.7**		**17**		**6.3**		**2.5**		1.1	U
48	42	Isopropylbenzene	**22**		**45**		**42**		**60**	J2	**20**		**29**		**33**		**38**		**7.9**		**27**		**36**		**29**		**8.1**	
49	43	n-Propylbenzene	**31**		**64**		60		**78**		**34**		**43**		**46**		**59**		**13**		**42**		**48**		**41**		**15**	
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
51	45	sec-Butylbenzene	**2.4**		**4.9**		**4.6**		**5.7**	J2	**3.6**		**3.6**		**4.1**	J2	**4.5**		**1.8**		**3.1**		**4.0**		**3.4**		**1.7**	
52	46	4-Isopropyltoluene	**2.5**		**4.2**		**4.2**		**3.4**	J2	**1.6**		**2.3**		**2.4**		**2.1**		1.0	U	**2.0**		**2.2**		**1.4**		1.0	U
53	47	n-Butylbenzene	**3.6**		**7.4**		**7.4**		**6.4**	J2	5.0		**4.4**		**5.2**		**5.3**		**2.5**		**3.4**		**5.2**		**4.3**	M	2.4	U
54	48	Naphthalene	**64**		**66**	J2	**87**	J2	**35**	J2	**37**		**28**		**32**		**22**		**9.1**		**29**		**41**		**9.6**		5.0	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	51	**Method OR-DEQ**																										
59	52	**TPH-Diesel**	**0.48**		**0.54**		**0.48**		**0.56**		0.25	U	**0.40**		**0.28**		0.25	U	0.25	U	**0.27**		**0.54**		**0.40**		0.25	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																											

BZTO104(e)021799

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		BR55H		CB49A		CK77C		CT37A		DE68A		DM52J		DW29A		ED16G		EM75E		ER92A		EZ03M		FF88E		FL41B		FU45A	
5		5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03		5/7/03		8/28/03	
7	**CHLORINATED PHENOLS (µg/L)**																												
8	**EPA Method SW8040**																												
9	Pentachlorophenol	0.25	UJ	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	**0.25**		0.25	U	0.25	U	0.28	U	0.25	U	0.26	U	0.25	U	0.50	UJ
10	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																													
17	**SEMIVOLATILES (µg/L)**																												
18	**EPA Method SW8270**																												
19	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.2	U	2.3	U	2	U	2	U	2	U
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.3	U	3.4	U	3.1	U	3	U	3.1	U
23	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	30	U	50	U	50	U	56	U	57	U	51	U	50	U	51	U
24	Naphthalene	**5.7**		**12**		**5.2**		**3.7**		2.0		**1.8**		**1.3**		1.0	U	**9.0**		**5.2**		**1.8**		**2.1**		**1.2**		**4.4**	
25	2-Methylnaphthalene	**1.2**		**3.7**		**1.6**		**1.4**		1.0	U	1.0	U	1.0	U	1.0	U	**3.0**		**2**		1.1	U	1	U	1	U	**1.3**	
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5.7	U	5.1	U	5	U	5.1	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5.7	U	5.1	U	5	U	5.1	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5.7	U	5.1	U	5	U	5.1	U
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**4.3**		4.0	U	4.0	U	4.4	U	4.5	U	1	U	1	U	1	U
33																													
34	**VOLATILES (µg/L)**																												
35	**EPA Method SW8260**																												
36	Acetone	5.0	U	56	U	110	U	83	U	5.0	U	5.0	U	5.0	U	21	U	5.0	U	48	U	86	U	20	U	**36**	M	5	U
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
38	2-Butanone	5.0	U	9.3	U	5.0	U	**8.2**		5.0	U	**7.7**		5.0	U	5.0	U	**13**		6.6	U	**21**	M	**9.3**	M	**7.6**	M	**18**	M
39	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	**19**		**40**		**23**		**15**		**4.6**		**18**		**17**		**8.6**		**31**		**42**		**24**		**8.3**		**10**	J	**42**	
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	**8.8**		**15**		**19**		**9.1**		**5.4**		**10**		**13**		**3.7**		**15**		**18**		**12**		**6.3**		**5**	J	**20**	J
45	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	**2.1**		**3.0**		**2.8**		**1.5**		1.0	U	**1.6**		**1.4**		1.0	U	**20**		**4**		**1.4**		**1**		1	U	**3.4**	
47	1,2,4-Trimethylbenzene	**4.6**		**3.0**		**1.6**		**1.2**		1.0	U	**2.3**		1.0	U	**1.1**		**6.9**		**4.9**		**1.2**		**2.1**		**1.1**	J	**3.2**	J
48	Isopropylbenzene	**11**		**18**		**22**		**16**		**1.3**		**21**		**20**		**6.1**		**20**		**26**		**26**		**14**		**8.7**	J	**31**	
49	n-Propylbenzene	**18**		**28**		**33**		**25**		**1.3**		**27**		**27**		**11**		**30**		**40**		**36**		**23**		**14**	J	**40**	
50	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	**1.4**		**2.3**		**2.6**		**2.3**		1.0	U	**2.2**		**2.3**		1.0	U	**2.6**		**3.3**		**3**		**2.2**		**1.5**	J	**2.9**	
52	4-Isopropyltoluene	**1.5**		**1.1**		**1.2**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.6**		**2.2**		**1.1**		1	U	1	U	**1.2**	
53	n-Butylbenzene	1.5	U	**2.8**		**3.2**		**2.6**		1.0	U	**2.8**	M	3.1	U	**1.0**		2.6	U	3.7	U	**3.2**	M	**2.5**	M	**1.8**	J	**3**	
54	Naphthalene	**12**		**18**		**13**		**5.7**		5.0	U	**7.0**		5.0	U	5.0	U	**14**		**12**		**5.4**		5	U	5	U	**6.6**	
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																													
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
58	**Method OR-DEQ**																												
59	**TPH-Diesel**	0.25	U	**0.32**		**0.32**		**0.32**		**20**		**0.26**		**0.42**		0.25	U	**0.31**		**0.53**		**0.5**		**0.31**		0.25	U	**0.54**	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.5	U	NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		FY64F		0402099-03		0406059-05		0408019-01		0411051-10		0502102-07		P5F0223-01	
5		10/20/03		2/19/04		6/9/04		8/03/04		11/9/04		2/23/05		6/6/05	
7	**CHLORINATED PHENOLS (µg/L)**														
8	**EPA Method SW8040**														
9	Pentachlorophenol	0.5	U	0.486	U	0.499	U	0.5	U	0.488	U	0.499	U	0.481	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
16															
17	**SEMIVOLATILES (µg/L)**														
18	**EPA Method SW8270**														
19	Phenol	2	U	1.95	U	2.02	U	1.99	U	2	U	1.9	U	5.00	U
20	4-Methylphenol	1	U	9.75	U	10.1	U	9.96	U	10	U	9.51	U	5.00	U
21	Isophorone	1	U	0.975	U	1.01	U	0.996	U	1	U	0.951	U	5.00	U
22	2,4-Dimethylphenol	3	U	2.92	U	3.02	U	2.99	U	3.01	U	2.85	U	10.00	U
23	Benzoic Acid	10	U	19.5	U	20.2	U	19.9	U	20	U	19	U	50.0	U
24	Naphthalene	**4.4**		0.975	U	**5.13**		**4.43**		1	U	0.951	U	5.00	U
25	2-Methylnaphthalene	**1.9**		0.975	U	1.01	U	**1.66**		1	U	0.951	U	5.00	U
26	2,4,6-Trichlorophenol	5	U	4.87	U	5.04	U	4.98	U	5.01	U	4.75	U	5.00	U
27	2,4,5-Trichlorophenol	5	U	4.87	U	5.04	U	4.98	U	5.01	U	4.75	U	5.00	U
28	Acenaphthene	1	U	0.975	U	1.01	U	0.996	U	1	U	0.951	U	5.00	U
29	Dibenzofuran	1	U	0.975	U	1.01	U	0.996	U	1	U	0.951	U	5.00	U
30	Fluorene	1	U	0.975	U	1.01	U	0.996	U	1	U	0.951	U	5.00	U
31	Pentachlorophenol	5	U	4.87	U	5.04	U	4.98	U	5.01	U	4.75	U	10	U
32	bis(2-Ethylhexyl)phthalate	1	U	0.975	U	1.01	U	0.996	U	1	U	0.951	U	10.00	U
33															
34	**VOLATILES (µg/L)**														
35	**EPA Method SW8260**														
36	Acetone	5	U	50	U	50	U	50	U	50	U	50	U	25.0	U
37	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U	2	U	10.00	U
38	2-Butanone	**17**	M	10	U	10	U	10	U	10	U	10	U	10.00	U
39	Benzene	1	U	0.4	U	0.3	U	0.3	U	0.3	U	0.3	U	1.00	U
40	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
41	Toluene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
42	Ethylbenzene	**29**		**7.76**		**50.8**		**78.8**		**13.8**		**5.14**		**2.76**	
43	Styrene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
44	m,p-Xylene	**16**		2	U	**21.6**		**33.2**		**15.3**		**4.85**		2.00	U
45	o-Xylene	1	U	1	U	1	U	**1.02**		**1.87**		1	U	1.00	U
46	1,3,5-Trimethylbenzene	**3.3**		1	U	**4.24**		**4.78**		**1.63**		1	U	1.00	U
47	1,2,4-Trimethylbenzene	**2.2**		1	U	**3.34**		**3.58**		1	U	1	U	1.00	U
48	Isopropylbenzene	**42**		**13.6**		**24.9**		**54.7**		**34.4**		**11.4**		**4.88**	
49	n-Propylbenzene	**54**		**27.5**		**41.8**		**62.9**		**50**		**23.7**		**7.60**	
50	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
51	sec-Butylbenzene	**3.7**		**2.18**		**2.15**		**4.13**		**2.8**		**2.32**		1.00	U
52	4-Isopropyltoluene	**1.6**		1	U	1	U	**1.81**		**1.32**		**1.84**		2.00	U
53	n-Butylbenzene	**4.3**		**2.67**		**2.16**		**3.74**		**3.79**		**7.48**		5.00	U
54	Naphthalene	**5.5**		1	U	**11.3**		**10.1**		1	U	**4.9**		2.00	U
55	Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
56															
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**														
58	**Method OR-DEQ**														
59	**TPH-Diesel**	**0.6**		**0.333**		**0.651**		**0.516**		**0.413**		0.248	U	0.25	U
60	**TPH-D Motor Oil**	0.5	U	0.476	U	**0.567**		0.501	U	0.497	U	0.495	U	0.5	U
61	**TPH-Gasoline**	**2.1**		**1.2**		**0.38**		**1.73**		**1.63**		**1.26**		**0.416**	
62															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2							Dup of LW7S																					
3			LW7S		LW7S		LW7D		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4			S167M		T176S		T176T		U235W		V208D		W371I		Y314G		Z225R		Z960N		AH27E		AU22F		BB82A		BH75E	
5			4/1/97		7/16/97		7/16/97		10/23/97		1/28/98		5/18/98		8/17/98		11/12/98		2/17/99		5/17/99		9/20/99		12/6/99		2/15/00	
63	56	**PRIORITY POLLUTANT**																										
64	57	**METALS (mg/L)**																										
65	58	Arsenic (7060)	**0.014**		**0.017**		**0.017**		0.05	U	0.05	U	**0.015**		**0.015**		**0.017**		**0.016**		**0.010**		**0.018**		**0.016**		**0.017**	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	60	Copper (6010)	**0.004**		**0.002**		**0.002**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
68	61	Lead (7421)	**0.003**		**0.005**		**0.005**		0.02	U	0.02	U	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	**0.015**		**0.005**		**0.005**		0.004	U	**0.004**		**0.007**	J2	**0.008**		0.004	U	**0.007**	J	0.006	U	**0.004**		**0.007**		0.006	U
71	64																											
72	65	**MAJOR IONS AND CONVENTIONALS**																										
73	66	Calcium (mg/L) (6010)	**24.9**		**27.9**		**26.9**		**31.4**		**30.6**		NA		NA		NA		**29.8**		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**9.15**		**10.2**		**9.94**		**11.6**		**11.0**		NA		NA		NA		**10.8**		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**2.7**		**3.0**		**2.9**		**2.9**		**2.5**		NA		NA		NA		**2.9**		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**8.93**		**9.78**		**9.84**		**9.53**		**9.52**		NA		NA		NA		**9.86**		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**120**		**93**	**J2**	**130**	**J2**	**160**		**150**		NA		NA		NA		**140**		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**120**		**93**	J2	**130**	J2	**160**		**150**		NA		NA		NA		**140**		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**180**	J2	**150**	J2	**170**		**180**		130		130		140		**190**		**200**		**180**		**190**		**190**	
81	74	Chloride (mg/L) (EPA 325.2)	**3.6**	J	**3.5**		**3.6**		**3.0**		**2.4**		2.8		1.0	U	1.9		**3.0**		**3.0**		**2.6**		**5.0**		**3.6**	
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.23**	J	0.010	U	0.010	U	**0.023**		**0.010**		NA		NA		NA		**0.24**		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	**0.015**	J	**0.021**	J2	**0.048**	J2	0.010	U	0.010	U	NA		NA		NA		**0.017**		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.25**	J	**0.016**	J2	**0.027**	J2	**0.023**		**0.010**		NA		NA		NA		**0.26**		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	**4.3**	J	**2.8**		**2.7**		2.5	U	2.5	U	NA		NA		NA		**7.7**		NA		NA		NA		NA	
86	79																											

BZTO104(e)021802

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		BR55H		CB49A		CK77C		CT37A		DE68A		DM52J		DW29A		ED16G		EM75E		ER92A		EZ03M		FF88E		FL41B		FU45A	
5		5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03		5/7/03		8/28/03	
63	**PRIORITY POLLUTANT**																												
64	**METALS (mg/L)**																												
65	Arsenic (7060)	**0.016**		**0.015**		**0.015**		**0.016**		**0.016**		**0.019**		**0.017**		**0.017**		**0.017**		**0.015**		0.05	U	**0.017**		**0.015**		**0.013**	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.016**		0.005	U
67	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.008**		**0.014**		**0.002**	
68	Lead (7421)	**0.001**		0.001	U	**0.002**		0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	**0.002**		**0.002**		0.02	U	**0.005**		**0.006**		**0.001**	
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.01**		**0.03**		0.01	U
70	Zinc (6010)	0.006	U	0.006	U	**0.024**		0.006	U	**0.009**		0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	**0.037**		**0.108**	J	0.006	U
71																													
72	**MAJOR IONS AND CONVENTIONALS**																												
73	Calcium (mg/L) (6010)	NA		NA		NA		**29.4**		**37.4**		**41.0**		**36.2**		**35.4**		NA		NA		NA		**47.7**		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		**10.5**		**13.4**		**15.3**		**13.0**		**13.3**		NA		NA		NA		**18.9**		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		**2.5**		**3.1**		**3.2**		**3.4**		**3.5**		NA		NA		NA		**4.1**		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		**13.0**		**15.6**		**18.8**		**18.8**		**19.4**		NA		NA		NA		**17.6**		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		**160**		NA		NA		NA		**180**		NA		NA		NA		**220**		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		1	U	NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		**160**		NA		NA		NA		**180**		NA		NA		NA		**220**		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**160**		**190**		**210**		**200**		**250**		**250**		**230**		**230**		**260**		**290**		**250**		**240**		**230**		**220**	
81	Chloride (mg/L) (EPA 325.2)	**3.5**		**2.9**		**4.1**		**2.8**		**3.3**		**5.3**		**2.6**		**3.6**		**3.5**		**7.4**		**4.7**		**5.1**		**2.1**		**2.5**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		0.010	U	NA		NA		NA		0.010	U	NA		NA		NA		**0.053**		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		0.010	U	NA		NA		NA		0.010	U	NA		NA		NA		**0.013**		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		0.010	UJ	NA		NA		NA		0.010	U	NA		NA		NA		**0.066**		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		**3.0**		NA		NA		NA		**7.9**		NA		NA		NA		2.5	U	NA		NA	
86																													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR
1															
2															
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		FY64F		0402099-03		0406059-05		0408019-01		0411051-10		0502102-07		P5F0223-01	
5		10/20/03		2/19/04		6/9/04		8/03/04		11/9/04		2/23/05		6/6/05	
63	**PRIORITY POLLUTANT**														
64	**METALS (mg/L)**														
65	Arsenic (7060)	**0.012**		**0.013**		**0.015**		**0.0143**		**0.0136**		**0.0148**		**0.0169**	
66	Chromium (6010)	0.005	U	0.005	U	**0.0148**		**0.0146**		**0.0186**		**0.0091**		0.001	U
67	Copper (6010)	**0.003**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.002	U
68	Lead (7421)	0.001	U	**0.0005**		0.0001	U	**0.000792**		**0.00073**		**0.000786**		0.001	U
69	Nickel (6010)	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.002	U
70	Zinc (6010)	0.006	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.005	U
71															
72	**MAJOR IONS AND CONVENTIONALS**														
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**220**		**203**		**259**		**265**		**225**		**150**		**225**	
81	Chloride (mg/L) (EPA 325.2)	**2.9**		**5.73**		**3.53**		**3.43**		**3.2**		**3.24**		**2.51**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA	
86															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2							Dup of LW7S																					
3			LW7S		LW7S		LW7D		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4			S167M		T176S		T176T		U235W		V208D		W371I		Y314G		Z225R		Z960N		AH27E		AU22F		BB82A		BH75E	
5			4/1/97		7/16/97		7/16/97		10/23/97		1/28/98		5/18/98		8/17/98		11/12/98		2/17/99		5/17/99		9/20/99		12/6/99		2/15/00	
87	80	**FIELD PARAMETERS**																										
88	81	pH (avg)	6.76		6.73		6.74		6.91		6.79		6.35		6.51		6.35		6.84		5.72		6.22		6.13		6.73	
89	82	Temperature (° C) (avg)	13.7		16.2		16.0		15.4		15.2		14.4		16.6		14.1		13.7		14.5		16.3		13.6		15.5	
90	83	Conductivity (um/hos)	278		299		303		310		323		315		308		121		309		293		267		297		296	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		NA		1.35		1.39		2.13		2.09		1.91		2.84		1.20	
92	85																											
93	86	**DIOXINS AND FURANS (ng/L)**																										
94	87	**Method 8290**																										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		BR55H		CB49A		CK77C		CT37A		DE68A		DM52J		DW29A		ED16G		EM75E		ER92A		EZ03M		FF88E		FL41B		FU45A	
5		5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03		5/7/03		8/28/03	
87	**FIELD PARAMETERS**																												
88	pH (avg)	6.52		6.36		5.18		6.46		6.70		6.93		6.60		6.21		6.56		6.66		6.6		6.99		7.1		6.8	
89	Temperature (° C) (avg)	14.5		15.5		14.9		14.2		14.1		15.2		15.1		14.1		15.1		15.5		15.6		14.7		14.4		15.7	
90	Conductivity (um/hos)	263		299		302		300		419		433		378		351		408		364		352		492		320		308	
91	Dissolved oxygen (mg/L) (avg)	0.87		1.66		2.02		2.78		1.37		1.06		3.24		4.55		5.27		1.46		0.41		0		5.9		2.76	
92																													
93	**DIOXINS AND FURANS (ng/L)**																												
94	**Method 8290**																												
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																													
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR
1															
2															
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		FY64F		0402099-03		0406059-05		0408019-01		0411051-10		0502102-07		P5F0223-01	
5		10/20/03		2/19/04		6/9/04		8/03/04		11/9/04		2/23/05		6/6/05	
87	**FIELD PARAMETERS**														
88	pH (avg)	6.77		5.97		5.13		7.68		6.51		6.79		7.13	
89	Temperature (° C) (avg)	15.6		14.6		15.6		16.1		15.8		15.6		15.0	
90	Conductivity (um/hos)	308		300		352		451		285		176		250	
91	Dissolved oxygen (mg/L) (avg)	1.08		1.26		1.23		NM		1.68		0		2.33	
92															
93	**DIOXINS AND FURANS (ng/L)**														
94	**Method 8290**														
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA	
120															
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA	
122															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2							Dup of LW7S																					
3			LW7S		LW7S		LW7D		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4			S167M		T176S		T176T		U235W		V208D		W371I		Y314G		Z225R		Z960N		AH27E		AU22F		BB82A		BH75E	
5			4/1/97		7/16/97		7/16/97		10/23/97		1/28/98		5/18/98		8/17/98		11/12/98		2/17/99		5/17/99		9/20/99		12/6/99		2/15/00	
123		**PAHs (µg/L)**																										
124		**EPA Method SW8270 SIM**																										
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		**4.0**		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		**1.3**		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		BR55H		CB49A		CK77C		CT37A		DE68A		DM52J		DW29A		ED16G		EM75E		ER92A		EZ03M		FF88E		FL41B		FU45A	
5		5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03		5/7/03		8/28/03	
123	**PAHs (µg/L)**																												
124	**EPA Method SW8270 SIM**																												
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR
1															
2															
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		FY64F		0402099-03		0406059-05		0408019-01		0411051-10		0502102-07		P5F0223-01	
5		10/20/03		2/19/04		6/9/04		8/03/04		11/9/04		2/23/05		6/6/05	
123	**PAHs (µg/L)**														
124	**EPA Method SW8270 SIM**														
125	Naphthalene	4.1		NA		**5.73**		**5.83**		**0.503**		**0.591**		0.216	U
126	2-Methylnaphthalene	1.6		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	0.1	U	NA		0.05	U	0.05	U	0.0493	U	0.0501	U	0.0481	U
128	Acenaphthene	0.1	U	NA		0.05	U	**0.05**		0.0493	U	0.0501	U	0.0481	U
129	Fluorene	0.1	U	NA		0.05	U	0.05	U	0.0493	U	0.0501	U	0.0481	U
130	Anthracene	0.1	U	NA		0.05	U	0.05	U	0.0493	U	0.0501	U	0.0481	U
131	Dibenzofuran	0.1	U	NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
2													Dup of LW8S						Dup of LW8S						Dup of LW8S	
3			LW8S		LW8S		LW8S		LW8S		LW8S		Z		LW8S		LW8S		W		LW8S		LW8S		W	
4			AH27K		AU36D		BC30G		9912050-05A		BH96W		BH96V		BR64N		CB68F		CB68H		CL03A		CT67J		CT67I	
5			5/17/99		9/21/99		12/8/99		12/8/1999 (d)		2/16/00		2/16/00		5/25/00		8/30/00		8/30/00		11/9/00		2/15/01		2/15/01	
7	1	**CHLORINATED PHENOLS (µg/L)**																								
8	2	**EPA Method SW8040**																								
9	3	Pentachlorophenol	0.25	U	0.25	U	**1.2**		NA		**0.13**	J1,J2	**0.27**	J2	**0.51**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		**0.14**	J1	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	**0.21**	J1	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA	
16	10																									
17	11	**SEMIVOLATILES (µg/L)**																								
18	12	**EPA Method SW8270**																								
19	13	Phenol	**2.7**		2.0	U	2.0	U	NA		**3.1**		2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
20	14	4-Methylphenol	**32**		1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	NA		3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	NA		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
24	18	Naphthalene	**99**		**74**		**120**		NA		**55**		**54**		**70**		**40**		**38**		**4.3**		**6.7**		**6.4**	
25	19	2-Methylnaphthalene	**76**		**58**		**72**		NA		**71**		**73**		**77**		**30**		**30**		**4.7**		**7.0**		**6.8**	
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	**6.9**		5.0	U	**5.8**		5.0	U	5.0	U	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	**6.8**		NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
33	27																									
34	28	**VOLATILES (µg/L)**																								
35	29	**EPA Method SW8260**																								
36	30	Acetone	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	12	J2	5.0	U	5.0	U	5.0	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	**11**		5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**12**		5.0	U	5.0	U
39	33	Benzene	**110**		**55**		**49**		NA		**62**		**60**		**77**		**29**		**29**		**5.0**		**9.1**		**9.1**	
40	34	Bromoform	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
42	36	Ethylbenzene	**180**		**160**		**170**		NA		**110**		**98**		**140**		**130**		**120**		**8.5**		**22**		**23**	
43	37	Styrene	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	**290**		**320**		**260**		NA		**160**		**130**		**180**		**200**		**200**		**2.2**		**4.7**		**5.0**	
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
46	40	1,3,5-Trimethylbenzene	**62**		**120**		**100**		NA		**57**	J2	**45**	J2	**52**		**81**		**81**		1.0	U	**4.1**		**5.0**	
47	41	1,2,4-Trimethylbenzene	**280**		**180**		**180**		NA		**140**		**120**		**130**		**130**		**120**		**2.6**		**6.4**		**7.1**	
48	42	Isopropylbenzene	**290**		**130**		**160**		NA		**190**		**180**		**250**		**120**		**120**		**100**		**100**		**130**	
49	43	n-Propylbenzene	**190**		**110**		**140**		NA		**150**		**150**		**170**		**100**		**98**		**56**		**83**		**100**	
50	44	tert-Butylbenzene	**5.7**		**5.6**		**6.6**		NA		**8.8**		**8.7**		**7.3**		**5.5**		**5.5**		**4.9**		**5.7**		**6.2**	
51	45	sec-Butylbenzene	**22**		**23**		**25**		NA		**30**		**29**		**28**		**20**		20		**11**		**14**		**15**	
52	46	4-Isopropyltoluene	**5.1**		**10**		**5.4**		NA		**4.2**		**3.4**		**3.9**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
53	47	n-Butylbenzene	**12**		**18**		16	U	NA		**15**		**14**		**15**		**14**		13		**4.1**		**6.8**		**7.1**	
54	48	Naphthalene	**150**		**120**		**160**		NA		**180**		**160**		**150**		**110**		**100**		**6.6**		**19**		**20**	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																									
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	51	**Method OR-DEQ**																								
59	52	**TPH-Diesel**	**1.9**		**2.1**		**2.0**		NA		**2.2**	J2	**3.2**	J2	**2.6**		**1.6**		**1.6**		**2.3**		**3.4**		**3.2**	
60	53	**TPH-D Motor Oil**	0.50	U	0.50	U	0.50	U	NA		0.50	UJ	**1.3**	J2	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
61	54	**TPH-Gasoline**	**9.8**		**9.4**		**10**		NA		**9.5**		**10**		**15**		**13**		**13**		**3.9**		**4.6**		**4.9**	
62	55																									

BZTO104(e)021811

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
2								Dup of LW8S								Dup of LW8S								Dup of LW8S			
3		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S		X		LW8S	
4		DE68N		DM30J		ED23J		ED23K		EM85G		ER92E		EZ17G		EZ17A		FF65C		FL58B		FU45I		FU45H		FY64L	
5		6/4/01		8/14/01		2/26/02		2/26/02		6/26/02		08/26/02		11/13/02		11/13/02		2/11/03		5/8/03		8/28/03		8/28/03		10/21/03	
7	**CHLORINATED PHENOLS (µg/L)**																										
8	**EPA Method SW8040**																										
9	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.27	U	0.25	U	0.25	U	1.2	U	0.26	U	**2.1**	J	**6.3**	J	0.55	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																											
17	**SEMIVOLATILES (µg/L)**																										
18	**EPA Method SW8270**																										
19	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.2	U	2.3	U	2.3	U	2	U	2	UJ	2	U	2.1	U	2.2	U
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1.1	U	1	U	1	UJ	1	U	1.1	U	1.1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1.1	U	1	U	1	UJ	1	U	1.1	U	1.1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.3	U	3.5	U	3.4	U	3	U	3.1	UJ	3.1	U	3.2	U	3.3	U
23	Benzoic Acid	10	U	10	U	50	U	50	U	50	U	54	U	58	U	57	U	50	U	51	UJ	51	U	53	U	11	U
24	Naphthalene	**22**		**2.3**		**54**		**57**		**57**		**62**		**11**		**11**		**44**		**24**	J	**39**		**40**		**2.2**	
25	2-Methylnaphthalene	**14**		**2.6**		**69**		**74**		**51**		**44**		**22**		**25**		**47**		**49**	J	**31**		**34**		**3.1**	
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.4	U	5.8	U	5.7	U	5	U	5.1	UJ	5.1	U	5.3	U	5.5	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.4	U	5.8	U	5.7	U	5	U	5.1	UJ	5.1	U	5.3	U	5.5	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1.1	U	1	U	1	UJ	1	U	1.1	U	1.1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1.1	U	1	U	1	UJ	1	U	1.1	U	1.1	U
30	Fluorene	1.0	U	1.0	U	**1.3**		**1.2**		1.0	U	1.1	U	1.2	U	1.1	U	1	U	1	UJ	2	U	1.6	U	1.1	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.4	U	5.8	U	5.7	U	5	U	5.1	UJ	5.1	U	5.3	U	5.5	U
32	bis(2-Ethylhexyl)phthalate	**1.5**		1.0	U	**5.0**		4.0	U	4.0	U	4.3	U	4.7	U	4.5	U	1	U	1	UJ	1	U	1.1	U	1.1	U
33																											
34	**VOLATILES (µg/L)**																										
35	**EPA Method SW8260**																										
36	Acetone	5.0	U	8.2	U	5.0	U	5.0	U	**14**	M	15	U	**7.2**		**7.4**	M	**7.7**		**21**	M	**16**	J	5	U	5	U
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U	1	U	1	U	3	U	3	U	1	U	1	U
38	2-Butanone	5.0	U	5.3	U	5.0	U	5.0	U	5.9	U	15	U	5	U	5	U	5	U	15	U	15	U	5	U	5	U
39	Benzene	**9.0**		**2.0**		**30**		**30**		**91**	J	**35**		**2.5**		**2.4**		**15**		**31**		**19**		**23**		1	U
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U	1	U	1	U	3	U	3	U	1	U	1	U
41	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U	1	U	1	U	3	U	3	U	1	U	1	U
42	Ethylbenzene	**61**		**11**		**420**	J	**390**		**300**	J	**280**		**37**		**33**		**240**		**270**		**180**		**220**		**7.2**	
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U	1	U	1	U	3	U	3	U	1	U	1	U
44	m,p-Xylene	**17**		1.0	U	**56**		**60**		**44**	J	**37**		**1**		1	U	**4.6**		**8.2**		**11**	J	**15**	J	1	U
45	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U	1	U	1	U	3	U	3	U	1	U	1	U
46	1,3,5-Trimethylbenzene	**15**		**1.7**		**62**		**64**		**67**	J	**68**		**7.7**		**6.3**		**9.1**		**9.6**		**13**	J	**16**	J	1	U
47	1,2,4-Trimethylbenzene	**23**		**1.8**		**130**		**140**		**150**	J	**170**		**13**		**11**		**23**		**29**		**28**	J	**36**	J	1	U
48	Isopropylbenzene	**130**		**67**		**240**	J	**240**		**260**	J	**240**		**180**		**170**		**240**		**340**		**260**		**280**		**140**	
49	n-Propylbenzene	**110**		**40**		**210**	J	**210**		**250**	J	**220**		**160**		**150**		**200**		**260**		**230**		**260**		**94**	
50	tert-Butylbenzene	**6.0**		**4.7**		**10**		**10**		**12**	MJ	**8.4**		**7.6**		**7.1**		**9.4**		**12**		**9.1**		**10**		**7.4**	
51	sec-Butylbenzene	**16**		**8.7**		**31**		**32**		**40**	J	**24**		**24**		**23**		**29**		**33**		**28**		**32**		**19**	
52	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U	1	U	1	U	3	U	3	U	**2**		1	U
53	n-Butylbenzene	8.0	U	**3.2**	M	**18**		**18**		**20**	MJ	**16**	M	**14**	M	**13**	M	**13**	M	**14**		**14**		**16**		**9**	
54	Naphthalene	**35**		5.0	U	**180**		**100**		**140**		**150**		**19**		**17**		**76**		**51**		**83**		**120**		5	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																											
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	**Method OR-DEQ**																										
59	**TPH-Diesel**	**4.4**		**4.0**		**7.1**		**7.6**		**4.0**		**4.5**		**4.3**		**4.2**		**11**		**7.4**		**4.3**		**4.2**		**3.5**	
60	**TPH-D Motor Oil**	0.50	U	2.5	U	0.50	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
61	**TPH-Gasoline**	**4.7**		**3.9**		**12**	J	**12**		**11**		**10**		**7.8**		**8.6**		**9.8**		**9.5**	J	**7.4**		**7.5**		**4.6**	
62																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1															
2						Dup of LW8S									
3		LW8S		LW8S		X		LW8S		LW8S		LW8S		LW8S	
4		0402113-09		0406059-07		0406059-06		0408036-02		0411051-09		0502087-12		P5F0668-01	
5		2/23/04		6/9/04		6/9/04		8/05/04		11/9/04		2/18/05		6/14/05	
6															
7	**CHLORINATED PHENOLS (µg/L)**														
8	**EPA Method SW8040**														
9	Pentachlorophenol	0.504	U	0.517	U	0.491	U	0.5	U	0.525	U	0.484	UJ	4.81	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
16															
17	**SEMIVOLATILES (µg/L)**														
18	**EPA Method SW8270**														
19	Phenol	2.06	U	2.08	U	1.99	U	2	U	2.01	U	1.95	U	5.00	U
20	4-Methylphenol	10.3	U	10.4	U	9.94	U	10	U	10.1	U	9.77	U	5.00	U
21	Isophorone	1.03	U	1.04	U	0.994	U	1	U	1.01	U	0.977	U	5.00	U
22	2,4-Dimethylphenol	3.1	U	3.12	U	2.98	U	3	U	3.02	U	2.93	U	10.00	U
23	Benzoic Acid	20.6	U	20.8	U	19.9	U	20	U	20.1	U	19.5	U	50.0	U
24	Naphthalene	**15.2**		**25.4**		**29.2**		**6.7**		1.01	U	**20.7**		**34.5**	
25	2-Methylnaphthalene	**20.3**		**19.6**		**22.1**		**6.88**		1.01	U	**10.4**		11.0	U
26	2,4,6-Trichlorophenol	5.16	U	5.21	U	4.97	U	5	U	5.04	U	4.88	U	5.00	U
27	2,4,5-Trichlorophenol	5.16	U	5.21	U	4.97	U	5	U	5.04	U	4.88	U	5.00	U
28	Acenaphthene	1.03	U	1.04	U	0.994	U	1	U	1.01	U	0.977	U	5.00	U
29	Dibenzofuran	1.03	U	1.04	U	0.994	U	1	U	1.01	U	0.977	U	5.00	U
30	Fluorene	1.03	U	1.04	U	0.994	U	1	U	1.01	U	0.977	U	5.00	U
31	Pentachlorophenol	5.16	U	5.21	U	4.97	U	5	U	5.04	U	4.88	U	10	U
32	bis(2-Ethylhexyl)phthalate	1.03	U	1.04	U	0.994	U	1	U	1.01	U	0.977	U	10.00	U
33															
34	**VOLATILES (µg/L)**														
35	**EPA Method SW8260**														
36	Acetone	50	U	50	U	50	U	50	U	50	U	50	U	50.0	U
37	Carbon Disulfide	2	U	2	U	2	U	2	U	2	U	2	U	20.0	U
38	2-Butanone	10	U	10	U	10	U	10	U	**45.8**		10	U	20.0	U
39	Benzene	**5.11**		**9.45**		**9.52**		**1.86**		**0.59**		**2.86**		2.00	U
40	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
41	Toluene	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
42	Ethylbenzene	**184**		**272**	J	**204**	J	**17.9**		**3.7**		**68.2**		**86**	
43	Styrene	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
44	m,p-Xylene	2	U	2	U	2	U	**2.31**		2	U	2	U	4.00	U
45	o-Xylene	1	U	1	U	1	U	**1.21**		1	U	1	U	2.00	U
46	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
47	1,2,4-Trimethylbenzene	1	U	1	U	1	U	**3.74**		1	U	1	U	2.00	U
48	Isopropylbenzene	**239**		**244**		**215**		**232**		**52.4**		**225**		**158**	
49	n-Propylbenzene	**205**		**275**		**228**		**183**		**93.2**		**259**		**120**	
50	tert-Butylbenzene	**6.52**		**8.3**		**8.1**		**8.83**		**6.74**		**12.2**		**6.4**	
51	sec-Butylbenzene	**23.1**		**29.8**		**29.5**		**25.6**		**18.5**		**36.5**		**14.1**	
52	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U	1	U	4.00	U
53	n-Butylbenzene	**8.07**		**10.2**		**9.5**		**10.1**		**7.05**		**16.2**		10.00	U
54	Naphthalene	**24.5**		**51.7**		**46.6**		**16.7**		1	U	**54.2**		**26.5**	
55	Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
56															
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**														
58	**Method OR-DEQ**														
59	**TPH-Diesel**	**11.7**		**8.52**		**8.36**		**5.15**		**4.11**		**7.97**		**1.35**	
60	**TPH-D Motor Oil**	0.504	U	0.496	U	0.506	U	0.488	U	0.484	U	0.482	U	0.5	U
61	**TPH-Gasoline**	**9.2**		**8.62**		**8.37**		**4.44**		**4.37**		**6.16**		**2.59**	
62															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2													Dup of LW8S						Dup of LW8S						Dup of LW8S	
3			LW8S		LW8S		LW8S		LW8S		LW8S		Z		LW8S		LW8S		W		LW8S		LW8S		W	
4			AH27K		AU36D		BC30G		9912050-05A		BH96W		BH96V		BR64N		CB68F		CB68H		CL03A		CT67J		CT67I	
5			5/17/99		9/21/99		12/8/99		12/8/1999 (d)		2/16/00		2/16/00		5/25/00		8/30/00		8/30/00		11/9/00		2/15/01		2/15/01	
63	56	**PRIORITY POLLUTANT**																								
64	57	**METALS (mg/L)**																								
65	58	Arsenic (7060)	**0.022**		**0.025**		**0.025**		NA		**0.027**		**0.027**		**0.023**		**0.022**		**0.023**		**0.022**		**0.022**		**0.022**	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	NA		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	60	Copper (6010)	0.002	U	0.002	U	0.002	U	NA		0.002	U	0.002	U	**0.003**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
68	61	Lead (7421)	0.001	U	0.001	U	0.001	U	NA		**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	**0.005**		0.001	U	0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	NA		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	0.008	U	**0.008**		**0.006**		NA		0.006	U	0.006	U	**0.007**		0.006	U	**0.007**		**0.041**		0.006	U	0.006	U
71	64																									
72	65	**MAJOR IONS AND CONVENTIONALS**																								
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**25.5**		**25.6**	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**6.81**		**6.85**	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**2.6**		**2.5**	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**7.52**		**7.55**	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**170**		**160**	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1.0	U	1.0	U
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**170**		**160**	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**220**		**200**		**210**		NA		**190**		**210**		**180**		**210**		**210**		**190**		**220**		**210**	
81	74	Chloride (mg/L) (EPA 325.2)	**5.4**		**4.1**		**4.6**		NA		**4.1**		**3.4**		**3.7**		**2.2**		**2.3**		**4.2**		**3.4**	J2	**4.9**	J
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.010	U	0.010	U
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.051**	J2	**0.035**	J
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.041**		**0.035**	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**2.8**		2.5	U
86	79																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2								Dup of LW8S								Dup of LW8S								Dup of LW8S			
3		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S		X		LW8S	
4		DE68N		DM30J		ED23J		ED23K		EM85G		ER92E		EZ17G		EZ17A		FF65C		FL58B		FU45I		FU45H		FY64L	
5		6/4/01		8/14/01		2/26/02		2/26/02		6/26/02		08/26/02		11/13/02		11/13/02		2/11/03		5/8/03		8/28/03		8/28/03		10/21/03	
63	**PRIORITY POLLUTANT**																										
64	**METALS (mg/L)**																										
65	Arsenic (7060)	**0.024**		**0.028**		**0.027**		**0.030**		**0.025**		**0.028**		0.05	U	0.05	U	**0.024**		**0.026**		**0.021**		**0.024**		**0.021**	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.017**		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.007**	
67	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.029**		0.002	U	0.002	U	**0.004**		0.002	U	0.002	U	**0.002**		**0.007**	
68	Lead (7421)	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.006**		0.02	U	0.02	U	**0.002**		0.001	U	0.001	U	0.001	U	**0.002**	
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.04**		0.01	U	0.01	U	**0.01**		0.01	U	0.01	U	0.01	U	**0.02**	
70	Zinc (6010)	**0.007**		0.006	U	0.006	U	0.006	U	0.006	U	**0.096**		**0.009**		0.006	U	**0.013**		**0.582**		0.006	U	0.006	U	**0.027**	
71																											
72	**MAJOR IONS AND CONVENTIONALS**																										
73	Calcium (mg/L) (6010)	**31.1**		**27.5**		**41.6**		**38.6**		NA		NA		NA		NA		**33.8**		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	**8.18**		**7.58**		**9.98**		**9.30**		NA		NA		NA		NA		**8.4**		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	**2.8**		**2.8**		**4.2**		**4.0**		NA		NA		NA		NA		**3.4**		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	**8.47**		**7.86**		**9.95**		**9.31**		NA		NA		NA		NA		**7.8**		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		**220**		**230**		NA		NA		NA		NA		**190**		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		1.0	U	1.0	U	NA		NA		NA		NA		1	U	NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		**220**		**230**		NA		NA		NA		NA		**190**		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**250**		**200**		**300**		**290**		**240**		**220**		**200**		**200**		**280**		**260**		**250**		**250**		**260**	
81	Chloride (mg/L) (EPA 325.2)	**2.8**		**5.3**		**4.2**		**3.6**		**4.4**		**2.7**		**2.9**		**2.9**		**3.7**		**2.3**		**2.3**		**2.2**		**4.8**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		0.010	U	**0.012**		NA		NA		NA		NA		0.01	U	NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		**0.059**		**0.054**		NA		NA		NA		NA		**0.072**		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		**0.044**	J	**0.066**	J	NA		NA		NA		NA		**0.062**		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		2.5	U	**3.2**		NA		NA		NA		NA		**3.8**		NA		NA		NA		NA	
86																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1															
2						Dup of LW8S									
3		LW8S		LW8S		X		LW8S		LW8S		LW8S		LW8S	
4		0402113-09		0406059-07		0406059-06		0408036-02		0411051-09		0502087-12		P5F0668-01	
5		2/23/04		6/9/04		6/9/04		8/05/04		11/9/04		2/18/05		6/14/05	
63	**PRIORITY POLLUTANT**														
64	**METALS (mg/L)**														
65	Arsenic (7060)	**0.025**		**0.023**		**0.023**		**0.0223**		**0.0239**		**0.0263**		**0.0302**	
66	Chromium (6010)	**0.0064**		**0.0144**		**0.0161**		0.005	U	0.005	U	0.005	U	0.001	U
67	Copper (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.002	U
68	Lead (7421)	**0.0001**		0.0001	U	0.0001	U	0.0001	U	0.00013	U	0.000157	U	0.001	U
69	Nickel (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.0105**	
70	Zinc (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.005	U
71															
72	**MAJOR IONS AND CONVENTIONALS**														
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**263**		**271**		**300**		**709**		**240**		**243**		**308**	
81	Chloride (mg/L) (EPA 325.2)	**3.31**		**2.96**		**3.39**		**3.24**		**3.72**		**1.97**		**2.46**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA	
86															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2													Dup of LW8S						Dup of LW8S						Dup of LW8S	
3			LW8S		LW8S		LW8S		LW8S		LW8S		Z		LW8S		LW8S		W		LW8S		LW8S		W	
4			AH27K		AU36D		BC30G		9912050-05A		BH96W		BH96V		BR64N		CB68F		CB68H		CL03A		CT67J		CT67I	
5			5/17/99		9/21/99		12/8/99		12/8/1999 (d)		2/16/00		2/16/00		5/25/00		8/30/00		8/30/00		11/9/00		2/15/01		2/15/01	
87	80	**FIELD PARAMETERS**																								
88	81	pH (avg)	5.55		6.10		6.28		NM		6.57		6.56		6.44		4.89		4.89		5.74		6.26		6.28	
89	82	Temperature (° C) (avg)	14.0		17.2		13.0		NM		13.2		13.2		13.4		15.2		15.3		14.7		13.6		13.6	
90	83	Conductivity (um/hos)	357		303		328		NM		351		351		354		330		330		352		404		403	
91	84	Dissolved oxygen (mg/L) (avg)	2.14		2.13		2.06		NM		0.83		0.82		1.55		1.12		1.13		0.53		0.57		0.53	
92	85																									
93	86	**DIOXINS AND FURANS (ng/L)**																								
94	87	**Method 8290**																								
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																										
121		**ETHANOL (mg/L)**	NA		NA		NA		10	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
122																										

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2								Dup of LW8S								Dup of LW8S								Dup of LW8S			
3		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S		X		LW8S	
4		DE68N		DM30J		ED23J		ED23K		EM85G		ER92E		EZ17G		EZ17A		FF65C		FL58B		FU45I		FU45H		FY64L	
5		6/4/01		8/14/01		2/26/02		2/26/02		6/26/02		08/26/02		11/13/02		11/13/02		2/11/03		5/8/03		8/28/03		8/28/03		10/21/03	
87	**FIELD PARAMETERS**																										
88	pH (avg)	6.49		6.61		6.37		6.37		6.23		6.42		6.17		6.16		6.74		6.58		6.64		6.65		6.57	
89	Temperature (° C) (avg)	14.4		15.0		13.6		13.6		15.3		16.1		14.7		14.6		15.2		12.9		16.5		16.5		19.0	
90	Conductivity (um/hos)	402		467		489		490		405		330		353		351		503		397		349		348		352	
91	Dissolved oxygen (mg/L) (avg)	1.58		1.85		6.71		6.75		3.92		0.87		1.82		1.94		1.29		3.35		1.61		1.57		1.03	
92																											
93	**DIOXINS AND FURANS (ng/L)**																										
94	**Method 8290**																										
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																											
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1															
2						Dup of LW8S									
3		LW8S		LW8S		X		LW8S		LW8S		LW8S		LW8S	
4		0402113-09		0406059-07		0406059-06		0408036-02		0411051-09		0502087-12		P5F0668-01	
5		2/23/04		6/9/04		6/9/04		8/05/04		11/9/04		2/18/05		6/14/05	
87	**FIELD PARAMETERS**														
88	pH (avg)	6.21		4.87		4.87		5.86		6.43		6.57		6.16	
89	Temperature (° C) (avg)	14.1		14.7		14.7		16.5		15.7		14		15.3	
90	Conductivity (um/hos)	402		368		368		523		343		188		262	
91	Dissolved oxygen (mg/L) (avg)	1.26		0.74		0.74		1.71		1.79		1.26		0	
92															
93	**DIOXINS AND FURANS (ng/L)**														
94	**Method 8290**														
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA	
120															
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA	
122															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2													Dup of LW8S						Dup of LW8S						Dup of LW8S	
3			LW8S		LW8S		LW8S		LW8S		LW8S		Z		LW8S		LW8S		W		LW8S		LW8S		W	
4			AH27K		AU36D		BC30G		9912050-05A		BH96W		BH96V		BR64N		CB68F		CB68H		CL03A		CT67J		CT67I	
5			5/17/99		9/21/99		12/8/99		12/8/1999 (d)		2/16/00		2/16/00		5/25/00		8/30/00		8/30/00		11/9/00		2/15/01		2/15/01	
123		**PAHs (µg/L)**																								
124		**EPA Method SW8270 SIM**																								
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2								Dup of LW8S								Dup of LW8S								Dup of LW8S			
3		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S		X		LW8S	
4		DE68N		DM30J		ED23J		ED23K		EM85G		ER92E		EZ17G		EZ17A		FF65C		FL58B		FU45I		FU45H		FY64L	
5		6/4/01		8/14/01		2/26/02		2/26/02		6/26/02		08/26/02		11/13/02		11/13/02		2/11/03		5/8/03		8/28/03		8/28/03		10/21/03	
123	**PAHs (µg/L)**																										
124	**EPA Method SW8270 SIM**																										
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1															
2						Dup of LW8S									
3		LW8S		LW8S		X		LW8S		LW8S		LW8S		LW8S	
4		0402113-09		0406059-07		0406059-06		0408036-02		0411051-09		0502087-12		P5F0668-01	
5		2/23/04		6/9/04		6/9/04		8/05/04		11/9/04		2/18/05		6/14/05	
123	**PAHs (µg/L)**														
124	**EPA Method SW8270 SIM**														
125	Naphthalene	NA		NA		NA		NA		NA		NA		**21.5**	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		1	U	NA		NA		0.481	U
128	Acenaphthene	NA		NA		NA		NA		NA		NA		0.481	U
129	Fluorene	NA		NA		NA		NA		NA		NA		0.481	U
130	Anthracene	NA		NA		NA		1	U	NA		NA		0.481	U
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																								
3			LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S	
4			AH76O		BC30A		BH96G		BR64K		ED30B		EN00B		FF76B		FL41M		0402113-01		0406073-01		P5F0223-04	
5			5/19/99		12/8/99		2/17/00		5/25/00		2/27/02		6/27/02		2/12/03		5/7/03		2/23/04		6/10/04		6/6/05	
6																								
7	1	**CHLORINATED PHENOLS (µg/L)**																						
8	2	**EPA Method SW8040**																						
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.33**		0.493	U	0.478	U	0.500	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
16	10																							
17	11	**SEMIVOLATILES (µg/L)**																						
18	12	**EPA Method SW8270**																						
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2	U	2	U	1.98	U	NA		5.00	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	9.9	U	NA		5.00	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	0.99	U	NA		5.00	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3	U	3	U	2.97	U	NA		10.00	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	50	U	50	U	50	U	50	U	19.8	U	NA		50.0	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	0.99	U	NA		5.00	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	0.99	U	NA		5.00	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	4.95	U	NA		5.00	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	4.95	U	NA		5.00	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	0.99	U	NA		5.00	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	0.99	U	NA		5.00	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	0.99	U	NA		5.00	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	4.95	U	NA		10	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	**22**		1.0	U	1.0	U	4.0	U	4.0	U	1	U	1	U	0.99	U	NA		10.00	U
33	27																							
34	28	**VOLATILES (µg/L)**																						
35	29	**EPA Method SW8260**																						
36	30	Acetone	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	50	U	NA		25.0	U
37	31	Carbon Disulfide	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	2	U	NA		10.00	U
38	32	2-Butanone	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	10	U	NA		10.00	U
39	33	Benzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	0.4	U	NA		1.00	U
40	34	Bromoform	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA		1.00	U
41	35	Toluene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA		1.00	U
42	36	Ethylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA		1.00	U
43	37	Styrene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA		1.00	U
44	38	m,p-Xylene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	2	U	NA		2.00	U
45	39	o-Xylene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA		1.00	U
46	40	1,3,5-Trimethylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA		1.00	U
47	41	1,2,4-Trimethylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA		1.00	U
48	42	Isopropylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA		2.00	U
49	43	n-Propylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA		1.00	U
50	44	tert-Butylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA		1.00	U
51	45	sec-Butylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA		1.00	U
52	46	4-Isopropyltoluene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA		2.00	U
53	47	n-Butylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA		5.00	U
54	48	Naphthalene	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	1	U	NA		2.00	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		1	U	NA		1.00	U
56	49																							
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																						
58	51	**Method OR-DEQ**																						
59	52	**TPH-Diesel**	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.286	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		0.501	U	NA		0.571	U
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.08	U
62	55																							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																								
3			LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S	
4			AH76O		BC30A		BH96G		BR64K		ED30B		EN00B		FF76B		FL41M		0402113-01		0406073-01		P5F0223-04	
5			5/19/99		12/8/99		2/17/00		5/25/00		2/27/02		6/27/02		2/12/03		5/7/03		2/23/04		6/10/04		6/6/05	
63	56	**PRIORITY POLLUTANT**																						
64	57	**METALS (mg/L)**																						
65	58	Arsenic (7060)	0.001	U	NA		**0.004**		**0.001**		**0.002**		**0.001**		0.001	U	0.001	U	0.001	U	NA		0.001	U
66	59	Chromium (6010)	0.005	U	NA		0.005	U	0.005	U	0.005	U	**0.007**		0.005	U	0.005	U	0.005	U	NA		0.001	U
67	60	Copper (6010)	0.002	U	NA		**0.004**		0.002	U	0.002	U	**0.012**		**0.003**		0.002	U	0.01	U	NA		**0.00348**	
68	61	Lead (7421)	0.001	U	NA		**0.003**		**0.001**		**0.001**		**0.001**		0.001	U	0.001	U	**0.0004**		NA		0.001	U
69	62	Nickel (6010)	0.01	U	NA		0.01	U	0.01	U	0.01	U	**0.02**		0.01	U	0.01	U	0.005	U	NA		**0.0075**	
70	63	Zinc (6010)	**0.004**		NA		**0.016**		**0.007**		**0.008**	J	**0.043**		**0.01**		0.006	U	0.01	U	NA		0.005	U
71	64																							
72	65	**MAJOR IONS AND CONVENTIONALS**																						
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		**11.1**		**26.2**		**9.5**		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		**3.27**		**9.50**		**2.58**		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		**2.5**		**3.9**		**2.5**		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		**5.27**		**8.31**		**6**		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		**34**		NA		**36**		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		1.0	U	NA		1	U	NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		**34**		NA		**36**		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**84**		NA		**100**		**90**		**100**		**120**		**74**		**74**		**81**		NA		**108**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.3**		NA		**3.2**		**2.2**		**1.4**	J	**2.3**		**1.2**		**1.6**		**1.04**		NA		**1.21**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		**3.4**		NA		**2.1**		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		**0.014**		NA		0.01	U	NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		**3.4**		NA		**2.1**		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		**12**		NA		**5.6**		NA		NA		NA		NA	
86	79																							

BZTO104(e)021824

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																								
3			LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S	
4			AH76O		BC30A		BH96G		BR64K		ED30B		EN00B		FF76B		FL41M		0402113-01		0406073-01		P5F0223-04	
5			5/19/99		12/8/99		2/17/00		5/25/00		2/27/02		6/27/02		2/12/03		5/7/03		2/23/04		6/10/04		6/6/05	
87	80	**FIELD PARAMETERS**																						
88	81	pH (avg)	6.01		NM		6.66		6.45		6.09		6.44		7.19		6.78		6.17		NA		7.30	
89	82	Temperature (° C) (avg)	13.6		NM		13.4		13.0		12.6		14.3		11.9		13		13.9		NA		14.6	
90	83	Conductivity (um/hos)	93		NM		111		129		109		149		110		88		75		NA		85	
91	84	Dissolved oxygen (mg/L) (avg)	5.76		NM		2.87		4.30		8.85		7.22		7.33		9.77		6.53		NA		6.67	
92	85																							
93	86	**DIOXINS AND FURANS (ng/L)**																						
94	87	**Method 8290**																						
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																								
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																								

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																								
3			LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S	
4			AH76O		BC30A		BH96G		BR64K		ED30B		EN00B		FF76B		FL41M		0402113-01		0406073-01		P5F0223-04	
5			5/19/99		12/8/99		2/17/00		5/25/00		2/27/02		6/27/02		2/12/03		5/7/03		2/23/04		6/10/04		6/6/05	
123		**PAHs (µg/L)**																						
124		**EPA Method SW8270 SIM**																						
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2					Dup of LW11S												Dup of LW11S									
3			LW11S		LW110S		LW11S		LW11S		LW11S		LW11S		LW11S		X		LW11S		LW11S		LW11S		LW11S	
4			AH76E		AH76D		AU36F		BC27J		9912050-06A		BH96U		BR55L		BR55K		CB49J		CK77K		CT55H		DE68M	
5			5/20/99		5/20/99		9/21/99		12/8/99		12/8/1999 (d)		2/17/00		5/23/00		5/23/00		8/28/00		11/8/00		2/14/01		6/4/01	
6																										
7	1	**CHLORINATED PHENOLS (µg/L)**																								
8	2	**EPA Method SW8040**																								
9	3	Pentachlorophenol	**15000**		**15000**		**9400**		**7200**		NA		**9700**		**7700**	J2	**7600**	J2	**3900**		NA		**320**	J	NA	
10	4	2,4,6-Trichlorophenol	**2.9**		**2.8**		**1.3**		**1.0**		NA		**1.8**		**1.4**		**1.2**		**0.68**		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	**0.13**	J1	0.25	U	0.25	U	**0.12**	J1	NA		**0.13**	J1	0.25	U	0.25	U	0.25	U	NA		NA		NA	
12	6	2,4,5-Trichlorophenol	1.0	U	0.25	U	**0.32**		0.25	U	NA		**0.61**		**0.96**		**0.95**		0.72	U	NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.32	U	NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**750**		**750**		**450**		**360**		NA		**560**		**940**		**850**		**250**		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	**7.5**		**6.8**		**3.7**		**2.4**		NA		**6.2**		**4.2**		**4.4**		**2.5**		NA		NA		NA	
16	10																									
17	11	**SEMIVOLATILES (µg/L)**																								
18	12	**EPA Method SW8270**																								
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	NA		2.0	U	2.0	U	2.0	U	2.0	U	NA		**10**		**2.6**	
20	14	4-Methylphenol	**3.5**	M	**2.8**	M	1.0	U	**1.4**	MJ1	NA		1.0	U	1.0	U	1.0	U	**3.5**		NA		**3.7**		**2.3**	
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	NA		3.0	U	3.0	U	3.0	U	3.0	U	NA		3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	NA		10	U	10	U	10	U	10	U	NA		10	U	10	U
24	18	Naphthalene	**41**		**38**		**20**		**12**		NA		**23**		**22**		**20**		**13**		NA		**5.7**		**3.1**	
25	19	2-Methylnaphthalene	**14**		**13**		**8.9**		**5.7**		NA		**9.0**		**9.0**		**9.4**		**4.9**		NA		**3.9**		**2.0**	
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U
31	25	Pentachlorophenol	**24000**		**20000**		**8000**		**5400**		NA		**11000**		**6800**	J2	**6500**	J2	**3600**		NA		**460**	J	**560**	
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	**0.8**	J1	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U
33	27																									
34	28	**VOLATILES (µg/L)**																								
35	29	**EPA Method SW8260**																								
36	30	Acetone	**18**		**21**		5.0	U	**29**		NA		11	U	9.8	U	5.0	U	**11**		NA			R	**17**	
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		2.0	U	1.0	U
38	32	2-Butanone	**6.1**		**6.3**		**27**		5.0	U	NA		**40**	M	5.0	U	5.0	U	5.0	U	NA		10	U	5.0	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		2.0	U	**1.7**	
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		2.0	U	1.0	U
41	35	Toluene	**51**		**48**		**23**		**14**		NA		**17**		**37**		**36**		**15**		NA		**2.4**		**5.3**	
42	36	Ethylbenzene	**160**		**150**		**86**		**54**		NA		**75**		**110**		**110**		**69**		NA		**24**		**33**	
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		2.0	U	1.0	U
44	38	m,p-Xylene	**360**		**350**		**160**		**96**		NA		**140**		**220**		**210**		**120**		NA		**53**		**57**	
45	39	o-Xylene	**300**		**290**		**170**		**96**		NA		**130**		**240**		**210**		**120**		NA		**40**		**50**	
46	40	1,3,5-Trimethylbenzene	**100**		**92**		**68**		**43**		NA		**62**		**88**		**89**		**53**		NA		**48**		**32**	
47	41	1,2,4-Trimethylbenzene	**410**		**430**		**180**		**130**		NA		**200**		**370**		**320**		**180**		NA		**150**		**120**	
48	42	Isopropylbenzene	**50**	J2	**40**	J2	**27**		**18**		NA		**27**		**40**		**38**		**22**		NA		**13**		**12**	
49	43	n-Propylbenzene	**66**		**56**		**40**		**26**		NA		**42**		**53**		**52**		**32**		NA		**24**		**21**	
50	44	tert-Butylbenzene	**2.8**		**2.3**		1.0	U	1.0	U	NA		**1.9**	M	2.3	U	2.2	U	**1.5**	M	NA		2.0	U	**1.3**	M
51	45	sec-Butylbenzene	**15**		**13**		**10**		**9.1**		NA		**14**		**14**		**13**		**8.8**		NA		**7.5**		**7.3**	
52	46	4-Isopropyltoluene	**11**		**9.9**		1.0	U	1.0	U	NA		**10**		**9.8**		**9.4**		**5.9**		NA		**7.1**		**6.6**	
53	47	n-Butylbenzene	**12**		**10**		**8.0**		5.3	U	NA		**11**		10	U	9.9	U	**7.0**	M	NA		**8.4**	M	7.6	U
54	48	Naphthalene	**46**		**38**		**19**		**15**		NA		**25**		**45**		**44**		**22**		NA		10	U	**11**	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																									
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	51	**Method OR-DEQ**																								
59	52	**TPH-Diesel**	**14**		**13**		**10**		**8.8**		NA		**12**		**10**		**9.6**		**5.9**		NA		**2.2**		**1.7**	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		**1.1**		**0.50**		**0.77**		NA		NA		0.50	U	0.50	U
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		**11**		**24**		**20**		**14**		NA		**4.8**		**2.9**	
62	55																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX
2										Dup of LW11S						Dup of LW11S									
3		LW11S		LW11S		LW11S		LW11S		OX005S		LW11S		LW11S		X		LW11S		LW11S		LW11S		LW11S	
4		ED34D		EM66C		ES04D		EX87C		EX87A		EZ03I		FF76H		FF76L		FL58H		FU45D		FY72I		0402086-06	
5		2/28/02		6/24/02		08/28/02		10/29/02		10/29/02		11/12/02		2/12/03		2/12/03		5/8/03		8/28/03		10/22/03		2/18/04	
7	**CHLORINATED PHENOLS (µg/L)**																								
8	**EPA Method SW8040**																								
9	Pentachlorophenol	NA		NA		NA		**3600**		**3700**		NA		NA		NA		NA		NA		NA		NA	
10	2,4,6-Trichlorophenol	NA		NA		NA		**1.3**		**1.3**		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		**0.4**		**0.37**		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		0.58	U	0.6	U	NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		0.25	U	0.29	U	NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		**380**		**380**		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		**3.2**	J	**4.2**	J	NA		NA		NA		NA		NA		NA		NA	
16																									
17	**SEMIVOLATILES (µg/L)**																								
18	**EPA Method SW8270**																								
19	Phenol	2.0	U	2.0	U	2.2	U	NA		NA		2.2	U	2	U	2	U	2	U	2.1	U	2	U	1.96	U
20	4-Methylphenol	**1.9**		**1.0**		1.1	U	NA		NA		1.1	U	**1.2**	M	**1.3**	M	**5.4**		1.1	U	1	U	9.8	U
21	Isophorone	1.0	U	1.0	U	1.1	U	NA		NA		1.1	U	1	U	1	U	1	U	1.1	U	1	U	0.98	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.3	U	NA		NA		3.3	U	3.1	U	3.1	U	3	U	3.2	U	3	U	2.94	U
23	Benzoic Acid	50	U	50	U	54	U	NA		NA		56	U	51	U	51	U	50	U	53	U	10	U	19.6	U
24	Naphthalene	**5.3**		**6.7**		**4.9**		NA		NA		**4.7**		**4.9**		**5.1**		**10**		**5.6**		**3.2**		**9.22**	
25	2-Methylnaphthalene	**1.7**		**2.6**		**1.7**		NA		NA		**2.8**		**3.6**		**3.7**		**4.5**		**3.7**		**2.9**		**4.2**	
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.4	U	NA		NA		5.6	U	5.1	U	5.1	U	5	U	**8.3**	M	5.1	U	4.9	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.4	U	NA		NA		5.6	U	5.1	U	5.1	U	5	U	5.3	U	5.1	U	4.9	U
28	Acenaphthene	1.0	U	1.0	U	1.1	U	NA		NA		1.1	U	1	U	1	U	1	U	1.1	U	1	U	0.98	U
29	Dibenzofuran	1.0	U	1.0	U	1.1	U	NA		NA		1.1	U	1	U	1	U	1	U	1.1	U	1	U	0.98	U
30	Fluorene	1.0	U	1.0	U	1.1	U	NA		NA		1.1	U	1	U	1	U	1	U	1.1	U	1	U	0.98	U
31	Pentachlorophenol	**4700**		**4000**		**2600**		NA		NA		**2200**		**1600**	J	**2000**	J	**3800**		**1700**		**900**		**6350**	
32	bis(2-Ethylhexyl)phthalate	4.0	U	4.0	U	4.3	U	NA		NA		4.4	U	1	U	1	U	1	U	1.1	U	1	U	0.98	U
33																									
34	**VOLATILES (µg/L)**																								
35	**EPA Method SW8260**																								
36	Acetone	**28**		5.0	U	11	UJ	**99**	M	**110**		**46**	M	**18**	M	**22**	M	**23**	M	**10**	MJ	**7**	M	50	UJ
37	Carbon Disulfide	1.0	U	1.0	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	2	UJ
38	2-Butanone	**13**		5.0	U	**23**	J	**12**		**14**		**7.4**		5	U	5	U	5	U	**9.5**	M	**7.5**	M	10	UJ
39	Benzene	**6.6**		**12**		**9.1**		**2.9**		**2.6**		**2.7**		**11**	J	**14**	J	**18**		**5.4**		**2.1**		**30.3**	J
40	Bromoform	1.0	U	1.0	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ
41	Toluene	**9.1**		**10**		**3.6**	J	**3**		**2.8**		**1.3**		**3.9**	J	**4.8**	J	**6.4**		**1.2**		1	U	1	UJ
42	Ethylbenzene	**36**		**56**		**44**		**56**		**55**		**25**		**34**		**39**		**75**		**29**		**14**		**71.6**	J
43	Styrene	1.0	U	1.0	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	UJ
44	m,p-Xylene	**71**		**100**		**69**	J	**67**		**67**		**26**		**52**		**62**		**120**		**48**	J	**20**		**61.6**	J
45	o-Xylene	**77**		**94**		**68**	J	**88**		**83**		**37**		**48**		**55**		**130**		**50**		**23**		**123**	J
46	1,3,5-Trimethylbenzene	**29**		**35**		**28**		**28**	J	**22**	J	**8.3**		**16**		**19**		**46**		**28**		**16**		**34.8**	J
47	1,2,4-Trimethylbenzene	**140**		**150**		**120**		**160**		**150**		**84**		**95**		**110**		**210**		**120**	J	**73**		**160**	J
48	Isopropylbenzene	**14**		**16**		**16**		**22**		**18**		**10**		**12**		**14**		**27**		**15**		**7.6**		**15.9**	J
49	n-Propylbenzene	**20**		**24**		**24**		**31**		**27**		**15**		**20**		**23**		**37**		**20**		**13**		**18.6**	J
50	tert-Butylbenzene	**1.4**		**2.8**	J	**1.8**		**2**		**1.8**		**1.3**	M	**1.5**	M	**1.6**	M	**2.4**		**1.6**		**1**		1	UJ
51	sec-Butylbenzene	**6.9**		**7.4**		**5.8**		**10**		**9.3**		**5.6**		**7.4**		**7.8**		**11**		**7.9**		**4.7**		**7.19**	J
52	4-Isopropyltoluene	**3.9**		**6.0**		**5.8**	J	**7**		**6.4**		**3.2**		**5.2**		**5.8**		**7.4**		**4.6**		**3.2**		**4.32**	J
53	n-Butylbenzene	**4.1**		5.0	U	**6.8**	M	**7.6**	M	**7.2**	M	**3.8**	M	**6**	M	**6.6**	M	**8.2**		**5.2**		**3.7**	M	**3.41**	J
54	Naphthalene	**12**		**17**		**15**	J	**22**		**19**		**7.8**		**10**		**12**		**22**		**9.4**		5	U	**15.1**	J
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																									
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	**Method OR-DEQ**																								
59	**TPH-Diesel**	**7.4**		**8.0**		**7.9**		NA		NA		**4.7**		**4.5**		**4.4**		**8.6**		**4**		**2.3**		**3.07**	
60	**TPH-D Motor Oil**	0.50	U	0.50	U	0.5	U	NA		NA		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**0.573**	
61	**TPH-Gasoline**	8.9		**9.7**		**7.3**		NA		NA		**6.1**		**7.1**		**7.7**		**8.6**	J	**4.8**		**2.8**		**6.8**	
62																									

BZTO104(e)021828

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
1											
2											
3		LW11S		LW11S		LW11S		LW11S		LW11S	
4		0406074-09		0408035-01		0411066-09		0502087-02		P5F0223-02	
5		6/10/04		8/05/04		11/11/04		2/17/05		6/6/05	
6											
7	**CHLORINATED PHENOLS (µg/L)**										
8	**EPA Method SW8040**										
9	Pentachlorophenol	NA		NA		NA		NA		NA	
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16											
17	**SEMIVOLATILES (µg/L)**										
18	**EPA Method SW8270**										
19	Phenol	2.03	U	2	U	1.94	U	2.01	U	20.0	U
20	4-Methylphenol	10.2	U	10	U	9.72	U	10.1	U	20.0	U
21	Isophorone	1.02	U	1	U	0.972	U	1.01	U	20.0	U
22	2,4-Dimethylphenol	3.05	U	3	U	2.92	U	**3.36**		40.0	U
23	Benzoic Acid	20.3	U	20	U	19.4	U	20.1	U	200	U
24	Naphthalene	**3.55**		**7.81**		**2.24**		**5.65**		20.0	U
25	2-Methylnaphthalene	**2.07**		**3.81**		**1.86**		**3.22**		20.0	U
26	2,4,6-Trichlorophenol	5.09	U	5	U	4.86	U	5.03	U	20.0	U
27	2,4,5-Trichlorophenol	5.09	U	5	U	4.86	U	5.03	U	20.0	U
28	Acenaphthene	1.02	U	1	U	0.972	U	1.01	U	20.0	U
29	Dibenzofuran	1.02	U	1	U	0.972	U	1.01	U	20.0	U
30	Fluorene	1.02	U	1	U	0.972	U	1.01	U	20.0	U
31	Pentachlorophenol	**2130**		**604**		**184**		**178**		**545**	
32	bis(2-Ethylhexyl)phthalate	1.02	U	1	U	0.972	U	1.01	U	40.0	U
33											
34	**VOLATILES (µg/L)**										
35	**EPA Method SW8260**										
36	Acetone	50	U	**54**	J	50	U	50	U	25.0	U
37	Carbon Disulfide	2	U	2	U	2	U	2	U	10.00	U
38	2-Butanone	**11.6**		**13**	J	10	U	10	U	10.00	U
39	Benzene	**11.6**		**9.79**	J	**2.38**		**9.91**		**6.80**	
40	Bromoform	1	U	1	U	1	U	1	U	1.00	U
41	Toluene	1	U	1	U	1	U	**1.3**		1.00	U
42	Ethylbenzene	**38.6**		**83.1**	J	**21.4**		**47.1**		**22.8**	
43	Styrene	1	U	1	U	1	U	1	U	1.00	U
44	m,p-Xylene	**59**		**126**	J	**30.9**		**73.9**		**25.6**	
45	o-Xylene	**67.8**		**176**	J	**44.2**		**84.1**		**35.9**	
46	1,3,5-Trimethylbenzene	**27.7**		**56.7**	J	**21.6**		**34.5**		**9.50**	
47	1,2,4-Trimethylbenzene	**99.4**		**234**	J	**91.2**		**175**		**62.3**	
48	Isopropylbenzene	**12**		**28.2**	J	**11.1**		**15**		**8.25**	
49	n-Propylbenzene	**18.1**		**30.5**	J	**14.1**		**25.9**		**11.0**	
50	tert-Butylbenzene	**1.16**		**1.55**	J	**1.42**		**3.03**		1.00	U
51	sec-Butylbenzene	**5.49**		**8.97**	J	**5.12**		**10.8**		**3.58**	
52	4-Isopropyltoluene	**3.19**		**6.91**	J	**4.26**		**8.43**		**2.56**	
53	n-Butylbenzene	**2.47**		**5.42**	J	**2.94**		**8.86**		5.00	U
54	Naphthalene	**8.95**		**24.5**	J	**8.69**		**12.9**		**9.06**	
55	Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1.00	U
56											
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	**Method OR-DEQ**										
59	**TPH-Diesel**	NA		NA		NA		**2.72**		**0.364**	
60	**TPH-D Motor Oil**	NA		NA		NA		0.483	U	0.5	U
61	**TPH-Gasoline**	NA		NA		NA		**3.66**		**1.6**	
62											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2					Dup of LW11S												Dup of LW11S									
3			LW11S		LW110S		LW11S		LW11S		LW11S		LW11S		LW11S		X		LW11S		LW11S		LW11S		LW11S	
4			AH76E		AH76D		AU36F		BC27J		9912050-06A		BH96U		BR55L		BR55K		CB49J		CK77K		CT55H		DE68M	
5			5/20/99		5/20/99		9/21/99		12/8/99		12/8/1999 (d)		2/17/00		5/23/00		5/23/00		8/28/00		11/8/00		2/14/01		6/4/01	
63	56	**PRIORITY POLLUTANT**																								
64	57	**METALS (mg/L)**																								
65	58	Arsenic (7060)	**0.007**		**0.008**		**0.006**		**0.007**		NA		**0.007**		**0.008**		**0.008**		**0.007**		NA		**0.007**		**0.007**	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	NA		0.005	U	0.005	U	0.005	U	0.005	U	NA		0.005	U	0.005	U
67	60	Copper (6010)	**0.002**		**0.003**		0.002	U	0.002	U	NA		**0.005**		0.002	U	0.002	U	0.002	U	NA		0.002	U	0.002	U
68	61	Lead (7421)	0.001	U	0.001	U	0.001	U	0.001	U	NA		**0.002**		0.001	U	0.001	U	0.001	U	NA		0.001	U	0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	NA		0.01	U	0.01	U	0.01	U	0.01	U	NA		0.01	U	0.01	U
70	63	Zinc (6010)	**0.010**		**0.010**		0.004	U	0.006	U	NA		**0.011**		0.006	U	0.006	U	0.006	U	NA		0.006	U	0.006	U
71	64																									
72	65	**MAJOR IONS AND CONVENTIONALS**																								
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**20.3**		**28.6**	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**6.41**		**9.34**	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**1.6**		**2.7**	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**4.03**		**6.10**	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**140**		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1.0	U	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**140**		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**230**		**240**		**150**		**200**		NA		**160**		**160**		**170**		**220**		NA		**190**		**190**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.3**		**2.2**		**3.3**		**5.3**		NA		**5.2**		**5.8**	J2	**12**	J2	**6.5**		NA		**3.1**		**3.2**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.010	U	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.010	U	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.010	U	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**5.6**		NA	
86	79																									

BZTO104(e)021830

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX
1																									
2										Dup of LW11S						Dup of LW11S									
3		LW11S		LW11S		LW11S		LW11S		OX005S		LW11S		LW11S		X		LW11S		LW11S		LW11S		LW11S	
4		ED34D		EM66C		ES04D		EX87C		EX87A		EZ03I		FF76H		FF76L		FL58H		FU45D		FY72I		0402086-06	
5		2/28/02		6/24/02		08/28/02		10/29/02		10/29/02		11/12/02		2/12/03		2/12/03		5/8/03		8/28/03		10/22/03		2/18/04	
63	**PRIORITY POLLUTANT**																								
64	**METALS (mg/L)**																								
65	Arsenic (7060)	**0.006**		**0.006**		**0.006**		NA		NA		0.05	U	**0.004**		**0.004**		**0.005**		**0.005**		**0.006**		**0.004**	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	NA		NA		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.0069**	
67	Copper (6010)	**0.003**		0.002	U	0.002	U	NA		NA		0.002	U	0.002	UJ	**0.007**	J	**0.002**		**0.004**		**0.002**		0.01	U
68	Lead (7421)	0.001	U	0.001	U	0.001	U	NA		NA		0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.0002**	
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	NA		NA		**0.12**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.005	U
70	Zinc (6010)	0.006	U	0.006	U	0.006	U	NA		NA		**0.019**		**0.009**		**0.011**		0.006	U	0.006	U	0.006	U	0.01	U
71																									
72	**MAJOR IONS AND CONVENTIONALS**																								
73	Calcium (mg/L) (6010)	**59.0**		NA		NA		NA		NA		NA		**22.5**		**23.1**		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	**18.2**		NA		NA		NA		NA		NA		**7.52**		**7.8**		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	**4.0**		NA		NA		NA		NA		NA		**2.9**		**3**		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	**8.55**		NA		NA		NA		NA		NA		**12.5**		**12.9**		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	**230**		NA		NA		140		**140**		NA		**120**		**120**		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	NA		NA		1	U	1	U	NA		1	U	1	U	NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**230**		NA		NA		140		**140**		NA		**120**		**120**		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**410**		**180**		**160**		NA		NA		**560**		**170**		**160**		**190**		**270**		**240**		**274**	
81	Chloride (mg/L) (EPA 325.2)	**58**		**2.7**		**3.8**		NA		NA		**4.7**		**3.1**		**3**		**4.9**		**3.3**		**4**		**3.13**	
82	N-Nitrate (mg-N/L) (Calculated)	0.010	U	NA		NA		NA		NA		NA		**0.042**	J	**0.031**	J	NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	**0.031**		NA		NA		NA		NA		NA		0.01	U	0.01	U	NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.040**		NA		NA		NA		NA		NA		**0.042**	J	**0.031**	J	NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	**13**		NA		NA		NA		NA		NA		**24**		**26**		NA		NA		NA		NA	
86																									

BZTO104(e)021831

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
1											
2											
3		LW11S		LW11S		LW11S		LW11S		LW11S	
4		0406074-09		0408035-01		0411066-09		0502087-02		P5F0223-02	
5		6/10/04		8/05/04		11/11/04		2/17/05		6/6/05	
63	**PRIORITY POLLUTANT**										
64	**METALS (mg/L)**										
65	Arsenic (7060)	**0.005**		**0.00333**		**0.00394**		**0.00367**		**0.00372**	
66	Chromium (6010)	**0.0173**		**0.0161**		**0.0206**		**0.0065**		0.001	U
67	Copper (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.002	U
68	Lead (7421)	0.0001	U	0.0001	U	**0.00104**		0.000202	U	0.001	U
69	Nickel (6010)	0.005	U	0.005	U	0.005	U	**0.0377**		**0.0916**	
70	Zinc (6010)	0.01	U	0.01	U	0.01	U	**0.0135**		**0.00948**	
71											
72	**MAJOR IONS AND CONVENTIONALS**										
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**389**		**356**		**366**		**295**		**456**	
81	Chloride (mg/L) (EPA 325.2)	**3.92**		**3.59**		**4.83**		**3.69**		**3.27**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

1																									
2				Dup of LW11S												Dup of LW11S									
3			LW11S	LW110S		LW11S		LW11S		LW11S		LW11S		LW11S		X		LW11S		LW11S		LW11S		LW11S	
4			AH76E	AH76D		AU36F		BC27J		9912050-06A		BH96U		BR55L		BR55K		CB49J		CK77K		CT55H		DE68M	
5			5/20/99	5/20/99		9/21/99		12/8/99		12/8/1999 (d)		2/17/00		5/23/00		5/23/00		8/28/00		11/8/00		2/14/01		6/4/01	
87	80	**FIELD PARAMETERS**																							
88	81	pH (avg)	6.55	6.56		5.83		6.50		NM		6.52		6.52		6.53		6.27		NM		6.25		6.50	
89	82	Temperature (° C) (avg)	14.1	14.1		15.0		12.2		NM		15.0		14.0		14.0		15.1		NM		13.2		14.1	
90	83	Conductivity (um/hos)	285	286		226		323		NM		291		234		234		346		NM		296		270	
91	84	Dissolved oxygen (mg/L) (avg)	2.09	2.21		2.45		2.72		NM		0.11		2.02		2.02		1.37		NM		0.61		0.96	
92	85																								
93	86	**DIOXINS AND FURANS (ng/L)**																							
94	87	**Method 8290**																							
95	88	2,3,7,8-TCDF	NA	NA		0.0055	U	0.00130	U	NA		0.0025	U	NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA	NA		**0.018**		**0.0011**	J1	NA		**0.0064**		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA	NA		0.0056	U	0.00130	U	NA		0.0044	U	NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA	NA		0.0056	U	0.00130	U	NA		0.0044	U	NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA	NA		0.0320	UE	0.00160	U	NA		0.11	U	NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA	NA		0.0120	U	0.00130	U	NA		0.0026	U	NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA	NA		0.0220	U	0.00140	U	NA		0.0034	U	NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA	NA		0.0061	U	0.00160	U	NA		0.0044	U	NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA	NA		0.0061	U	0.00160	U	NA		0.0044	U	NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA	NA		0.0083	U	0.00120	U	NA		0.54	U	NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA	NA		0.0079	U	0.018	U	NA		0.0036	U	NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA	NA		0.0067	U	0.0032	U	NA		0.0038	U	NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA	NA		0.0130	U	0.00140	U	NA		0.0058	U	NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA	NA		**0.015**		0.0170	U	NA		**0.1600**		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA	NA		0.0076	U	0.00260	U	NA		0.0069	U	NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA	NA		**0.015**		**0.0025**	J1	NA		**0.0230**	J1	NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA	NA		0.0100	U	0.00130	U	NA		0.0078	U	NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA	NA		**0.035**		**0.0068**	J1	NA		**0.0310**		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	NA		**0.043**		**0.0071**	J1	NA		0.14	U	NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	NA		0.0094	U	0.00200	U	NA		0.0120	U	NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA	NA		**0.043**		**0.0320**	J1	NA		**0.3800**		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	NA		**0.270**		**0.0500**	J1	NA		**0.6900**		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA	NA		**0.410**		**0.0780**		NA		**1.1000**		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA	NA		0.220	U	**0.0280**	J1	NA		**0.5100**		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA	NA		**1.900**		**0.2800**		NA		**5.3000**		NA		NA		NA		NA		NA		NA	
120																									
121		**ETHANOL (mg/L)**	NA	NA		NA		NA		10	U	**11**		5.0	U	5.0	U	5.0	U	NA		5.0	U	NA	
122																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX
1																									
2										Dup of LW11S						Dup of LW11S									
3		LW11S		LW11S		LW11S		LW11S		OX005S		LW11S		LW11S		X		LW11S		LW11S		LW11S		LW11S	
4		ED34D		EM66C		ES04D		EX87C		EX87A		EZ03I		FF76H		FF76L		FL58H		FU45D		FY72I		0402086-06	
5		2/28/02		6/24/02		08/28/02		10/29/02		10/29/02		11/12/02		2/12/03		2/12/03		5/8/03		8/28/03		10/22/03		2/18/04	
87	**FIELD PARAMETERS**																								
88	pH (avg)	6.29		6.14		6.44		6.47		6.48		6.21		6.9		6.92		6.6		6.65		6.65		6.53	
89	Temperature (° C) (avg)	13.6		15.6		16.4		16.4		16.4		15.5		14.6		14.7		13.7		14.3		15.8		14.3	
90	Conductivity (um/hos)	460		205		218		554		554		528		323		324		248		356		300		341	
91	Dissolved oxygen (mg/L) (avg)	7.46		4.17		1.31		0		0		0		0		0		2.96		1.61		1.97		1.52	
92																									
93	**DIOXINS AND FURANS (ng/L)**																								
94	**Method 8290**																								
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**6.88**	J	NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**7.91**		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		3.08	U	NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		3.08	U	NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**30.1**		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**23.8**	J	NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**664**		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		5.19	U	NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**144**		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**185**		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**101**		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**141**		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		11	U	NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**6013**		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**31**		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**812**		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**111**		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**2769**		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**5015**		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**335**		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**23730**		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**34761**	J	NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**53330**		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**25345**	J	NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**276444**	J	NA	
120																									
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																									

BZTO104(e)021834

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
1											
2											
3		LW11S		LW11S		LW11S		LW11S		LW11S	
4		0406074-09		0408035-01		0411066-09		0502087-02		P5F0223-02	
5		6/10/04		8/05/04		11/11/04		2/17/05		6/6/05	
87	**FIELD PARAMETERS**										
88	pH (avg)	6.31		5.78		6.66		6.58		7.16	
89	Temperature (° C) (avg)	14.3		15.6		14.9		14.3		15.2	
90	Conductivity (um/hos)	418		585		428		207		470	
91	Dissolved oxygen (mg/L) (avg)	1.24		1.68		0.87		0		2.06	
92											
93	**DIOXINS AND FURANS (ng/L)**										
94	**Method 8290**										
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA	
120											
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA	
122											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	C	E	G	I	K	M	O	Q	S	U	W	Y
1													
2			Dup of LW11S						Dup of LW11S				
3		LW11S	LW110S	LW11S	LW11S	LW11S	LW11S	LW11S	X	LW11S	LW11S	LW11S	LW11S
4		AH76E	AH76D	AU36F	BC27J	9912050-06A	BH96U	BR55L	BR55K	CB49J	CK77K	CT55H	DE68M
5		5/20/99	5/20/99	9/21/99	12/8/99	12/8/1999 (d)	2/17/00	5/23/00	5/23/00	8/28/00	11/8/00	2/14/01	6/4/01
123	**PAHs (µg/L)**												
124	**EPA Method SW8270 SIM**												
125	Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
126	2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
127	Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
128	Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
129	Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
130	Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
131	Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX
1																									
2										Dup of LW11S						Dup of LW11S									
3		LW11S		LW11S		LW11S		LW11S		OX005S		LW11S		LW11S		X		LW11S		LW11S		LW11S		LW11S	
4		ED34D		EM66C		ES04D		EX87C		EX87A		EZ03I		FF76H		FF76L		FL58H		FU45D		FY72I		0402086-06	
5		2/28/02		6/24/02		08/28/02		10/29/02		10/29/02		11/12/02		2/12/03		2/12/03		5/8/03		8/28/03		10/22/03		2/18/04	
123	**PAHs (µg/L)**																								
124	**EPA Method SW8270 SIM**																								
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
1											
2											
3		LW11S		LW11S		LW11S		LW11S		LW11S	
4		0406074-09		0408035-01		0411066-09		0502087-02		P5F0223-02	
5		6/10/04		8/05/04		11/11/04		2/17/05		6/6/05	
123	**PAHs (µg/L)**										
124	**EPA Method SW8270 SIM**										
125	Naphthalene	NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		1	U	NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA	
130	Anthracene	NA		1	U	NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																											Dup of LW13S	
3			LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		Y	
4			BR64S		CB68A		CL03U		CT67O		DE87F		DM30R		DW29K		ED30F		EN00F		ER93H		EZ03N		FF65H		FF65J	
5			5/25/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/12/02		2/11/03		2/11/03	
6																												
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	**0.60**		**0.89**		**1.4**		**9.3**		**4.4**		**6.9**		0.25	U	0.26	U	0.25	U	0.26	U	**0.49**		0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
20	14	4-Methylphenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
21	15	Isophorone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
22	16	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
23	17	Benzoic Acid	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
24	18	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
25	19	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
26	20	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
27	21	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
28	22	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
29	23	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
30	24	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
31	25	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
37	31	Carbon Disulfide	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
38	32	2-Butanone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
39	33	Benzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
40	34	Bromoform	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
41	35	Toluene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
42	36	Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
43	37	Styrene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
44	38	m,p-Xylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
45	39	o-Xylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
46	40	1,3,5-Trimethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
47	41	1,2,4-Trimethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
48	42	Isopropylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
49	43	n-Propylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
50	44	tert-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
51	45	sec-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
52	46	4-Isopropyltoluene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
53	47	n-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
54	48	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	51	**Method OR-DEQ**																										
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
3		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S	
4		FL58C		FU45M		FY82E		0402113-06		0408036-07		0411066-16		0502102-08		P5F0342-05	
5		5/8/03		8/28/03		10/23/03		2/23/04		8/05/04		11/11/04		2/23/05		6/7/05	
7	**CHLORINATED PHENOLS (µg/L)**																
8	**EPA Method SW8040**																
9	Pentachlorophenol	0.25	U	**1.1**	J	**1.0**		0.482	U	0.5	U	NA		0.479	U	0.526	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
17	**SEMIVOLATILES (µg/L)**																
18	**EPA Method SW8270**																
19	Phenol	NA		NA		NA		NA		NA		1.92	U	NA		5.00	U
20	4-Methylphenol	NA		NA		NA		NA		NA		9.62	U	NA		5.00	U
21	Isophorone	NA		NA		NA		NA		NA		0.962	U	NA		5.00	U
22	2,4-Dimethylphenol	NA		NA		NA		NA		NA		2.89	U	NA		10.00	U
23	Benzoic Acid	NA		NA		NA		NA		NA		19.2	U	NA		50.0	U
24	Naphthalene	NA		NA		NA		NA		NA		0.962	U	NA		5.00	U
25	2-Methylnaphthalene	NA		NA		NA		NA		NA		0.962	U	NA		5.00	U
26	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		4.81	U	NA		5.00	U
27	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		4.81	U	NA		5.00	U
28	Acenaphthene	NA		NA		NA		NA		NA		0.962	U	NA		5.00	U
29	Dibenzofuran	NA		NA		NA		NA		NA		0.962	U	NA		5.00	U
30	Fluorene	NA		NA		NA		NA		NA		0.962	U	NA		5.00	U
31	Pentachlorophenol	NA		NA		NA		NA		NA		4.81	U	NA		10	U
32	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		0.962	U	NA		10.00	U
34	**VOLATILES (µg/L)**																
35	**EPA Method SW8260**																
36	Acetone	NA		NA		NA		NA		NA		50	U	NA		25.0	U
37	Carbon Disulfide	NA		NA		NA		NA		NA		2	U	NA		10.00	U
38	2-Butanone	NA		NA		NA		NA		NA		10	U	NA		10.00	U
39	Benzene	NA		NA		NA		NA		NA		0.3	U	NA		1.00	U
40	Bromoform	NA		NA		NA		NA		NA		1	U	NA		1.00	U
41	Toluene	NA		NA		NA		NA		NA		1	U	NA		1.00	U
42	Ethylbenzene	NA		NA		NA		NA		NA		1	U	NA		1.00	U
43	Styrene	NA		NA		NA		NA		NA		1	U	NA		1.00	U
44	m,p-Xylene	NA		NA		NA		NA		NA		2	U	NA		2.00	U
45	o-Xylene	NA		NA		NA		NA		NA		1	U	NA		1.00	U
46	1,3,5-Trimethylbenzene	NA		NA		NA		NA		NA		1	U	NA		1.00	U
47	1,2,4-Trimethylbenzene	NA		NA		NA		NA		NA		1	U	NA		1.00	U
48	Isopropylbenzene	NA		NA		NA		NA		NA		1	U	NA		2.00	U
49	n-Propylbenzene	NA		NA		NA		NA		NA		1	U	NA		1.00	U
50	tert-Butylbenzene	NA		NA		NA		NA		NA		1	U	NA		1.00	U
51	sec-Butylbenzene	NA		NA		NA		NA		NA		1	U	NA		1.00	U
52	4-Isopropyltoluene	NA		NA		NA		NA		NA		1	U	NA		2.00	U
53	n-Butylbenzene	NA		NA		NA		NA		NA		1	U	NA		5.00	U
54	Naphthalene	NA		NA		NA		NA		NA		1	U	NA		2.00	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		1	U	NA		1.00	U
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																
58	**Method OR-DEQ**																
59	**TPH-Diesel**	NA		NA		NA		NA		NA		0.244	U	0.243	U	0.25	U
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		0.489	U	0.487	U	0.5	U
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		0.1	U	0.08	U

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																											Dup of LW13S	
3			LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		Y	
4			BR64S		CB68A		CL03U		CT67O		DE87F		DM30R		DW29K		ED30F		EN00F		ER93H		EZ03N		FF65H		FF65J	
5			5/25/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/12/02		2/11/03		2/11/03	
63	56	**PRIORITY POLLUTANT**																										
64	57	**METALS (mg/L)**																										
65	58	Arsenic (7060)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
66	59	Chromium (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
67	60	Copper (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
68	61	Lead (7421)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
69	62	Nickel (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
70	63	Zinc (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
71	64																											
72	65	**MAJOR IONS AND CONVENTIONALS**																										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1																	
2																	
3		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S	
4		FL58C		FU45M		FY82E		0402113-06		0408036-07		0411066-16		0502102-08		P5F0342-05	
5		5/8/03		8/28/03		10/23/03		2/23/04		8/05/04		11/11/04		2/23/05		6/7/05	
63	**PRIORITY POLLUTANT**																
64	**METALS (mg/L)**																
65	Arsenic (7060)	NA		NA		NA		NA		NA		0.001	U	NA		0.001	U
66	Chromium (6010)	NA		NA		NA		NA		NA		**0.0235**		NA		**0.00194**	
67	Copper (6010)	NA		NA		NA		NA		NA		**0.0609**		NA		**0.0143**	
68	Lead (7421)	NA		NA		NA		NA		NA		**0.00029**		NA		0.001	U
69	Nickel (6010)	NA		NA		NA		NA		NA		**0.0853**		NA		**0.0357**	
70	Zinc (6010)	NA		NA		NA		NA		NA		0.01	U	NA		0.005	U
71																	
72	**MAJOR IONS AND CONVENTIONALS**																
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA		NA		NA		**229**		NA		**164**	
81	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		**10.6**		NA		**3.64**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA	
86																	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																											Dup of LW13S	
3			LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		Y	
4			BR64S		CB68A		CL03U		CT67O		DE87F		DM30R		DW29K		ED30F		EN00F		ER93H		EZ03N		FF65H		FF65J	
5			5/25/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/12/02		2/11/03		2/11/03	
87	80	**FIELD PARAMETERS**																										
88	81	pH (avg)	6.22		5.57		5.62		6.34		6.54		6.82		6.56		6.35		6.43		6.32		6.43		6.77		6.76	
89	82	Temperature (° C) (avg)	12.0		13.5		10.7		12.2		12.8		15.2		13.8		11.2		12.7		14.1		14.1		12.8		12.8	
90	83	Conductivity (um/hos)	128		149		272		149		336		383		214		89		180		146		141		71		71	
91	84	Dissolved oxygen (mg/L) (avg)	5.81		3.67		1.47		0.94		2.62		1.49		5.86		9.57		7.00		2.31		2.27		0		0	
92	85																											
93	86	**DIOXINS AND FURANS (ng/L)**																										
94	87	**Method 8290**																										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																												

BZTO104(e)021843

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1																	
2																	
3		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S	
4		FL58C		FU45M		FY82E		0402113-06		0408036-07		0411066-16		0502102-08		P5F0342-05	
5		5/8/03		8/28/03		10/23/03		2/23/04		8/05/04		11/11/04		2/23/05		6/7/05	
87	**FIELD PARAMETERS**																
88	pH (avg)	6.36		6.67		6.38		6.23		5.86		6.51		6.89		6.45	
89	Temperature (° C) (avg)	11.9		15.6		14.7		13.2		14.2		15.4		13.9		13.9	
90	Conductivity (um/hos)	81		131		119		70		267		192		93		141	
91	Dissolved oxygen (mg/L) (avg)	6.14		3.68		5.65		4.4		4.6		2.85		4.87		5.84	
92																	
93	**DIOXINS AND FURANS (ng/L)**																
94	**Method 8290**																
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA	
120																	
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA	
122																	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																											Dup of LW13S	
3			LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		Y	
4			BR64S		CB68A		CL03U		CT67O		DE87F		DM30R		DW29K		ED30F		EN00F		ER93H		EZ03N		FF65H		FF65J	
5			5/25/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/12/02		2/11/03		2/11/03	
123		**PAHs (µg/L)**																										
124		**EPA Method SW8270 SIM**																										
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1																	
2																	
3		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S	
4		FL58C		FU45M		FY82E		0402113-06		0408036-07		0411066-16		0502102-08		P5F0342-05	
5		5/8/03		8/28/03		10/23/03		2/23/04		8/05/04		11/11/04		2/23/05		6/7/05	
123	**PAHs (µg/L)**																
124	**EPA Method SW8270 SIM**																
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW19S		LW19S		LW19S		LW19S		LW19S		LW19S		LW19S	
4			FZ04O		0402115-04		0406050-12		0408056-08		0411059-01		0502099-03		P5F0666-01	
5			10/28/03		2/24/04		6/8/04		8/09/04		11/10/04		2/22/05		6/15/05	
6																
7	1	**CHLORINATED PHENOLS (µg/L)**														
8	2	**EPA Method SW8040**														
9	3	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
16	10															
17	11	**SEMIVOLATILES (µg/L)**														
18	12	**EPA Method SW8270**														
19	13	Phenol	2	U	2	U	2.03	U	2.03	U	1.95	U	1.99	U	5.00	U
20	14	4-Methylphenol	1	U	10	U	10.2	U	10.1	U	9.77	U	9.95	U	5.00	U
21	15	Isophorone	1	U	1	U	1.02	U	1.01	U	0.977	U	0.995	U	5.00	U
22	16	2,4-Dimethylphenol	3	U	3	U	3.05	U	3.04	U	2.93	U	2.99	U	10.00	U
23	17	Benzoic Acid	10	U	20	U	20.3	U	20.3	U	19.5	U	19.9	U	50.0	U
24	18	Naphthalene	1	U	1	U	1.02	U	1.01	U	0.977	U	0.995	U	5.00	U
25	19	2-Methylnaphthalene	1	U	1	U	1.02	U	1.01	U	0.977	U	0.995	U	5.00	U
26	20	2,4,6-Trichlorophenol	5	U	5	U	5.08	U	5.07	U	4.88	U	4.98	U	5.00	U
27	21	2,4,5-Trichlorophenol	5	U	5	U	5.08	U	5.07	U	4.88	U	4.98	U	5.00	U
28	22	Acenaphthene	**1.1**		**1.18**		1.02	U	**1.09**		**1.04**		0.995	U	5.00	U
29	23	Dibenzofuran	**1.5**		**1.02**		**1.08**		1.01	U	**1.33**		0.995	U	5.00	U
30	24	Fluorene	**3.5**		**2.82**		**3.04**		**3.46**		**3.41**		**11.3**		5.00	U
31	25	Pentachlorophenol	5	U	5	U	5.08	U	5.07	U	4.88	U	4.98	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	1	U	1	U	1.02	U	1.01	U	0.977	U	**2**		10.00	U
33	27															
34	28	**VOLATILES (µg/L)**														
35	29	**EPA Method SW8260**														
36	30	Acetone	**5.1**	M	50	U	50	U	50	U	50	U	50	U	25.0	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U	2	U	10.00	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U	10	U	10.00	U
39	33	Benzene	1	U	0.4	U	0.3	U	0.3	U	0.3	U	0.3	U	1.00	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
44	38	m,p-Xylene	1	U	2	U	2	U	2	U	2	U	2	U	2.00	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	**1.23**		1	U	1.00	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
48	42	Isopropylbenzene	**6.5**		**6.65**		**7.29**		**7.65**		**5.89**		**2.55**		**5.70**	
49	43	n-Propylbenzene	**8.9**		**9.37**		**12.3**		**9.41**		**9.38**		**5.54**		**8.48**	
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
51	45	sec-Butylbenzene	**4.7**		**4.92**		**5.87**		**4.62**		**3.65**		**2.67**		**4.20**	
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
53	47	n-Butylbenzene	**2.9**	M	**2.78**		**3.17**		**2**		**3**		**6.28**		5.00	U
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U	**7.88**		2.00	U
55	48.5	Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
56	49															
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**														
58	51	**Method OR-DEQ**														
59	52	**TPH-Diesel**	**4.4**		**7.53**		**7.12**		**6.15**		**5.32**		**11.3**		**1.77**	
60	53	**TPH-D Motor Oil**	0.5	U	**1.07**		0.516	U	0.5	U	**1.66**		0.481	U	0.5	U
61	54	**TPH-Gasoline**	**1.1**		**1.3**		**1.28**		**0.786**		**1.30**		**0.973**		**0.441**	
62	55															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW19S		LW19S		LW19S		LW19S		LW19S		LW19S		LW19S	
4			FZ04O		0402115-04		0406050-12		0408056-08		0411059-01		0502099-03		P5F0666-01	
5			10/28/03		2/24/04		6/8/04		8/09/04		11/10/04		2/22/05		6/15/05	
63	56	**PRIORITY POLLUTANT**														
64	57	**METALS (mg/L)**														
65	58	Arsenic (7060)	**0.046**		**0.040**		**0.039**		**0.0406**		**0.0406**		**0.0434**		**0.0472**	
66	59	Chromium (6010)	0.005	U	**0.0095**		0.005	U	**0.0158**		**0.0149**		**0.0063**		0.001	U
67	60	Copper (6010)	0.002	U	0.01	U	0.01	U	**0.159**		0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	**0.001**		**0.0005**		0.0001	U	**0.000177**		**0.00045**		**0.00056**		0.001	U
69	62	Nickel (6010)	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.00426**	
70	63	Zinc (6010)	0.006	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.005	U
71	64															
72	65	**MAJOR IONS AND CONVENTIONALS**														
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**140**		**256**		**148**		**152**		**191**		**218**		**244**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.1**		**2.18**		**1.19**		0.5	U	0.5	U	**0.98**		**2.63**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA	
86	79															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW19S		LW19S		LW19S		LW19S		LW19S		LW19S		LW19S	
4			FZ04O		0402115-04		0406050-12		0408056-08		0411059-01		0502099-03		P5F0666-01	
5			10/28/03		2/24/04		6/8/04		8/09/04		11/10/04		2/22/05		6/15/05	
87	80	**FIELD PARAMETERS**														
88	81	pH (avg)	6.65		6.63		6.64		6.01		6.86		6.34		6.58	
89	82	Temperature (° C) (avg)	14.4		12.8		15		14.7		14		13.4		13.6	
90	83	Conductivity (um/hos)	506		492		452		781		582		223		354	
91	84	Dissolved oxygen (mg/L) (avg)	1.72		1.26		1.05		2.69		1.79		0.06		0	
92	85															
93	86	**DIOXINS AND FURANS (ng/L)**														
94	87	**Method 8290**														
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA	
120																
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA	
122																

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW19S		LW19S		LW19S		LW19S		LW19S		LW19S		LW19S	
4			FZ04O		0402115-04		0406050-12		0408056-08		0411059-01		0502099-03		P5F0666-01	
5			10/28/03		2/24/04		6/8/04		8/09/04		11/10/04		2/22/05		6/15/05	
123		**PAHs (µg/L)**														
124		**EPA Method SW8270 SIM**														
125		Naphthalene	0.1	U	**0.369**		**0.76**		**0.14**		**0.515**		**1.13**		1.50	U
126		2-Methylnaphthalene	0.1	U	NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	0.1	U	**0.159**		**0.3**		1.01	U	**0.283**		**0.76**		1.00	U
128		Acenaphthene	0.84		**0.857**		**1.19**		**0.678**		**0.989**		**2.28**		**1.05**	
129		Fluorene	2.5		**2.35**		**3.88**		**1.59**		**3.29**		**7.83**		**2.94**	
130		Anthracene	0.1	U	0.0498	U	**0.18**		**0.0997**		**0.0807**		**0.267**		1.00	U
131		Dibenzofuran	0.77		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2							Dup of LW20S						Dup of LW20S							
3			LW20S		LW20S		X		LW20S		LW20S		X		LW20S		LW20S		LW20S	
4			FZ04M		0402115-02		0402115-01		0406050-11		0408056-09		0408056-01		0411059-02		0502110-06		P5F0666-03	
5			10/28/03		2/24/04		2/24/04		6/8/04		8/09/04		8/09/04		11/10/04		2/24/05		6/15/05	
6																				
7	1	**CHLORINATED PHENOLS (µg/L)**																		
8	2	**EPA Method SW8040**																		
9	3	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
16	10																			
17	11	**SEMIVOLATILES (µg/L)**																		
18	12	**EPA Method SW8270**																		
19	13	Phenol	2.2	U	2.02	U	2.1	U	1.98	U	2.07	U	2.08	U	1.95	U	1.97	U	5.00	U
20	14	4-Methylphenol	1.1	U	10.1	U	10.5	U	9.92	U	10.3	U	10.4	U	9.76	U	9.87	U	5.00	U
21	15	Isophorone	1.1	U	1.01	U	1.05	U	0.992	U	1.03	U	1.04	U	0.976	U	0.987	U	5.00	U
22	16	2,4-Dimethylphenol	3.3	U	3.03	U	3.15	U	2.98	U	3.1	U	3.12	U	2.93	U	2.96	U	10.00	U
23	17	Benzoic Acid	11	U	20.2	U	21	U	19.8	U	20.7	U	20.8	U	19.5	U	19.7	U	50.0	U
24	18	Naphthalene	1.1	U	1.01	U	1.05	U	0.992	U	1.03	U	1.04	U	0.976	U	0.987	U	5.00	U
25	19	2-Methylnaphthalene	1.1	U	1.01	U	1.05	U	0.992	U	1.03	U	1.04	U	0.976	U	0.987	U	5.00	U
26	20	2,4,6-Trichlorophenol	5.6	U	5.05	U	5.25	U	4.96	U	5.17	U	5.19	U	4.88	U	4.94	U	5.00	U
27	21	2,4,5-Trichlorophenol	5.6	U	5.05	U	5.25	U	4.96	U	5.17	U	5.19	U	4.88	U	4.94	U	5.00	U
28	22	Acenaphthene	**1.4**		**1.25**		1.05	U	**1.32**		**1.5**		**1.43**		**1.35**		**1.15**		5.00	U
29	23	Dibenzofuran	1.1	U	**1.43**		**1.49**		**1.24**		1.03	U	1.04	U	**1.17**		0.987	U	5.00	U
30	24	Fluorene	**3.8**		**3.7**		**3.53**		**3.64**		**3.86**		**3.63**		**3.24**		**3.18**		**6.12**	
31	25	Pentachlorophenol	5.6	U	5.05	U	5.25	U	4.96	U	5.17	U	5.19	U	4.88	U	4.94	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	1.1	U	1.01	U	1.05	U	0.992	U	1.03	U	1.04	U	0.976	U	0.987	U	10.00	U
33	27																			
34	28	**VOLATILES (µg/L)**																		
35	29	**EPA Method SW8260**																		
36	30	Acetone	5	U	50	UJ	50	U	50	U	50	U	50	U	50	U	50	U	25.0	U
37	31	Carbon Disulfide	1	U	2	UJ	2	U	2	U	2	U	2	U	2	U	2	U	10.00	U
38	32	2-Butanone	5	U	10	UJ	10	U	10	U	10	U	10	U	10	U	10	U	10.00	U
39	33	Benzene	1	U	**0.95**	J	**0.85**	J	0.3	U	0.3	U	0.3	U	**0.38**		0.3	U	1.00	U
40	34	Bromoform	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
41	35	Toluene	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
42	36	Ethylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
43	37	Styrene	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
44	38	m,p-Xylene	1	U	2	UJ	2	U	2	U	2	U	2	U	2	U	2	U	2.00	U
45	39	o-Xylene	1	U	1	UJ	1	U	1	U	1	U	1	U	**1.3**		1	U	1.00	U
46	40	1,3,5-Trimethylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
47	41	1,2,4-Trimethylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
48	42	Isopropylbenzene	**7**		**7.89**	J	**5.82**	J	**7.53**		**8.52**	J	**6.79**	J	**7.75**		**4.55**		**7.00**	
49	43	n-Propylbenzene	**9.2**		**10.8**	J	**9.94**		**13.5**		**10.6**		**10.5**		**11.3**		**9.38**		**10.5**	
50	44	tert-Butylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
51	45	sec-Butylbenzene	**5.1**		**6.27**	J	**5.19**		**6.65**		**5.55**	J	**4.41**	J	**5.26**		**4.57**		**5.92**	
52	46	4-Isopropyltoluene	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
53	47	n-Butylbenzene	**2.2**		**3.43**	J	**2.78**		**3.12**		**2.17**		**1.76**		**3.24**		**7.22**		5.00	U
54	48	Naphthalene	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U	**13.1**		2.00	U
55	48.5	Methyl tert-butyl ether	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
56	49																			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																		
58	51	**Method OR-DEQ**																		
59	52	**TPH-Diesel**	**5.4**		**6.77**		**6.29**		**10.7**		**9.21**		**8.43**		**6.45**		**6.27**		0.543	U
60	53	**TPH-D Motor Oil**	0.5	U	**1.06**		**0.998**		0.498	U	0.511	U	0.528	U	**2.37**		0.488	U	0.5	U
61	54	**TPH-Gasoline**	**0.96**		**1.4**		**1.2**		**0.981**		**0.783**		**0.676**		**1.21**		**0.699**		**0.337**	
62	55																			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2							Dup of LW20S						Dup of LW20S							
3			LW20S		LW20S		X		LW20S		LW20S		X		LW20S		LW20S		LW20S	
4			FZ04M		0402115-02		0402115-01		0406050-11		0408056-09		0408056-01		0411059-02		0502110-06		P5F0666-03	
5			10/28/03		2/24/04		2/24/04		6/8/04		8/09/04		8/09/04		11/10/04		2/24/05		6/15/05	
63	56	**PRIORITY POLLUTANT**																		
64	57	**METALS (mg/L)**																		
65	58	Arsenic (7060)	**0.04**		**0.020**		**0.019**		**0.029**		**0.0317**		**0.031**		**0.0336**		**0.0313**		**0.0263**	
66	59	Chromium (6010)	0.005	U	**0.013**		**0.0123**	J	**0.0133**		**0.014**		**0.0176**		0.005	U	0.005	U	0.001	U
67	60	Copper (6010)	0.002	U	0.01	U	0.01	U	0.01	U	**0.605**	J	0.01	UJ	0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	0.001	U	**0.0005**	J	**0.0007**	J	**0.0001**		0.0001	U	0.0001	U	**0.00042**		0.000277	U	0.001	U
69	62	Nickel (6010)	0.01	U	0.005	U	**0.016**		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.00601**	
70	63	Zinc (6010)	**0.01**		0.01	U	0.01	U	0.01	U	0.01	U	**0.0211**		0.01	U	**0.0146**		0.005	U
71	64																			
72	65	**MAJOR IONS AND CONVENTIONALS**																		
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**270**		**240**		**237**		**281**		**242**		**247**		**287**		**411**		**265**	
81	74	Chloride (mg/L) (EPA 325.2)	**2**		**1.45**		**1.79**		**1.91**		0.5	U	0.5	U	0.5	U	**2.23**		**1.56**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2							Dup of LW20S						Dup of LW20S							
3			LW20S		LW20S		X		LW20S		LW20S		X		LW20S		LW20S		LW20S	
4			FZ04M		0402115-02		0402115-01		0406050-11		0408056-09		0408056-01		0411059-02		0502110-06		P5F0666-03	
5			10/28/03		2/24/04		2/24/04		6/8/04		8/09/04		8/09/04		11/10/04		2/24/05		6/15/05	
87	80	**FIELD PARAMETERS**																		
88	81	pH (avg)	6.33		6.12		6.12		6.56		5.94		5.94		6.52		6.72		6.30	
89	82	Temperature (° C) (avg)	16.5		11.6		11.7		14.5		16.9		16.4		16.1		13		14.7	
90	83	Conductivity (um/hos)	445		314		314		445		717		718		385		196		245	
91	84	Dissolved oxygen (mg/L) (avg)	1.79		1.82		1.79		1.94		1.51		2.13		1.4		0.47		0	
92	85																			
93	86	**DIOXINS AND FURANS (ng/L)**																		
94	87	**Method 8290**																		
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																				
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2							Dup of LW20S						Dup of LW20S							
3			LW20S		LW20S		X		LW20S		LW20S		X		LW20S		LW20S		LW20S	
4			FZ04M		0402115-02		0402115-01		0406050-11		0408056-09		0408056-01		0411059-02		0502110-06		P5F0666-03	
5			10/28/03		2/24/04		2/24/04		6/8/04		8/09/04		8/09/04		11/10/04		2/24/05		6/15/05	
123		**PAHs (µg/L)**																		
124		**EPA Method SW8270 SIM**																		
125		Naphthalene	0.11	U	**0.429**		**0.518**		**0.85**		**0.39**		**0.392**		**0.554**		**0.45**		1.50	U
126		2-Methylnaphthalene	0.11	U	NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	0.11	U	**0.256**		**0.352**		**0.39**		**0.107**	J	**0.245**	J	**0.301**		**0.29**		0.500	U
128		Acenaphthene	1.3		**0.91**	J	**1.19**	J	**1.41**		**0.956**	J	**1.21**	J	**1.14**		**0.94**		**1.25**	
129		Fluorene	3.3		**2.55**	J	**3.52**	J	**3.92**		**2.14**	J	**2.75**	J	**3.46**		**2.94**		**3.83**	
130		Anthracene	0.14		**0.0716**		**0.0932**		**0.17**		**0.127**		**0.0979**		**0.0875**		**0.07**		0.250	U
131		Dibenzofuran	0.59		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW21S	
4			FZ04Q	
5			10/28/03	
6				
7	1	**CHLORINATED PHENOLS (µg/L)**		
8	2	**EPA Method SW8040**		
9	3	Pentachlorophenol	NA	
10	4	2,4,6-Trichlorophenol	NA	
11	5	2,3,6-Trichlorophenol	NA	
12	6	2,4,5-Trichlorophenol	NA	
13	7	2,3,4-Trichlorophenol	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	9	2,3,4,5-Tetrachlorophenol	NA	
16	10			
17	11	**SEMIVOLATILES (µg/L)**		
18	12	**EPA Method SW8270**		
19	13	Phenol	**11**	
20	14	4-Methylphenol	1.2	U
21	15	Isophorone	1.2	U
22	16	2,4-Dimethylphenol	**5.4**	
23	17	Benzoic Acid	12	U
24	18	Naphthalene	**100**	
25	19	2-Methylnaphthalene	**46**	
26	20	2,4,6-Trichlorophenol	6	U
27	21	2,4,5-Trichlorophenol	6	U
28	22	Acenaphthene	1.2	U
29	23	Dibenzofuran	1.2	U
30	24	Fluorene	**1.9**	
31	25	Pentachlorophenol	6	U
32	26	bis(2-Ethylhexyl)phthalate	1.2	U
33	27			
34	28	**VOLATILES (µg/L)**		
35	29	**EPA Method SW8260**		
36	30	Acetone	5	U
37	31	Carbon Disulfide	1	U
38	32	2-Butanone	5	U
39	33	Benzene	**1600**	
40	34	Bromoform	1	U
41	35	Toluene	**72**	
42	36	Ethylbenzene	**940**	
43	37	Styrene	1	U
44	38	m,p-Xylene	**2400**	
45	39	o-Xylene	**770**	
46	40	1,3,5-Trimethylbenzene	**120**	
47	41	1,2,4-Trimethylbenzene	**540**	
48	42	Isopropylbenzene	**72**	
49	43	n-Propylbenzene	**110**	
50	44	tert-Butylbenzene	1	U
51	45	sec-Butylbenzene	1	U
52	46	4-Isopropyltoluene	1	U
53	47	n-Butylbenzene	**8**	
54	48	Naphthalene	**190**	
55	48.5	Methyl tert-butyl ether	**7.5**	M
56	49			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	51	**Method OR-DEQ**		
59	52	**TPH-Diesel**	**4.3**	
60	53	**TPH-D Motor Oil**	0.5	U
61	54	**TPH-Gasoline**	**24**	
62	55			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW21S	
4			FZ04Q	
5			10/28/03	
63	56	**PRIORITY POLLUTANT**		
64	57	**METALS (mg/L)**		
65	58	Arsenic (7060)	**0.025**	
66	59	Chromium (6010)	0.005	U
67	60	Copper (6010)	**0.005**	
68	61	Lead (7421)	**0.005**	
69	62	Nickel (6010)	0.01	U
70	63	Zinc (6010)	**0.012**	
71	64			
72	65	**MAJOR IONS AND CONVENTIONALS**		
73	66	Calcium (mg/L) (6010)	NA	
74	67	Magnesium (mg/L) (6010)	NA	
75	68	Potassium (mg/L) (6010)	NA	
76	69	Sodium (mg/L) (6010)	NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**240**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.7**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA	
86	79			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW21S	
4			FZ04Q	
5			10/28/03	
87	80	**FIELD PARAMETERS**		
88	81	pH (avg)	6.54	
89	82	Temperature (° C) (avg)	16.4	
90	83	Conductivity (um/hos)	373	
91	84	Dissolved oxygen (mg/L) (avg)	1.25	
92	85			
93	86	**DIOXINS AND FURANS (ng/L)**		
94	87	**Method 8290**		
95	88	2,3,7,8-TCDF	NA	
96	89	Total TCDF	NA	
97	90	2,3,7,8-TCDD	NA	
98	91	Total TCDD	NA	
99	92	1,2,3,7,8-PeCDF	NA	
100	93	2,3,4,7,8-PeCDF	NA	
101	94	Total PeCDF	NA	
102	95	1,2,3,7,8-PeCDD	NA	
103	96	Total PeCDD	NA	
104	97	1,2,3,4,7,8-HxCDF	NA	
105	98	1,2,3,6,7,8-HxCDF	NA	
106	99	2,3,4,6,7,8-HxCDF	NA	
107	100	1,2,3,7,8,9-HxCDF	NA	
108	101	Total HxCDF	NA	
109	102	1,2,3,4,7,8-HxCDD	NA	
110	103	1,2,3,6,7,8-HxCDD	NA	
111	104	1,2,3,7,8,9-HxCDD	NA	
112	105	Total HxCDD	NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	
115	108	Total HpCDF	NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	
117	110	Total HpCDD	NA	
118	111	OCDF	NA	
119	112	OCDD	NA	
120				
121		**ETHANOL (mg/L)**	NA	
122				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW21S	
4			FZ04Q	
5			10/28/03	
123		**PAHs (µg/L)**		
124		**EPA Method SW8270 SIM**		
125		Naphthalene	100	
126		2-Methylnaphthalene	46	
127		Acenaphthylene	0.12	U
128		Acenaphthene	0.8	
129		Fluorene	2.1	
130		Anthracene	0.12	U
131		Dibenzofuran	0.57	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW27S		LW27S	
4			FZ04R		0406072-01	
5			10/28/03		6/10/04	
6						
7	1	**CHLORINATED PHENOLS (µg/L)**				
8	2	**EPA Method SW8040**				
9	3	Pentachlorophenol	NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA	
16	10					
17	11	**SEMIVOLATILES (µg/L)**				
18	12	**EPA Method SW8270**				
19	13	Phenol	2.4	U	1.93	U
20	14	4-Methylphenol	1.2	U	9.66	U
21	15	Isophorone	1.2	U	0.966	U
22	16	2,4-Dimethylphenol	3.7	U	2.9	U
23	17	Benzoic Acid	12	U	19.3	U
24	18	Naphthalene	1.2	U	0.966	U
25	19	2-Methylnaphthalene	1.2	U	0.966	U
26	20	2,4,6-Trichlorophenol	6.1	U	4.83	U
27	21	2,4,5-Trichlorophenol	6.1	U	4.83	U
28	22	Acenaphthene	**1.2**		**1.25**	
29	23	Dibenzofuran	1.2	U	0.966	U
30	24	Fluorene	**2.3**		**2.68**	
31	25	Pentachlorophenol	6.1	U	4.83	U
32	26	bis(2-Ethylhexyl)phthalate	1.2	U	0.966	U
33	27					
34	28	**VOLATILES (µg/L)**				
35	29	**EPA Method SW8260**				
36	30	Acetone	**6**		50	U
37	31	Carbon Disulfide	1	U	2	U
38	32	2-Butanone	5	U	10	U
39	33	Benzene	1	U	0.3	U
40	34	Bromoform	1	U	1	U
41	35	Toluene	1	U	1	U
42	36	Ethylbenzene	1	U	1	U
43	37	Styrene	1	U	1	U
44	38	m,p-Xylene	1	U	2	U
45	39	o-Xylene	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U
48	42	Isopropylbenzene	**12**		**6.97**	
49	43	n-Propylbenzene	**13**		**9.41**	
50	44	tert-Butylbenzene	1	U	1	U
51	45	sec-Butylbenzene	**4**		**2.24**	
52	46	4-Isopropyltoluene	1	U	1	U
53	47	n-Butylbenzene	**3.3**		**2.24**	
54	48	Naphthalene	5	U	1	U
55	48.5	Methyl tert-butyl ether	1	U	1	U
56	49					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**				
58	51	**Method OR-DEQ**				
59	52	**TPH-Diesel**	**4.4**		**6.95**	
60	53	**TPH-D Motor Oil**	0.5	U	0.498	U
61	54	**TPH-Gasoline**	**1.6**		**1.66**	
62	55					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW27S		LW27S	
4			FZ04R		0406072-01	
5			10/28/03		6/10/04	
63	56	**PRIORITY POLLUTANT**				
64	57	**METALS (mg/L)**				
65	58	Arsenic (7060)	**0.038**		**0.024**	
66	59	Chromium (6010)	0.005	U	**0.0144**	
67	60	Copper (6010)	**0.002**		0.01	U
68	61	Lead (7421)	**0.002**		0.0001	U
69	62	Nickel (6010)	0.01	U	0.005	U
70	63	Zinc (6010)	**0.008**		0.01	U
71	64					
72	65	**MAJOR IONS AND CONVENTIONALS**				
73	66	Calcium (mg/L) (6010)	NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**270**		**311**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.9**		**1.9**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA	
86	79					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW27S		LW27S	
4			FZ04R		0406072-01	
5			10/28/03		6/10/04	
87	80	**FIELD PARAMETERS**				
88	81	pH (avg)	6.62		6.33	
89	82	Temperature (° C) (avg)	14.9		12.8	
90	83	Conductivity (um/hos)	400		413	
91	84	Dissolved oxygen (mg/L) (avg)	1.53		0.81	
92	85					
93	86	**DIOXINS AND FURANS (ng/L)**				
94	87	**Method 8290**				
95	88	2,3,7,8-TCDF	NA		NA	
96	89	Total TCDF	NA		NA	
97	90	2,3,7,8-TCDD	NA		NA	
98	91	Total TCDD	NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA	
101	94	Total PeCDF	NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA	
103	96	Total PeCDD	NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA	
108	101	Total HxCDF	NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA	
112	105	Total HxCDD	NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA	
115	108	Total HpCDF	NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA	
117	110	Total HpCDD	NA		NA	
118	111	OCDF	NA		NA	
119	112	OCDD	NA		NA	
120						
121		**ETHANOL (mg/L)**	NA		NA	
122						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW27S		LW27S	
4			FZ04R		0406072-01	
5			10/28/03		6/10/04	
123		**PAHs (µg/L)**				
124		**EPA Method SW8270 SIM**				
125		Naphthalene	0.12	U	**1.28**	
126		2-Methylnaphthalene	0.12	U	NA	
127		Acenaphthylene	0.12	U	**0.21**	
128		Acenaphthene	1.1		**1.24**	
129		Fluorene	2.3		**2.89**	
130		Anthracene	0.16		**0.06**	
131		Dibenzofuran	0.71		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW28S		LW28S		LW28S	
4			0402080-02		0406040-01		P5F0441-09	
5			2/17/04		6/7/04		6/9/05	
6								
7	1	**CHLORINATED PHENOLS (µg/L)**						
8	2	**EPA Method SW8040**						
9	3	Pentachlorophenol	NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA	
16	10							
17	11	**SEMIVOLATILES (µg/L)**						
18	12	**EPA Method SW8270**						
19	13	Phenol	1.92	U	1.94	U	5.00	U
20	14	4-Methylphenol	9.62	U	9.71	U	5.00	U
21	15	Isophorone	0.962	U	0.971	U	5.00	U
22	16	2,4-Dimethylphenol	2.89	U	2.91	U	10.00	U
23	17	Benzoic Acid	19.2	U	19.4	U	50.0	U
24	18	Naphthalene	0.962	U	0.971	U	5.00	U
25	19	2-Methylnaphthalene	0.962	U	0.971	U	5.00	U
26	20	2,4,6-Trichlorophenol	4.81	U	4.85	U	5.00	U
27	21	2,4,5-Trichlorophenol	4.81	U	4.85	U	5.00	U
28	22	Acenaphthene	0.962	U	0.971	U	5.00	U
29	23	Dibenzofuran	0.962	U	0.971	U	5.00	U
30	24	Fluorene	0.962	U	0.971	U	5.00	U
31	25	Pentachlorophenol	4.81	U	4.85	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	0.962	U	0.971	U	10.00	U
33	27							
34	28	**VOLATILES (µg/L)**						
35	29	**EPA Method SW8260**						
36	30	Acetone	50	U	50	U	25.0	U
37	31	Carbon Disulfide	2	U	2	U	10.00	U
38	32	2-Butanone	10	U	10	U	10.00	U
39	33	Benzene	0.4	U	0.3	U	1.00	U
40	34	Bromoform	1	U	1	U	1.00	U
41	35	Toluene	1	U	1	U	1.00	U
42	36	Ethylbenzene	1	U	1	U	1.00	U
43	37	Styrene	1	U	1	U	1.00	U
44	38	m,p-Xylene	2	U	2	U	2.00	U
45	39	o-Xylene	1	U	1	U	1.00	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1.00	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1.00	U
48	42	Isopropylbenzene	1	U	1	U	2.00	U
49	43	n-Propylbenzene	1	U	1	U	1.00	U
50	44	tert-Butylbenzene	1	U	1	U	1.00	U
51	45	sec-Butylbenzene	1	U	1	U	1.00	U
52	46	4-Isopropyltoluene	1	U	1	U	2.00	U
53	47	n-Butylbenzene	1	U	1	U	5.00	U
54	48	Naphthalene	1	U	1	U	2.00	U
55	48.5	Methyl tert-butyl ether	1	U	1	U	1.00	U
56	49							
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**						
58	51	**Method OR-DEQ**						
59	52	**TPH-Diesel**	0.242	U	**0.331**		0.25	U
60	53	**TPH-D Motor Oil**	0.484	U	0.513	U	0.5	U
61	54	**TPH-Gasoline**	0.1	U	0.1	U	0.08	U
62	55							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW28S		LW28S		LW28S	
4			0402080-02		0406040-01		P5F0441-09	
5			2/17/04		6/7/04		6/9/05	
63	56	**PRIORITY POLLUTANT**						
64	57	**METALS (mg/L)**						
65	58	Arsenic (7060)	0.001	U	0.001	U	0.001	U
66	59	Chromium (6010)	0.005	U	0.005	U	0.001	U
67	60	Copper (6010)	0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	0.0001	U	**0.0002**		0.001	U
69	62	Nickel (6010)	0.005	U	**0.0094**		**0.0124**	
70	63	Zinc (6010)	0.01	U	0.01	U	0.005	U
71	64							
72	65	**MAJOR IONS AND CONVENTIONALS**						
73	66	Calcium (mg/L) (6010)	NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**75**		**92**		**99**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.17**		**1.04**		**2.25**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA	
86	79							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW28S		LW28S		LW28S	
4			0402080-02		0406040-01		P5F0441-09	
5			2/17/04		6/7/04		6/9/05	
87	80	**FIELD PARAMETERS**						
88	81	pH (avg)	5.84		4.93		5.50	
89	82	Temperature (° C) (avg)	11.5		13.2		14.8	
90	83	Conductivity (um/hos)	61		67		80	
91	84	Dissolved oxygen (mg/L) (avg)	6.56		4.51		6.17	
92	85							
93	86	**DIOXINS AND FURANS (ng/L)**						
94	87	**Method 8290**						
95	88	2,3,7,8-TCDF	NA		NA		NA	
96	89	Total TCDF	NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA	
98	91	Total TCDD	NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA	
118	111	OCDF	NA		NA		NA	
119	112	OCDD	NA		NA		NA	
120								
121		**ETHANOL (mg/L)**	NA		NA		NA	
122								

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW28S		LW28S		LW28S	
4			0402080-02		0406040-01		P5F0441-09	
5			2/17/04		6/7/04		6/9/05	
123		**PAHs (µg/L)**						
124		**EPA Method SW8270 SIM**						
125		Naphthalene	**0.0675**	J	0.05	U	0.100	U
126		2-Methylnaphthalene	NA		NA		NA	
127		Acenaphthylene	0.0482	UJ	0.05	U	0.100	U
128		Acenaphthene	0.0482	UJ	0.05	U	0.100	U
129		Fluorene	0.0482	UJ	**0.0599**		0.100	U
130		Anthracene	0.0482	UJ	0.05	U	0.100	U
131		Dibenzofuran	NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW29S		LW29S		LW29S		LW29S		LW29S		LW29S		LW29S	
4			FZ04C		0402080-08		0406050-06		0408006-06		0411047-02		0502059-02		P5F0343-04	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04		2/15/05		6/8/05	
6																
7	1	**CHLORINATED PHENOLS (µg/L)**														
8	2	**EPA Method SW8040**														
9	3	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
16	10															
17	11	**SEMIVOLATILES (µg/L)**														
18	12	**EPA Method SW8270**														
19	13	Phenol	2	U	1.96	U	2.01	U	1.94	U	2.07	U	1.96	U	5.00	U
20	14	4-Methylphenol	1	U	9.79	U	10.1	U	9.71	U	10.4	U	9.8	U	5.00	U
21	15	Isophorone	1	U	0.979	U	1.01	U	0.971	U	1.04	U	0.98	U	5.00	U
22	16	2,4-Dimethylphenol	3	U	2.94	U	3.02	U	2.91	U	3.11	U	2.94	U	10.00	U
23	17	Benzoic Acid	10	U	19.6	U	20.1	U	19.4	U	20.7	U	19.6	U	50.0	U
24	18	Naphthalene	1	U	0.979	U	1.01	U	0.971	U	1.04	U	0.98	U	5.00	U
25	19	2-Methylnaphthalene	1	U	0.979	U	1.01	U	0.971	U	1.04	U	0.98	U	5.00	U
26	20	2,4,6-Trichlorophenol	5	U	4.9	U	5.04	U	4.85	U	5.18	U	4.9	U	5.00	U
27	21	2,4,5-Trichlorophenol	5	U	4.9	U	5.04	U	4.85	U	5.18	U	4.9	U	5.00	U
28	22	Acenaphthene	1	U	0.979	U	1.01	U	0.971	U	1.04	U	0.98	U	5.00	U
29	23	Dibenzofuran	1	U	0.979	U	1.01	U	0.971	U	1.04	U	0.98	U	5.00	U
30	24	Fluorene	1	U	0.979	U	1.01	U	0.971	U	1.04	U	0.98	U	5.00	U
31	25	Pentachlorophenol	5	U	4.9	U	5.04	U	4.85	U	5.18	U	4.9	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	1	U	0.979	U	1.01	U	0.971	U	1.04	U	0.98	U	10.00	U
33	27															
34	28	**VOLATILES (µg/L)**														
35	29	**EPA Method SW8260**														
36	30	Acetone	5	U	50	U	50	U	50	U	50	U	50	U	25.0	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U	2	U	10.00	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U	10	U	10.00	U
39	33	Benzene	1	U	0.4	U	0.3	U	0.3	U	0.3	U	0.3	U	1.00	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
44	38	m,p-Xylene	1	U	2	U	2	U	2	U	2	U	2	U	2.00	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
48	42	Isopropylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
49	43	n-Propylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
51	45	sec-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
53	47	n-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	5.00	U
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U	1	U	2.00	U
55	48.5	Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
56	49															
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**														
58	51	**Method OR-DEQ**														
59	52	**TPH-Diesel**	0.25	U	0.243	U	0.255	U	**0.337**		**0.36**		0.242	U	0.25	U
60	53	**TPH-D Motor Oil**	0.5	U	0.485	U	0.511	U	0.481	U	0.503	U	0.484	U	0.5	U
61	54	**TPH-Gasoline**	0.25	U	0.1	U	0.1	U	0.1	U	0.1	U	**0.108**		0.08	U
62	55															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW29S		LW29S		LW29S		LW29S		LW29S		LW29S		LW29S	
4			FZ04C		0402080-08		0406050-06		0408006-06		0411047-02		0502059-02		P5F0343-04	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04		2/15/05		6/8/05	
63	56	**PRIORITY POLLUTANT**														
64	57	**METALS (mg/L)**														
65	58	Arsenic (7060)	**0.002**		**0.002**		**0.001**		0.00269	U	**0.00329**		**0.00234**		**0.00196**	
66	59	Chromium (6010)	0.005	U	0.005	U	**0.0178**		**0.0171**		**0.0169**		**0.0088**		0.001	U
67	60	Copper (6010)	0.002	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	0.001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.001	U
69	62	Nickel (6010)	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.00328**	
70	63	Zinc (6010)	**0.007**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.005	U
71	64															
72	65	**MAJOR IONS AND CONVENTIONALS**														
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**91**		**98**		**103**		**79**		**135**		**134**		**136**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.8**		**1.03**		**1.32**		**1.4**		**1.37**		**5.44**		**1.78**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA	
86	79															

BZTO104(e)021868

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW29S		LW29S		LW29S		LW29S		LW29S		LW29S		LW29S	
4			FZ04C		0402080-08		0406050-06		0408006-06		0411047-02		0502059-02		P5F0343-04	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04		2/15/05		6/8/05	
87	80	**FIELD PARAMETERS**														
88	81	pH (avg)	6.56		6.65		6.65		5.72		6.66		6.81		6.51	
89	82	Temperature (° C) (avg)	14.7		12.7		13.6		15.4		14.5		12.9		15.2	
90	83	Conductivity (um/hos)	112		129		88		151		136		102		177	
91	84	Dissolved oxygen (mg/L) (avg)	1.44		2.33		2.36		NM		0.96		1.38		7.52	
92	85															
93	86	**DIOXINS AND FURANS (ng/L)**														
94	87	**Method 8290**														
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA	
120																
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA	
122																

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW29S		LW29S		LW29S		LW29S		LW29S		LW29S		LW29S	
4			FZ04C		0402080-08		0406050-06		0408006-06		0411047-02		0502059-02		P5F0343-04	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04		2/15/05		6/8/05	
123		**PAHs (µg/L)**														
124		**EPA Method SW8270 SIM**														
125		Naphthalene	0.1	U	0.0489	UJ	0.05	U	**0.06**		0.0529	U	0.0507	U	0.100	U
126		2-Methylnaphthalene	0.1	U	NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	0.1	U	0.0489	UJ	0.05	U	0.05	U	0.0529	U	0.0507	U	0.100	U
128		Acenaphthene	0.1	U	0.0489	UJ	0.05	U	0.05	U	0.0529	U	0.0507	U	0.100	U
129		Fluorene	0.1	U	0.0489	UJ	0.05	U	0.05	U	0.0529	U	0.0507	U	0.100	U
130		Anthracene	0.1	U	0.0489	UJ	0.05	U	0.05	U	0.0529	U	0.0507	U	0.100	U
131		Dibenzofuran	0.1	U	NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2					Dup of LW30S													
3			LW30S		X		LW30S		LW30S		LW30S		LW30S		LW30S		LW30S	
4			FZ04E		FZ04L		0402085-01		0406050-08		0408020-04		0411047-04		0502059-03		P5F0441-07	
5			10/27/03		10/27/03		2/18/04		6/8/04		8/03/04		11/8/04		2/15/05		6/9/05	
6																		
7	1	**CHLORINATED PHENOLS (µg/L)**																
8	2	**EPA Method SW8040**																
9	3	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
16	10																	
17	11	**SEMIVOLATILES (µg/L)**																
18	12	**EPA Method SW8270**																
19	13	Phenol	2.2	U	2.2	U	1.95	U	1.97	U	1.94	U	1.96	U	2.04	U	5.00	U
20	14	4-Methylphenol	1.1	U	1.1	U	9.75	U	9.85	U	9.69	U	9.78	U	10.2	U	5.00	U
21	15	Isophorone	1.1	U	1.1	U	0.975	U	0.985	U	0.969	U	0.978	U	1.02	U	5.00	U
22	16	2,4-Dimethylphenol	3.3	U	3.3	U	2.92	U	2.96	U	2.91	U	2.93	U	3.06	U	10.00	U
23	17	Benzoic Acid	11	U	11	U	19.5	U	19.7	U	19.4	U	19.6	U	20.4	U	50.0	U
24	18	Naphthalene	1.1	U	1.1	U	0.975	U	0.985	U	0.969	U	0.978	U	1.02	U	5.00	U
25	19	2-Methylnaphthalene	1.1	U	1.1	U	0.975	U	0.985	U	0.969	U	0.978	U	1.02	U	5.00	U
26	20	2,4,6-Trichlorophenol	5.5	U	5.4	U	4.87	U	4.93	U	4.84	U	4.89	U	5.11	U	5.00	U
27	21	2,4,5-Trichlorophenol	5.5	U	5.4	U	4.87	U	4.93	U	4.84	U	4.89	U	5.11	U	5.00	U
28	22	Acenaphthene	1.1	U	1.1	U	0.975	U	**1.02**		0.969	U	0.978	U	1.02	U	5.00	U
29	23	Dibenzofuran	1.1	U	1.1	U	0.975	U	0.985	U	0.969	U	0.978	U	1.02	U	5.00	U
30	24	Fluorene	**1.4**		**1.5**		**1.39**		**2.02**		1.05	U	0.978	U	1.02	U	5.00	U
31	25	Pentachlorophenol	5.5	U	5.4	U	4.87	U	4.93	U	4.84	U	4.89	U	5.11	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	1.1	U	**1.7**		0.975	U	0.985	U	0.969	U	0.978	U	1.02	U	10.00	U
33	27																	
34	28	**VOLATILES (µg/L)**																
35	29	**EPA Method SW8260**																
36	30	Acetone	5	U	5	U	50	U	50	U	50	U	50	U	50	U	25.0	U
37	31	Carbon Disulfide	1	U	1	U	2	U	2	U	2	U	2	U	2	U	10.00	U
38	32	2-Butanone	5	U	5	U	10	U	10	U	10	U	10	U	10	U	10.00	U
39	33	Benzene	1	U	1	U	0.4	U	0.3	U	0.3	U	0.3	U	0.3	U	1.00	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
44	38	m,p-Xylene	1	U	**1**		2	U	2	U	2	U	2	U	2	U	2.00	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
46	40	1,3,5-Trimethylbenzene	1	U	**1.3**		1	U	1	U	1	U	1	U	1	U	1.00	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
48	42	Isopropylbenzene	**9.8**		**9.6**		**7.32**		**8.76**		**7.68**	J	**4.67**		**2.96**		**4.93**	
49	43	n-Propylbenzene	**25**		**23**		**26.7**		**36.4**		**27.8**	J	**28**		**17.2**		**13.7**	
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	**2.25**		1.00	U
51	45	sec-Butylbenzene	**2.5**		**2.4**		**1.64**		**2.3**		**2.48**	J	**1.17**		**3.13**		**1.56**	
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
53	47	n-Butylbenzene	**3.5**		**3.2**	M	**3.13**		**3.98**		**3.46**	J	**3.55**		**4.75**		5.00	U
54	48	Naphthalene	5	U	5	U	1	U	1	U	1	U	1	U	1	U	2.00	U
55	48.5	Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
56	49																	
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																
58	51	**Method OR-DEQ**																
59	52	**TPH-Diesel**	**0.87**		**0.86**		**2.06**		**2.23**		**1.44**		**0.747**		**1.34**		**0.427**	
60	53	**TPH-D Motor Oil**	0.5	U	0.5	U	0.486	U	0.497	U	0.493	U	0.491	U	0.496	U	0.5	U
61	54	**TPH-Gasoline**	**0.84**		**0.89**		**0.90**		**1.0**		**0.719**		**0.637**		**0.927**		**0.225**	
62	55																	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2					Dup of LW30S													
3			LW30S		X		LW30S		LW30S		LW30S		LW30S		LW30S		LW30S	
4			FZ04E		FZ04L		0402085-01		0406050-08		0408020-04		0411047-04		0502059-03		P5F0441-07	
5			10/27/03		10/27/03		2/18/04		6/8/04		8/03/04		11/8/04		2/15/05		6/9/05	
63	56	**PRIORITY POLLUTANT**																
64	57	**METALS (mg/L)**																
65	58	Arsenic (7060)	**0.013**		**0.013**		**0.018**		**0.015**		**0.0163**		**0.0141**		**0.0155**		**0.017**	
66	59	Chromium (6010)	0.005	U	0.005	U	**0.008**		0.005	U	**0.0147**		**0.0229**		**0.0059**		0.001	U
67	60	Copper (6010)	0.002	U	0.002	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	0.001	U	0.001	U	**0.0015**		**0.0012**		**0.00079**		**0.00076**		**0.00141**		0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.0021**	
70	63	Zinc (6010)	0.006	U	**0.007**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.0056**	
71	64																	
72	65	**MAJOR IONS AND CONVENTIONALS**																
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**130**		**140**		**173**		**179**		**199**		**168**		**177**		**203**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.3**		**1.3**		**1.35**		**1.41**		**1.2**		**1.35**		**1.6**		**1.47**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA	
86	79																	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2					Dup of LW30S													
3			LW30S		X		LW30S		LW30S		LW30S		LW30S		LW30S		LW30S	
4			FZ04E		FZ04L		0402085-01		0406050-08		0408020-04		0411047-04		0502059-03		P5F0441-07	
5			10/27/03		10/27/03		2/18/04		6/8/04		8/03/04		11/8/04		2/15/05		6/9/05	
87	80	**FIELD PARAMETERS**																
88	81	pH (avg)	6.59		6.59		6.64		6.67		6.06		6.84		6.94		6.26	
89	82	Temperature (° C) (avg)	14.7		14.7		13.5		13.6		15.5		14.3		12.9		13.8	
90	83	Conductivity (um/hos)	192		193		239		210		298		176		180		325	
91	84	Dissolved oxygen (mg/L) (avg)	2.46		2.27		1.22		2.55		2.24		0.31		5.08		7.41	
92	85																	
93	86	**DIOXINS AND FURANS (ng/L)**																
94	87	**Method 8290**																
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA	
120																		
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA	
122																		

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2					Dup of LW30S													
3			LW30S		X		LW30S		LW30S		LW30S		LW30S		LW30S		LW30S	
4			FZ04E		FZ04L		0402085-01		0406050-08		0408020-04		0411047-04		0502059-03		P5F0441-07	
5			10/27/03		10/27/03		2/18/04		6/8/04		8/03/04		11/8/04		2/15/05		6/9/05	
123		**PAHs (µg/L)**																
124		**EPA Method SW8270 SIM**																
125		Naphthalene	0.11	U	0.11	U	**0.379**		**0.51**		**0.55**		**0.308**		**0.261**		0.800	U
126		2-Methylnaphthalene	0.11	U	0.11	U	NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	0.11	U	0.11	U	**0.126**		**0.19**		**0.32**		**0.0866**		**0.0965**		2.00	U
128		Acenaphthene	0.84		0.84		**0.864**		**0.83**		**0.64**		**0.404**		**0.425**		2.00	U
129		Fluorene	1.6		1.7		**1.38**		**1.54**		**1.15**		**0.799**		**0.772**		2.00	U
130		Anthracene	0.11	U	0.11	U	**0.0583**		**0.08**		**0.09**		**0.0481**		**0.0579**		0.100	U
131		Dibenzofuran	0.8		0.82		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW31S		LW31S		LW31S		LW31S		LW31S		LW31S		LW31S	
4			FZ04G		0402080-03		0406050-02		0408006-02		0411052-02		0502056-01		P5F0441-11	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04		2/14/05		6/9/05	
6																
7	1	**CHLORINATED PHENOLS (µg/L)**														
8	2	**EPA Method SW8040**														
9	3	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
16	10															
17	11	**SEMIVOLATILES (µg/L)**														
18	12	**EPA Method SW8270**														
19	13	Phenol	2	U	1.93	U	1.9	U	1.9	U	1.97	U	1.93	U	5.00	U
20	14	4-Methylphenol	1	U	9.66	U	9.52	U	9.52	U	9.85	U	9.65	U	5.00	U
21	15	Isophorone	1	U	0.966	U	0.952	U	0.952	U	0.985	U	0.965	U	5.00	U
22	16	2,4-Dimethylphenol	3	U	2.9	U	2.86	U	2.86	U	2.96	U	2.9	U	10.00	U
23	17	Benzoic Acid	10	U	19.3	U	19	U	19	U	19.7	U	19.3	U	50.0	U
24	18	Naphthalene	1	U	0.966	U	0.952	U	0.952	U	0.985	U	0.965	U	5.00	U
25	19	2-Methylnaphthalene	1	U	0.966	U	0.952	U	0.952	U	0.985	U	0.965	U	5.00	U
26	20	2,4,6-Trichlorophenol	5.1	U	4.83	U	4.76	U	4.76	U	4.93	U	4.83	U	5.00	U
27	21	2,4,5-Trichlorophenol	5.1	U	4.83	U	4.76	U	4.76	U	4.93	U	4.83	U	5.00	U
28	22	Acenaphthene	1	U	0.966	U	0.952	U	0.952	U	0.985	U	0.965	U	5.00	U
29	23	Dibenzofuran	1	U	0.966	U	0.952	U	0.952	U	0.985	U	0.965	U	5.00	U
30	24	Fluorene	1	U	0.966	U	0.952	U	0.952	U	0.985	U	0.965	U	5.00	U
31	25	Pentachlorophenol	5.1	U	4.83	U	4.76	U	4.76	U	4.93	U	4.83	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	**2.4**		0.966	U	0.952	U	0.952	U	0.985	U	0.965	U	10.00	U
33	27															
34	28	**VOLATILES (µg/L)**														
35	29	**EPA Method SW8260**														
36	30	Acetone	5	U	50	UJ	50	U	50	U	50	U	50	U	25.0	U
37	31	Carbon Disulfide	1	U	2	UJ	2	U	2	U	2	U	2	U	10.00	U
38	32	2-Butanone	5	U	10	UJ	10	U	10	U	10	U	10	U	10.00	U
39	33	Benzene	1	U	0.4	UJ	0.3	U	0.3	U	0.3	U	0.3	U	1.00	U
40	34	Bromoform	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
41	35	Toluene	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
42	36	Ethylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
43	37	Styrene	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
44	38	m,p-Xylene	1	U	2	UJ	2	U	2	U	2	U	2	U	2.00	U
45	39	o-Xylene	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
46	40	1,3,5-Trimethylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
47	41	1,2,4-Trimethylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
48	42	Isopropylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	2.00	U
49	43	n-Propylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
50	44	tert-Butylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
51	45	sec-Butylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
52	46	4-Isopropyltoluene	1	U	1	UJ	1	U	1	U	1	U	1	U	2.00	U
53	47	n-Butylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	5.00	U
54	48	Naphthalene	5	U	1	UJ	1	U	1	U	1	U	1	U	2.00	U
55	48.5	Methyl tert-butyl ether	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
56	49															
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**														
58	51	**Method OR-DEQ**														
59	52	**TPH-Diesel**	**0.59**		0.242	U	**0.469**		**0.576**		**0.568**		**0.261**		0.25	U
60	53	**TPH-D Motor Oil**	0.5	U	0.483	U	0.492	U	0.475	U	**0.593**		0.5	U	0.5	U
61	54	**TPH-Gasoline**	0.25	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.08	U
62	55															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW31S		LW31S		LW31S		LW31S		LW31S		LW31S		LW31S	
4			FZ04G		0402080-03		0406050-02		0408006-02		0411052-02		0502056-01		P5F0441-11	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04		2/14/05		6/9/05	
63	56	**PRIORITY POLLUTANT**														
64	57	**METALS (mg/L)**														
65	58	Arsenic (7060)	0.001	U	0.001	U	0.001	U	0.00148	U	**0.00136**		**0.00109**		0.001	U
66	59	Chromium (6010)	0.005	U	0.005	U	**0.0187**		**0.0138**		**0.0182**		**0.0056**		0.001	U
67	60	Copper (6010)	0.002	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	0.001	U	0.0001	U	0.0001	U	0.0001	U	**0.00018**		0.0001	U	0.001	U
69	62	Nickel (6010)	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.0024**	
70	63	Zinc (6010)	**0.008**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.005	U
71	64															
72	65	**MAJOR IONS AND CONVENTIONALS**														
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**140**		**101**		**143**		**100**		**160**		**124**		**112**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.7**		**1.08**		**2.53**		**2.96**		**1.82**		**1.63**		**1.19**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA	
86	79															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW31S		LW31S		LW31S		LW31S		LW31S		LW31S		LW31S	
4			FZ04G		0402080-03		0406050-02		0408006-02		0411052-02		0502056-01		P5F0441-11	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04		2/14/05		6/9/05	
87	80	**FIELD PARAMETERS**														
88	81	pH (avg)	5.90		6.15		5.86		5.7		6.38		6.48		5.96	
89	82	Temperature (° C) (avg)	14.7		12.8		13		15.2		14.3		11.6		13.9	
90	83	Conductivity (um/hos)	187		98		128		215		161		94		126	
91	84	Dissolved oxygen (mg/L) (avg)	3.10		4.42		2.6		NM		1.98		1.71		10.08	
92	85															
93	86	**DIOXINS AND FURANS (ng/L)**														
94	87	**Method 8290**														
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA	
120																
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA	
122																

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW31S		LW31S		LW31S		LW31S		LW31S		LW31S		LW31S	
4			FZ04G		0402080-03		0406050-02		0408006-02		0411052-02		0502056-01		P5F0441-11	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04		2/14/05		6/9/05	
123		**PAHs (µg/L)**														
124		**EPA Method SW8270 SIM**														
125		Naphthalene	0.1	U	0.0486	UJ	0.05	U	0.05	U	0.0521	U	0.0479	U	0.111	U
126		2-Methylnaphthalene	0.1	U	NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	0.1	U	0.0486	UJ	0.05	U	0.05	U	0.0521	U	0.0479	U	0.111	U
128		Acenaphthene	0.1	U	0.0486	UJ	0.05	U	0.05	U	0.0521	U	0.0479	U	0.111	U
129		Fluorene	0.1	U	0.0486	UJ	0.05	U	0.05	U	0.0521	U	0.0479	U	0.111	U
130		Anthracene	0.1	U	0.0486	UJ	0.05	U	0.05	U	0.0521	U	0.0479	U	0.111	U
131		Dibenzofuran	0.1	U	NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW32S		LW32S		LW32S		LW32S		LW32S		LW32S		LW32S	
4			FZ04H		0402080-05		0406050-04		0408006-04		0411052-03		0502056-04		P5F0343-01	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04		2/14/05		6/8/05	
6																
7	1	**CHLORINATED PHENOLS (µg/L)**														
8	2	**EPA Method SW8040**														
9	3	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
16	10															
17	11	**SEMIVOLATILES (µg/L)**														
18	12	**EPA Method SW8270**														
19	13	Phenol	2.1	U	1.96	U	1.99	U	1.94	U	1.98	U	1.97	U	5.00	U
20	14	4-Methylphenol	1	U	9.8	U	9.93	U	9.7	U	9.91	U	9.86	U	5.00	U
21	15	Isophorone	1	U	0.98	U	0.993	U	0.97	U	0.991	U	0.986	U	5.00	U
22	16	2,4-Dimethylphenol	3.1	U	2.94	U	2.98	U	2.91	U	2.97	U	2.96	U	10.00	U
23	17	Benzoic Acid	10	U	19.6	U	19.9	U	19.4	U	19.8	U	19.7	U	50.0	U
24	18	Naphthalene	1	U	0.98	U	0.993	U	0.97	U	0.991	U	0.986	U	5.00	U
25	19	2-Methylnaphthalene	1	U	0.98	U	0.993	U	0.97	U	0.991	U	0.986	U	5.00	U
26	20	2,4,6-Trichlorophenol	5.2	U	4.9	U	4.97	U	4.85	U	4.96	U	4.93	U	5.00	U
27	21	2,4,5-Trichlorophenol	5.2	U	4.9	U	4.97	U	4.85	U	4.96	U	4.93	U	5.00	U
28	22	Acenaphthene	1	U	0.98	U	0.993	U	0.97	U	0.991	U	0.986	U	5.00	U
29	23	Dibenzofuran	1	U	0.98	U	0.993	U	0.97	U	0.991	U	0.986	U	5.00	U
30	24	Fluorene	1	U	0.98	U	0.993	U	0.97	U	0.991	U	0.986	U	5.00	U
31	25	Pentachlorophenol	5.2	U	4.9	U	4.97	U	4.85	U	4.96	U	4.93	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	**2.1**		0.98	U	0.993	U	0.97	U	0.991	U	0.986	U	**549**	
33	27															
34	28	**VOLATILES (µg/L)**														
35	29	**EPA Method SW8260**														
36	30	Acetone	5	U	50	UJ	50	U	50	U	50	U	50	U	25.0	U
37	31	Carbon Disulfide	1	U	2	UJ	2	U	2	U	2	U	2	U	10.00	U
38	32	2-Butanone	5	U	10	UJ	10	U	10	U	10	U	10	U	10.00	U
39	33	Benzene	1	U	0.4	UJ	0.3	U	0.3	U	0.3	U	0.3	U	1.00	U
40	34	Bromoform	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
41	35	Toluene	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
42	36	Ethylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
43	37	Styrene	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
44	38	m,p-Xylene	1	U	2	UJ	2	U	2	U	2	U	2	U	2.00	U
45	39	o-Xylene	1	U	1	UJ	1	U	1	U	**1.6**		1	U	1.00	U
46	40	1,3,5-Trimethylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
47	41	1,2,4-Trimethylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
48	42	Isopropylbenzene	**18**		**4.27**	J	**7.05**		**19.4**	J	**37.5**		**40.2**		**10.6**	
49	43	n-Propylbenzene	**20**		**4.87**	J	**9.16**		**20.5**	J	**50.6**		**55.9**		**11.6**	
50	44	tert-Butylbenzene	**1**		1	UJ	1	U	1	U	**1.58**		**3.84**		**1.09**	
51	45	sec-Butylbenzene	**6.5**		**2.52**	J	**3.73**		**8.65**	J	**12**		**20.6**		**6.19**	
52	46	4-Isopropyltoluene	1	U	1	UJ	1	U	1	U	1	U	1	U	2.00	U
53	47	n-Butylbenzene	**6.1**		**2.24**	J	**2.69**		**8.47**	J	**10.7**		**18.2**		**5.70**	
54	48	Naphthalene	5	U	1	UJ	1	U	1	U	1	U	**3.36**		2.00	U
55	48.5	Methyl tert-butyl ether	1	U	1	UJ	1	U	1	U	1	U	1	U	1.00	U
56	49															
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**														
58	51	**Method OR-DEQ**														
59	52	**TPH-Diesel**	**3.3**		**1.84**		**3.48**		**4.24**		**4.44**		**3.13**		**0.562**	
60	53	**TPH-D Motor Oil**	0.5	U	0.488	U	0.5	U	0.488	U	**0.721**		0.5	U	0.5	U
61	54	**TPH-Gasoline**	**1.8**		**1.1**		**1.17**		**1.33**		**2.87**		**4.67**		**0.971**	
62	55															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW32S		LW32S		LW32S		LW32S		LW32S		LW32S		LW32S	
4			FZ04H		0402080-05		0406050-04		0408006-04		0411052-03		0502056-04		P5F0343-01	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04		2/14/05		6/8/05	
63	56	**PRIORITY POLLUTANT**														
64	57	**METALS (mg/L)**														
65	58	Arsenic (7060)	**0.034**		**0.023**		**0.026**		**0.0314**		**0.0303**		**0.0302**		**0.0202**	
66	59	Chromium (6010)	0.005	U	**0.0124**		**0.0162**		**0.0125**		**0.0175**		0.005	U	0.001	U
67	60	Copper (6010)	0.002	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	0.001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.001	U
69	62	Nickel (6010)	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.0147**	
70	63	Zinc (6010)	**0.008**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.005	U
71	64															
72	65	**MAJOR IONS AND CONVENTIONALS**														
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**250**		**196**		**232**		**290**		**273**		**252**		**273**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.8**		**1.71**		**3.19**		**27**		**2.39**		**2.2**		**7.28**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA	
86	79															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW32S		LW32S		LW32S		LW32S		LW32S		LW32S		LW32S	
4			FZ04H		0402080-05		0406050-04		0408006-04		0411052-03		0502056-04		P5F0343-01	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04		2/14/05		6/8/05	
87	80	**FIELD PARAMETERS**														
88	81	pH (avg)	6.35		6.46		6.36		6.09		6.71		6.78		6.36	
89	82	Temperature (° C) (avg)	14.6		12.8		13.4		14.4		14.4		13.1		12.8	
90	83	Conductivity (um/hos)	409		265		316		637		380		248		467	
91	84	Dissolved oxygen (mg/L) (avg)	1.65		1.65		1.45		NM		1.32		0.1		5.60	
92	85															
93	86	**DIOXINS AND FURANS (ng/L)**														
94	87	**Method 8290**														
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA	
120																
121		**ETHANOL (mg/L)**					NA		NA		NA		NA		NA	
122																

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW32S		LW32S		LW32S		LW32S		LW32S		LW32S		LW32S	
4			FZ04H		0402080-05		0406050-04		0408006-04		0411052-03		0502056-04		P5F0343-01	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04		2/14/05		6/8/05	
123		**PAHs (µg/L)**														
124		**EPA Method SW8270 SIM**														
125		Naphthalene	0.1	U	**0.498**	J	**0.63**		**1.78**		**0.9**		**1.09**		2.00	U
126		2-Methylnaphthalene	0.1	U	NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	0.1	U	**0.0976**	J	**0.08**		**0.4**		**0.108**		**0.189**		2.00	U
128		Acenaphthene	0.52		**0.38**	J	**0.3**		0.05	U	**0.47**		**0.726**		2.00	U
129		Fluorene	0.67		**0.488**	J	**0.36**		**0.1**		**0.705**		**0.905**		2.00	U
130		Anthracene	0.1	U	0.0488	UJ	**0.05**		**0.1**		0.0489	U	0.0497	U	0.100	U
131		Dibenzofuran	0.38		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW33S		LW33S		LW33S		LW33S		LW33S	
4			0402080-04		0406050-03		0408006-03		0502099-06		P5F0343-03	
5			2/17/04		6/8/04		8/02/04		2/22/05		6/8/05	
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	1.94	U	1.94	U	1.93	U	1.94	U	5.00	U
20	14	4-Methylphenol	9.68	U	9.71	U	9.64	U	9.68	U	5.00	U
21	15	Isophorone	0.968	U	0.971	U	0.964	U	0.968	U	5.00	U
22	16	2,4-Dimethylphenol	2.9	U	2.91	U	2.89	U	2.9	U	10.00	U
23	17	Benzoic Acid	19.4	U	19.4	U	19.3	U	19.4	U	50.0	U
24	18	Naphthalene	0.968	U	0.971	U	0.964	U	0.968	U	5.00	U
25	19	2-Methylnaphthalene	0.968	U	0.971	U	0.964	U	0.968	U	5.00	U
26	20	2,4,6-Trichlorophenol	4.84	U	4.85	U	4.82	U	4.84	U	5.00	U
27	21	2,4,5-Trichlorophenol	4.84	U	4.85	U	4.82	U	4.84	U	5.00	U
28	22	Acenaphthene	0.968	U	0.971	U	0.964	U	0.968	U	5.00	U
29	23	Dibenzofuran	0.968	U	0.971	U	0.964	U	0.968	U	5.00	U
30	24	Fluorene	0.968	U	0.971	U	0.964	U	0.968	U	5.00	U
31	25	Pentachlorophenol	4.84	U	4.85	U	4.82	U	4.84	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	0.968	U	0.971	U	**1.99**		0.968	U	10.00	U
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	50	U	50	U	50	U	50	U	25.0	U
37	31	Carbon Disulfide	2	U	2	U	2	U	2	U	10.00	U
38	32	2-Butanone	10	U	10	U	10	U	10	U	10.00	U
39	33	Benzene	0.4	U	0.3	U	0.3	U	0.3	U	1.00	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1.00	U
41	35	Toluene	1	U	1	U	1	U	1	U	1.00	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1.00	U
43	37	Styrene	1	U	1	U	1	U	1	U	1.00	U
44	38	m,p-Xylene	2	U	2	U	2	U	2	U	2.00	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	1.00	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1.00	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1.00	U
48	42	Isopropylbenzene	1	U	1	U	1	U	1	U	2.00	U
49	43	n-Propylbenzene	1	U	1	U	1	U	1	U	1.00	U
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1.00	U
51	45	sec-Butylbenzene	1	U	1	U	1	U	1	U	1.00	U
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	2.00	U
53	47	n-Butylbenzene	1	U	1	U	1	U	1	U	5.00	U
54	48	Naphthalene	1	U	1	U	1	U	1	U	2.00	U
55	48.5	Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1.00	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	0.247	U	0.244	U	0.241	U	0.243	U	0.25	U
60	53	**TPH-D Motor Oil**	0.494	U	0.487	U	0.482	U	0.669	U	0.5	U
61	54	**TPH-Gasoline**	0.1	U	0.1	U	0.1	U	0.1	U	0.08	U
62	55											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW33S		LW33S		LW33S		LW33S		LW33S	
4			0402080-04		0406050-03		0408006-03		0502099-06		P5F0343-03	
5			2/17/04		6/8/04		8/02/04		2/22/05		6/8/05	
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
66	59	Chromium (6010)	**0.0113**		0.005	U	0.005	U	**0.0079**		0.001	U
67	60	Copper (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	0.0001	U	0.0001	U	0.0001	U	**0.000251**		0.001	U
69	62	Nickel (6010)	0.005	U	0.005	U	0.005	U	0.005	U	**0.0027**	
70	63	Zinc (6010)	**0.0111**		0.01	U	0.01	U	0.01	U	0.005	U
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**105**		**150**		**100**		**135**		**130**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.39**		**1.93**		**2.19**		**1.42**		**1.74**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW33S		LW33S		LW33S		LW33S		LW33S	
4			0402080-04		0406050-03		0408006-03		0502099-06		P5F0343-03	
5			2/17/04		6/8/04		8/02/04		2/22/05		6/8/05	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.18		6.08		5.23		6.85		6.53	
89	82	Temperature (° C) (avg)	11.7		14.2		16.8		13.1		15.0	
90	83	Conductivity (um/hos)	113		140		235		77		123	
91	84	Dissolved oxygen (mg/L) (avg)	4.61		1.85		NM		1.94		4.44	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA	
122												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW33S		LW33S		LW33S		LW33S		LW33S	
4			0402080-04		0406050-03		0408006-03		0502099-06		P5F0343-03	
5			2/17/04		6/8/04		8/02/04		2/22/05		6/8/05	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.0483	UJ	0.05	U	0.05	U	0.0486	U	0.111	U
126		2-Methylnaphthalene	NA		NA		NA		NA		NA	
127		Acenaphthylene	0.0483	UJ	0.05	U	0.05	U	0.0486	U	0.111	U
128		Acenaphthene	0.0483	UJ	0.05	U	0.05	U	0.0486	U	0.111	U
129		Fluorene	0.0483	UJ	0.05	U	0.05	U	0.0486	U	0.111	U
130		Anthracene	0.0483	UJ	0.05	U	**0.05**		0.0486	U	0.111	U
131		Dibenzofuran	NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW34S		LW34S		LW34S		LW34S		LW34S		LW34S		LW34S	
4			FZ04J		0402080-01		0406050-01		0408006-01		0411047-01		0502099-07		P5F0441-06	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04		2/22/05		6/9/05	
6																
7	1	**CHLORINATED PHENOLS (µg/L)**														
8	2	**EPA Method SW8040**														
9	3	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
16	10															
17	11	**SEMIVOLATILES (µg/L)**														
18	12	**EPA Method SW8270**														
19	13	Phenol	2	U	1.93	U	1.97	U	1.97	U	2	U	1.92	U	5.00	U
20	14	4-Methylphenol	1	U	9.65	U	9.85	U	9.83	U	10	U	9.62	U	5.00	U
21	15	Isophorone	1	U	0.965	U	0.985	U	0.983	U	1	U	0.962	U	5.00	U
22	16	2,4-Dimethylphenol	3.1	U	2.9	U	2.96	U	2.95	U	3	U	2.88	U	10.00	U
23	17	Benzoic Acid	10	U	19.3	U	19.7	U	19.7	U	20	U	19.2	U	50.0	U
24	18	Naphthalene	1	U	0.965	U	0.985	U	0.983	U	1	U	0.962	U	5.00	U
25	19	2-Methylnaphthalene	1	U	0.965	U	0.985	U	0.983	U	1	U	0.962	U	5.00	U
26	20	2,4,6-Trichlorophenol	5.1	U	4.83	U	4.93	U	4.92	U	5	U	4.81	U	5.00	U
27	21	2,4,5-Trichlorophenol	5.1	U	4.83	U	4.93	U	4.92	U	5	U	4.81	U	5.00	U
28	22	Acenaphthene	1	U	0.965	U	0.985	U	0.983	U	1	U	0.962	U	5.00	U
29	23	Dibenzofuran	1	U	0.965	U	0.985	U	0.983	U	1	U	0.962	U	5.00	U
30	24	Fluorene	1	U	0.965	U	0.985	U	0.983	U	1	U	0.962	U	5.00	U
31	25	Pentachlorophenol	5.1	U	4.83	U	4.93	U	4.92	U	5	U	4.81	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	**4.9**		0.965	U	0.985	U	0.983	U	1	U	0.962	U	10.00	U
33	27															
34	28	**VOLATILES (µg/L)**														
35	29	**EPA Method SW8260**														
36	30	Acetone	5	U	50	U	50	U	50	U	50	U	50	U	25.0	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U	2	U	10.00	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U	10	U	10.00	U
39	33	Benzene	1	U	0.4	U	0.3	U	0.3	U	0.3	U	0.3	U	1.00	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
44	38	m,p-Xylene	1	U	2	U	2	U	2	U	2	U	2	U	2.00	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
48	42	Isopropylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
49	43	n-Propylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
51	45	sec-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U	1	U	2.00	U
53	47	n-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	5.00	U
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U	1	U	2.00	U
55	48.5	Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U	1	U	1.00	U
56	49															
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**														
58	51	**Method OR-DEQ**														
59	52	**TPH-Diesel**	0.25	U	0.242	U	0.242	U	0.242	U	0.251	U	0.248	U	0.25	U
60	53	**TPH-D Motor Oil**	0.5	U	0.484	U	0.484	U	0.483	U	0.501	U	0.495	U	0.5	U
61	54	**TPH-Gasoline**	0.25	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.08	U
62	55															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW34S		LW34S		LW34S		LW34S		LW34S		LW34S		LW34S	
4			FZ04J		0402080-01		0406050-01		0408006-01		0411047-01		0502099-07		P5F0441-06	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04		2/22/05		6/9/05	
63	56	**PRIORITY POLLUTANT**														
64	57	**METALS (mg/L)**														
65	58	Arsenic (7060)	**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	**0.0116**		0.005	U	**0.008**		0.001	U
67	60	Copper (6010)	0.002	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	0.001	U	0.0001	U	**0.0002**		0.0001	U	0.00015	U	0.0001	U	0.001	U
69	62	Nickel (6010)	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.00377**	
70	63	Zinc (6010)	**0.009**		0.01	U	0.01	U	**0.0133**		0.01	U	0.01	U	0.005	U
71	64															
72	65	**MAJOR IONS AND CONVENTIONALS**														
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**180**		**121**		**201**		**149**		**201**		**195**		**175**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.9**		**1.29**		**2.85**		**2.98**		**2.62**		**2.72**		**1.83**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA	
86	79															

BZTO104(e)021888

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW34S		LW34S		LW34S		LW34S		LW34S		LW34S		LW34S	
4			FZ04J		0402080-01		0406050-01		0408006-01		0411047-01		0502099-07		P5F0441-06	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04		2/22/05		6/9/05	
87	80	**FIELD PARAMETERS**														
88	81	pH (avg)	6.01		6.42		6.03		6.41		5.8		6.58		6.22	
89	82	Temperature (° C) (avg)	15.4		12.2		13.8		15		15.1		13.5		15.3	
90	83	Conductivity (um/hos)	234		142		218		303		207		167		167	
91	84	Dissolved oxygen (mg/L) (avg)	2.62		5.01		1.43		NM		1.38		1.12		4.66	
92	85															
93	86	**DIOXINS AND FURANS (ng/L)**														
94	87	**Method 8290**														
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA	
120																
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA	
122																

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			LW34S		LW34S		LW34S		LW34S		LW34S		LW34S		LW34S	
4			FZ04J		0402080-01		0406050-01		0408006-01		0411047-01		0502099-07		P5F0441-06	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04		2/22/05		6/9/05	
123		**PAHs (µg/L)**														
124		**EPA Method SW8270 SIM**														
125		Naphthalene	0.1	U	0.049	UJ	0.05	U	0.05	U	0.0498	U	0.0489	U	0.100	U
126		2-Methylnaphthalene	0.1	U	NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	0.1	U	0.049	UJ	0.05	U	0.05	U	0.0498	U	0.0489	U	0.100	U
128		Acenaphthene	0.1	U	0.049	UJ	0.05	U	0.05	U	0.0498	U	0.0489	U	0.100	U
129		Fluorene	0.1	U	0.049	UJ	0.05	U	0.05	U	0.0498	U	0.0489	U	0.100	U
130		Anthracene	0.1	U	0.049	UJ	0.05	U	0.05	U	0.0498	U	0.0489	U	0.100	U
131		Dibenzofuran	0.1	U	NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW42S		LW40S	
4			0411047-06		P5F0554-04	
5			11/8/04		6/13/05	
6						
7	1	**CHLORINATED PHENOLS (µg/L)**				
8	2	**EPA Method SW8040**				
9	3	Pentachlorophenol	5.13		NA	
10	4	2,4,6-Trichlorophenol	NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA	
16	10					
17	11	**SEMIVOLATILES (µg/L)**				
18	12	**EPA Method SW8270**				
19	13	Phenol	2.05		5.00	U
20	14	4-Methylphenol	10.3		5.00	U
21	15	Isophorone	1.03		5.00	U
22	16	2,4-Dimethylphenol	3.08		10.00	U
23	17	Benzoic Acid	20.5		50.0	U
24	18	Naphthalene	1.03		5.00	U
25	19	2-Methylnaphthalene	1.03		5.00	U
26	20	2,4,6-Trichlorophenol	5.13		5.00	U
27	21	2,4,5-Trichlorophenol	5.13		5.00	U
28	22	Acenaphthene	**1.59**		5.00	U
29	23	Dibenzofuran	1.03		5.00	U
30	24	Fluorene	**3.36**		5.00	U
31	25	Pentachlorophenol	NA		10	U
32	26	bis(2-Ethylhexyl)phthalate	1.03		10.00	U
33	27					
34	28	**VOLATILES (µg/L)**				
35	29	**EPA Method SW8260**				
36	30	Acetone	50		25.0	U
37	31	Carbon Disulfide	2		10.00	U
38	32	2-Butanone	10		10.00	U
39	33	Benzene	**1.22**		1.00	U
40	34	Bromoform	1		1.00	U
41	35	Toluene	1		1.00	U
42	36	Ethylbenzene	1		1.00	U
43	37	Styrene	1		1.00	U
44	38	m,p-Xylene	2		2.00	U
45	39	o-Xylene	1		1.00	U
46	40	1,3,5-Trimethylbenzene	1		1.00	U
47	41	1,2,4-Trimethylbenzene	1		1.00	U
48	42	Isopropylbenzene	**8.96**		2.00	U
49	43	n-Propylbenzene	**41.1**		1.00	U
50	44	tert-Butylbenzene	1		1.00	U
51	45	sec-Butylbenzene	**3.67**		1.00	U
52	46	4-Isopropyltoluene	1		2.00	U
53	47	n-Butylbenzene	**9.75**		5.00	U
54	48	Naphthalene	1		2.00	U
55	48.5	Methyl tert-butyl ether	1		1.00	U
56	49					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**				
58	51	**Method OR-DEQ**				
59	52	**TPH-Diesel**	**2.23**		0.25	UJ
60	53	**TPH-D Motor Oil**	0.505		0.5	UJ
61	54	**TPH-Gasoline**	**1.72**		0.08	U
62	55					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW42S		LW40S	
4			0411047-06		P5F0554-04	
5			11/8/04		6/13/05	
63	56	**PRIORITY POLLUTANT**				
64	57	**METALS (mg/L)**				
65	58	Arsenic (7060)	**0.0152**		0.001	U
66	59	Chromium (6010)	**0.0215**		0.001	U
67	60	Copper (6010)	0.01		0.002	U
68	61	Lead (7421)	**0.00336**		0.001	U
69	62	Nickel (6010)	0.005		**0.00557**	
70	63	Zinc (6010)	0.01		0.005	U
71	64					
72	65	**MAJOR IONS AND CONVENTIONALS**				
73	66	Calcium (mg/L) (6010)	NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**235**		**184**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.05**		**1.39**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA	
86	79					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW42S		LW40S	
4			0411047-06		P5F0554-04	
5			11/8/04		6/13/05	
87	80	**FIELD PARAMETERS**				
88	81	pH (avg)	6.56		5.49	
89	82	Temperature (° C) (avg)	14.9		14.1	
90	83	Conductivity (um/hos)	283		126	
91	84	Dissolved oxygen (mg/L) (avg)	0.74		10.88	
92	85					
93	86	**DIOXINS AND FURANS (ng/L)**				
94	87	**Method 8290**				
95	88	2,3,7,8-TCDF	NA		NA	
96	89	Total TCDF	NA		NA	
97	90	2,3,7,8-TCDD	NA		NA	
98	91	Total TCDD	NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA	
101	94	Total PeCDF	NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA	
103	96	Total PeCDD	NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA	
108	101	Total HxCDF	NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA	
112	105	Total HxCDD	NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA	
115	108	Total HpCDF	NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA	
117	110	Total HpCDD	NA		NA	
118	111	OCDF	NA		NA	
119	112	OCDD	NA		NA	
120						
121		**ETHANOL (mg/L)**	NA		NA	
122						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW42S		LW40S	
4			0411047-06		P5F0554-04	
5			11/8/04		6/13/05	
123		**PAHs (µg/L)**				
124		**EPA Method SW8270 SIM**				
125		Naphthalene	**0.401**		0.100	U
126		2-Methylnaphthalene	NA		NA	
127		Acenaphthylene	**0.245**		0.100	U
128		Acenaphthene	**1.09**		0.100	U
129		Fluorene	**2.75**		0.100	U
130		Anthracene	**0.137**		0.100	U
131		Dibenzofuran	NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW42S		LW41S	
4			0411047-06		P5F0441-01	
5			11/8/04		6/8/05	
6						
7	1	**CHLORINATED PHENOLS (µg/L)**				
8	2	**EPA Method SW8040**				
9	3	Pentachlorophenol	5.13		NA	
10	4	2,4,6-Trichlorophenol	NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA	
16	10					
17	11	**SEMIVOLATILES (µg/L)**				
18	12	**EPA Method SW8270**				
19	13	Phenol	2.05		5.00	U
20	14	4-Methylphenol	10.3		5.00	U
21	15	Isophorone	1.03		5.00	U
22	16	2,4-Dimethylphenol	3.08		10.00	U
23	17	Benzoic Acid	20.5		50.0	U
24	18	Naphthalene	1.03		5.00	U
25	19	2-Methylnaphthalene	1.03		5.00	U
26	20	2,4,6-Trichlorophenol	5.13		5.00	U
27	21	2,4,5-Trichlorophenol	5.13		5.00	U
28	22	Acenaphthene	**1.59**		5.00	U
29	23	Dibenzofuran	1.03		5.00	U
30	24	Fluorene	**3.36**		5.00	U
31	25	Pentachlorophenol	NA		10	U
32	26	bis(2-Ethylhexyl)phthalate	1.03		10.00	U
33	27					
34	28	**VOLATILES (µg/L)**				
35	29	**EPA Method SW8260**				
36	30	Acetone	50		25.0	U
37	31	Carbon Disulfide	2		10.00	U
38	32	2-Butanone	10		10.00	U
39	33	Benzene	**1.22**		1.00	U
40	34	Bromoform	1		1.00	U
41	35	Toluene	1		1.00	U
42	36	Ethylbenzene	1		1.00	U
43	37	Styrene	1		1.00	U
44	38	m,p-Xylene	2		2.00	U
45	39	o-Xylene	1		1.00	U
46	40	1,3,5-Trimethylbenzene	1		1.00	U
47	41	1,2,4-Trimethylbenzene	1		1.00	U
48	42	Isopropylbenzene	**8.96**		2.00	U
49	43	n-Propylbenzene	**41.1**		1.00	U
50	44	tert-Butylbenzene	1		1.00	U
51	45	sec-Butylbenzene	**3.67**		1.00	U
52	46	4-Isopropyltoluene	1		2.00	U
53	47	n-Butylbenzene	**9.75**		5.00	U
54	48	Naphthalene	1		2.00	U
55	48.5	Methyl tert-butyl ether	1		1.00	U
56	49					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**				
58	51	**Method OR-DEQ**				
59	52	**TPH-Diesel**	**2.23**		0.25	U
60	53	**TPH-D Motor Oil**	0.505		0.5	U
61	54	**TPH-Gasoline**	**1.72**		0.08	U
62	55					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW42S		LW41S	
4			0411047-06		P5F0441-01	
5			11/8/04		6/8/05	
63	56	**PRIORITY POLLUTANT**				
64	57	**METALS (mg/L)**				
65	58	Arsenic (7060)	**0.0152**		0.001	U
66	59	Chromium (6010)	**0.0215**		0.001	U
67	60	Copper (6010)	0.01		0.002	U
68	61	Lead (7421)	**0.00336**		0.001	U
69	62	Nickel (6010)	0.005		0.002	U
70	63	Zinc (6010)	0.01		0.005	U
71	64					
72	65	**MAJOR IONS AND CONVENTIONALS**				
73	66	Calcium (mg/L) (6010)	NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**235**		**140**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.05**		**1.62**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA	
86	79					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW42S		LW41S	
4			0411047-06		P5F0441-01	
5			11/8/04		6/8/05	
87	80	**FIELD PARAMETERS**				
88	81	pH (avg)	6.56		6.64	
89	82	Temperature (° C) (avg)	14.9		16.1	
90	83	Conductivity (um/hos)	283		162	
91	84	Dissolved oxygen (mg/L) (avg)	0.74		2.93	
92	85					
93	86	**DIOXINS AND FURANS (ng/L)**				
94	87	**Method 8290**				
95	88	2,3,7,8-TCDF	NA		NA	
96	89	Total TCDF	NA		NA	
97	90	2,3,7,8-TCDD	NA		NA	
98	91	Total TCDD	NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA	
101	94	Total PeCDF	NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA	
103	96	Total PeCDD	NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA	
108	101	Total HxCDF	NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA	
112	105	Total HxCDD	NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA	
115	108	Total HpCDF	NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA	
117	110	Total HpCDD	NA		NA	
118	111	OCDF	NA		NA	
119	112	OCDD	NA		NA	
120						
121		**ETHANOL (mg/L)**	NA		NA	
122						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW42S		LW41S	
4			0411047-06		P5F0441-01	
5			11/8/04		6/8/05	
123		**PAHs (µg/L)**				
124		**EPA Method SW8270 SIM**				
125		Naphthalene	**0.401**		0.300	U
126		2-Methylnaphthalene	NA		NA	
127		Acenaphthylene	**0.245**		0.100	U
128		Acenaphthene	**1.09**		0.100	U
129		Fluorene	**2.75**		0.100	U
130		Anthracene	**0.137**		0.100	U
131		Dibenzofuran	NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2							Dup of LW42S				Dup of LW42S	
3			LW42S		LW42S		Z		LW42S		Z	
4			0411047-06		0502099-10		0502099-13		P5F0441-14		P5F0443-01	
5			11/8/04		2/22/05		2/22/05		6/10/05		6/10/05	
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2.05		1.97	U	1.95	U	5.00	U	5.00	U
20	14	4-Methylphenol	10.3		9.85	U	9.74	U	5.00	U	5.00	U
21	15	Isophorone	1.03		0.985	U	0.974	U	5.00	U	5.00	U
22	16	2,4-Dimethylphenol	3.08		2.96	U	2.92	U	10.00	U	10.00	U
23	17	Benzoic Acid	20.5		19.7	U	19.5	U	50.0	U	50.0	U
24	18	Naphthalene	1.03		0.985	U	0.974	U	5.00	U	5.00	U
25	19	2-Methylnaphthalene	1.03		0.985	U	0.974	U	5.00	U	5.00	U
26	20	2,4,6-Trichlorophenol	5.13		4.93	U	4.87	U	5.00	U	5.00	U
27	21	2,4,5-Trichlorophenol	5.13		4.93	U	4.87	U	5.00	U	5.00	U
28	22	Acenaphthene	**1.59**		**1.7**		**1.4**		5.00	U	5.00	U
29	23	Dibenzofuran	1.03		**1.86**		**1.80**		5.00	U	5.00	U
30	24	Fluorene	**3.36**		**3.63**		**3.47**		**6.93**		**6.91**	
31	25	Pentachlorophenol	5.13		4.93	U	4.87	U	10	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	1.03		0.985	U	0.974	U	10.00	U	10.00	U
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	50		50	U	50	U	25.0	U	25.0	U
37	31	Carbon Disulfide	2		2	U	2	U	10.00	U	10.00	U
38	32	2-Butanone	10		10	U	10	U	10.00	U	10.00	U
39	33	Benzene	**1.22**		0.3	U	0.3	U	1.00	U	1.00	U
40	34	Bromoform	1		1	U	1	U	1.00	U	1.00	U
41	35	Toluene	1		1	U	1	U	1.00	U	1.00	U
42	36	Ethylbenzene	1		1	U	1	U	1.00	U	1.00	U
43	37	Styrene	1		1	U	1	U	1.00	U	1.00	U
44	38	m,p-Xylene	2		2	U	2	U	2.00	U	2.00	U
45	39	o-Xylene	1		1	U	1	U	1.00	U	1.00	U
46	40	1,3,5-Trimethylbenzene	1		1	U	1	U	1.00	U	1.00	U
47	41	1,2,4-Trimethylbenzene	1		1	U	1	U	1.00	U	1.00	U
48	42	Isopropylbenzene	**8.96**		**14.3**		**13.2**		**19.2**		**20.9**	
49	43	n-Propylbenzene	**41.1**		**39.2**		**41.6**		**43.5**		**50.3**	
50	44	tert-Butylbenzene	1		1	U	1	U	1.00	U	1.00	U
51	45	sec-Butylbenzene	**3.67**		**4.77**		**4.32**		**5.01**	J	**6.26**	J
52	46	4-Isopropyltoluene	1		1	U	1	U	2.00	U	2.00	U
53	47	n-Butylbenzene	**9.75**		**11.6**		**2.16**		**7.44**		**10.4**	
54	48	Naphthalene	1		**1.81**		**2.16**		2.00	U	2.00	U
55	48.5	Methyl tert-butyl ether	1		1	U	1	U	1.00	U	1.00	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**2.23**		**3.74**	J	**2.98**	J	**1.27**		**1.15**	
60	53	**TPH-D Motor Oil**	0.505		1.13	U	0.484	U	0.5	U	0.5	U
61	54	**TPH-Gasoline**	**1.72**		**1.35**		**1.61**		**0.6**	J	**0.882**	J
62	55											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2							Dup of LW42S				Dup of LW42S	
3			LW42S		LW42S		Z		LW42S		Z	
4			0411047-06		0502099-10		0502099-13		P5F0441-14		P5F0443-01	
5			11/8/04		2/22/05		2/22/05		6/10/05		6/10/05	
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.0152**		**0.0192**		**0.0191**		**0.0233**		**0.0226**	
66	59	Chromium (6010)	**0.0215**		**0.0077**		0.005	U	0.001	U	0.001	U
67	60	Copper (6010)	0.01		0.01	U	0.01	U	0.002	U	0.002	U
68	61	Lead (7421)	**0.00336**		**0.00519**		**0.00514**		**0.00494**		**0.00505**	
69	62	Nickel (6010)	0.005		0.005	U	0.005	U	0.002	U	0.002	U
70	63	Zinc (6010)	0.01		0.01	U	0.01	U	0.005	U	0.005	U
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**235**		**230**		**223**		**226**		**220**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.05**		**1.48**		**1.50**		**1.38**		**1.59**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2							Dup of LW42S				Dup of LW42S	
3			LW42S		LW42S		Z		LW42S		Z	
4			0411047-06		0502099-10		0502099-13		P5F0441-14		P5F0443-01	
5			11/8/04		2/22/05		2/22/05		6/10/05		6/10/05	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.56		6.66		6.66		6.72		6.72	
89	82	Temperature (° C) (avg)	14.9		13.4		13.4		13.9		13.9	
90	83	Conductivity (um/hos)	283		172		172		293		293	
91	84	Dissolved oxygen (mg/L) (avg)	0.74		0.69		0.69		2.41		2.47	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA	
122												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2							Dup of LW42S				Dup of LW42S	
3			LW42S		LW42S		Z		LW42S		Z	
4			0411047-06		0502099-10		0502099-13		P5F0441-14		P5F0443-01	
5			11/8/04		2/22/05		2/22/05		6/10/05		6/10/05	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	**0.401**		0.68	U	0.771	U	1.20	U	2.00	U
126		2-Methylnaphthalene	NA		NA		NA		NA		NA	
127		Acenaphthylene	**0.245**		**0.554**		**0.605**		0.600	U	1.00	U
128		Acenaphthene	**1.09**		**2.04**		**2.11**		**2.45**		**2.38**	
129		Fluorene	**2.75**		**4.72**		**4.83**		**4.73**		**5.05**	
130		Anthracene	**0.137**		**0.243**		**0.224**		**0.183**		0.250	U
131		Dibenzofuran	NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW43S		LW43S		LW43S	
4			0411052-01		0502056-02		P5F0441-15	
5			11/9/04		2/14/05		6/10/05	
6								
7	1	**CHLORINATED PHENOLS (µg/L)**						
8	2	**EPA Method SW8040**						
9	3	Pentachlorophenol	NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA	
16	10							
17	11	**SEMIVOLATILES (µg/L)**						
18	12	**EPA Method SW8270**						
19	13	Phenol	2.01	U	2.02	U	5.00	U
20	14	4-Methylphenol	10	U	10.1	U	5.00	U
21	15	Isophorone	1	U	1.01	U	5.00	U
22	16	2,4-Dimethylphenol	3.01	U	3.03	U	10.00	U
23	17	Benzoic Acid	20.1	U	20.2	U	50.0	U
24	18	Naphthalene	1	U	1.01	U	5.00	U
25	19	2-Methylnaphthalene	1	U	1.01	U	5.00	U
26	20	2,4,6-Trichlorophenol	5.02	U	5.05	U	5.00	U
27	21	2,4,5-Trichlorophenol	5.02	U	5.05	U	5.00	U
28	22	Acenaphthene	**1.52**		1.01	U	5.00	U
29	23	Dibenzofuran	1	U	1.01	U	5.00	U
30	24	Fluorene	**3.24**		1.22	U	5.00	U
31	25	Pentachlorophenol	5.02	U	5.05	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	1	U	1.01	U	10.00	U
33	27							
34	28	**VOLATILES (µg/L)**						
35	29	**EPA Method SW8260**						
36	30	Acetone	50	U	50	U	25.0	U
37	31	Carbon Disulfide	2	U	2	U	10.00	U
38	32	2-Butanone	10	U	10	U	10.00	U
39	33	Benzene	**0.68**		0.3	U	1.00	U
40	34	Bromoform	1	U	1	U	1.00	U
41	35	Toluene	1	U	1	U	1.00	U
42	36	Ethylbenzene	1	U	1	U	1.00	U
43	37	Styrene	1	U	1	U	1.00	U
44	38	m,p-Xylene	2	U	2	U	2.00	U
45	39	o-Xylene	1	U	1	U	1.00	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1.00	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1.00	U
48	42	Isopropylbenzene	**6.94**		**5.59**		**11.1**	
49	43	n-Propylbenzene	**27.7**		**22.1**		**26.5**	
50	44	tert-Butylbenzene	1	U	**2.72**		1.00	U
51	45	sec-Butylbenzene	**2.42**		**3.84**		**2.81**	
52	46	4-Isopropyltoluene	1	U	1	U	2.00	U
53	47	n-Butylbenzene	**6.08**		**6.36**		5.00	U
54	48	Naphthalene	1	U	**4.04**		2.00	U
55	48.5	Methyl tert-butyl ether	1	U	1	U	1.00	U
56	49							
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**						
58	51	**Method OR-DEQ**						
59	52	**TPH-Diesel**	**1.91**		**2.34**		**0.588**	
60	53	**TPH-D Motor Oil**	**0.654**		0.5	U	0.5	U
61	54	**TPH-Gasoline**	**0.988**		**1.33**		**0.476**	
62	55							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW43S		LW43S		LW43S	
4			0411052-01		0502056-02		P5F0441-15	
5			11/9/04		2/14/05		6/10/05	
63	56	**PRIORITY POLLUTANT**						
64	57	**METALS (mg/L)**						
65	58	Arsenic (7060)	**0.0109**		**0.0148**		**0.0166**	
66	59	Chromium (6010)	**0.0176**		0.005	U	0.001	U
67	60	Copper (6010)	0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	**0.00068**		**0.000281**		0.001	U
69	62	Nickel (6010)	0.005	U	0.005	U	0.002	U
70	63	Zinc (6010)	0.01	U	**0.0262**		0.005	U
71	64							
72	65	**MAJOR IONS AND CONVENTIONALS**						
73	66	Calcium (mg/L) (6010)	NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**199**		**276**		**243**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.79**		**2.09**		**1.55**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA	
86	79							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW43S		LW43S		LW43S	
4			0411052-01		0502056-02		P5F0441-15	
5			11/9/04		2/14/05		6/10/05	
87	80	**FIELD PARAMETERS**						
88	81	pH (avg)	6.47		6.8		6.97	
89	82	Temperature (° C) (avg)	15.1		12.9		14.1	
90	83	Conductivity (um/hos)	255		283		294	
91	84	Dissolved oxygen (mg/L) (avg)	1.32		0.45		1.80	
92	85							
93	86	**DIOXINS AND FURANS (ng/L)**						
94	87	**Method 8290**						
95	88	2,3,7,8-TCDF	NA		NA		NA	
96	89	Total TCDF	NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA	
98	91	Total TCDD	NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA	
118	111	OCDF	NA		NA		NA	
119	112	OCDD	NA		NA		NA	
120								
121		**ETHANOL (mg/L)**	NA		NA		NA	
122								

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW43S		LW43S		LW43S	
4			0411052-01		0502056-02		P5F0441-15	
5			11/9/04		2/14/05		6/10/05	
123		**PAHs (µg/L)**						
124		**EPA Method SW8270 SIM**						
125		Naphthalene	**0.453**		**0.387**		0.650	U
126		2-Methylnaphthalene	NA		NA		NA	
127		Acenaphthylene	**0.306**		**0.163**		0.200	U
128		Acenaphthene	**1.32**		**0.703**		**1.01**	
129		Fluorene	**3.16**		**1.35**		**1.49**	
130		Anthracene	**0.126**		**0.0917**		0.100	U
131		Dibenzofuran	NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW44S		LW44S		LW44S	
4			0411047-07		0502099-11		P5F0441-10	
5			11/8/04		2/23/05		6/9/05	
6								
7	1	**CHLORINATED PHENOLS (µg/L)**						
8	2	**EPA Method SW8040**						
9	3	Pentachlorophenol	NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA	
16	10							
17	11	**SEMIVOLATILES (µg/L)**						
18	12	**EPA Method SW8270**						
19	13	Phenol	1.97	U	1.96	U	5.00	U
20	14	4-Methylphenol	9.86	U	9.78	U	**8.93**	
21	15	Isophorone	0.986	U	0.978	U	5.00	U
22	16	2,4-Dimethylphenol	2.96	U	2.93	U	10.00	U
23	17	Benzoic Acid	19.7	U	19.6	U	50.0	U
24	18	Naphthalene	0.986	U	0.978	U	5.00	U
25	19	2-Methylnaphthalene	0.986	U	0.978	U	5.00	U
26	20	2,4,6-Trichlorophenol	4.93	U	4.89	U	5.00	U
27	21	2,4,5-Trichlorophenol	4.93	U	4.89	U	5.00	U
28	22	Acenaphthene	0.986	U	0.978	U	5.00	U
29	23	Dibenzofuran	0.986	U	0.978	U	5.00	U
30	24	Fluorene	0.986	U	0.978	U	5.00	U
31	25	Pentachlorophenol	4.93	U	4.89	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	0.986	U	0.978	U	10.00	U
33	27							
34	28	**VOLATILES (µg/L)**						
35	29	**EPA Method SW8260**						
36	30	Acetone	50	U	50	U	25.0	U
37	31	Carbon Disulfide	2	U	2	U	10.00	U
38	32	2-Butanone	10	U	10	U	10.00	U
39	33	Benzene	0.3	U	0.3	U	1.00	U
40	34	Bromoform	1	U	1	U	1.00	U
41	35	Toluene	1	U	1	U	1.00	U
42	36	Ethylbenzene	1	U	1	U	1.00	U
43	37	Styrene	1	U	1	U	1.00	U
44	38	m,p-Xylene	2	U	2	U	2.00	U
45	39	o-Xylene	1	U	1	U	1.00	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1.00	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1.00	U
48	42	Isopropylbenzene	**78.9**		**65.9**		**23.6**	
49	43	n-Propylbenzene	**61.4**		**51**		**13.0**	
50	44	tert-Butylbenzene	**1.72**		1	U	1.00	U
51	45	sec-Butylbenzene	**11.9**		**8.93**		**1.17**	
52	46	4-Isopropyltoluene	1	U	1	U	2.00	U
53	47	n-Butylbenzene	**2.33**		**5.35**		5.00	U
54	48	Naphthalene	1	U	**6.14**		2.00	U
55	48.5	Methyl tert-butyl ether	1	U	1	U	1.00	U
56	49							
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**						
58	51	**Method OR-DEQ**						
59	52	**TPH-Diesel**	**3.77**		**9.38**		**0.779**	
60	53	**TPH-D Motor Oil**	0.502	U	0.488	U	0.5	U
61	54	**TPH-Gasoline**	**2.94**		**2.97**		**0.545**	
62	55							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW44S		LW44S		LW44S	
4			0411047-07		0502099-11		P5F0441-10	
5			11/8/04		2/23/05		6/9/05	
63	56	**PRIORITY POLLUTANT**						
64	57	**METALS (mg/L)**						
65	58	Arsenic (7060)	**0.0123**		**0.0256**		**0.0175**	
66	59	Chromium (6010)	**0.0176**		**0.0093**		0.001	U
67	60	Copper (6010)	0.01	U	0.01	U	**0.00857**	
68	61	Lead (7421)	**0.00717**		**0.000158**		0.001	U
69	62	Nickel (6010)	0.005	U	0.005	U	**0.00733**	
70	63	Zinc (6010)	**0.0294**		0.01	U	0.005	U
71	64							
72	65	**MAJOR IONS AND CONVENTIONALS**						
73	66	Calcium (mg/L) (6010)	NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**387**		**314**		**229**	
81	74	Chloride (mg/L) (EPA 325.2)	**3.89**		**2.54**		**1.80**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA	
86	79							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW44S		LW44S		LW44S	
4			0411047-07		0502099-11		P5F0441-10	
5			11/8/04		2/23/05		6/9/05	
87	80	**FIELD PARAMETERS**						
88	81	pH (avg)	6.46		6.64		6.40	
89	82	Temperature (° C) (avg)	14.9		13.6		15.7	
90	83	Conductivity (um/hos)	332		208		242	
91	84	Dissolved oxygen (mg/L) (avg)	0.56		0.73		4.17	
92	85							
93	86	**DIOXINS AND FURANS (ng/L)**						
94	87	**Method 8290**						
95	88	2,3,7,8-TCDF	NA		NA		NA	
96	89	Total TCDF	NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA	
98	91	Total TCDD	NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA	
118	111	OCDF	NA		NA		NA	
119	112	OCDD	NA		NA		NA	
120								
121		**ETHANOL (mg/L)**	NA		NA		NA	
122								

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW44S		LW44S		LW44S	
4			0411047-07		0502099-11		P5F0441-10	
5			11/8/04		2/23/05		6/9/05	
123		**PAHs (µg/L)**						
124		**EPA Method SW8270 SIM**						
125		Naphthalene	**0.706**		**1.31**		1.50	U
126		2-Methylnaphthalene	NA		NA		NA	
127		Acenaphthylene	0.0498	U	0.0488	U	1.00	U
128		Acenaphthene	**0.129**		**0.283**		1.00	U
129		Fluorene	**0.179**		**0.361**		1.00	U
130		Anthracene	0.0498	U	0.0488	U	0.100	U
131		Dibenzofuran	NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			N		N		N	
4			0408066-02		0502110-01		P5F0666-05	
5			8/10/04		2/24/05		6/15/05	
6								
7	1	**CHLORINATED PHENOLS (µg/L)**						
8	2	**EPA Method SW8040**						
9	3	Pentachlorophenol	NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA	
16	10							
17	11	**SEMIVOLATILES (µg/L)**						
18	12	**EPA Method SW8270**						
19	13	Phenol	2	U	1.9	U	**14.7**	J
20	14	4-Methylphenol	9.99	U	9.48	U	**5.36**	
21	15	Isophorone	0.999	U	0.948	U	5.00	U
22	16	2,4-Dimethylphenol	**4.48**		2.84	U	**14.4**	
23	17	Benzoic Acid	20	U	19	U	50.0	U
24	18	Naphthalene	**53.7**		**5.5**		**66.8**	
25	19	2-Methylnaphthalene	**37.7**		**16.4**		**25.2**	
26	20	2,4,6-Trichlorophenol	5	U	4.74	U	5.00	U
27	21	2,4,5-Trichlorophenol	5	U	4.74	U	5.00	U
28	22	Acenaphthene	**1.19**		**0.967**		5.00	U
29	23	Dibenzofuran	0.999	U	0.948	U	5.00	U
30	24	Fluorene	**2.55**		1.75	U	5.00	U
31	25	Pentachlorophenol	5	U	4.74	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	**1.23**		0.948	U	10.00	U
33	27							
34	28	**VOLATILES (µg/L)**						
35	29	**EPA Method SW8260**						
36	30	Acetone	50	U	50	U	125	U
37	31	Carbon Disulfide	2	U	2	U	50.0	U
38	32	2-Butanone	10	U	10	U	50.0	U
39	33	Benzene	**424**		**214**		**396**	
40	34	Bromoform	1	U	1	U	5.00	U
41	35	Toluene	**92.3**		**14.3**		**66.2**	
42	36	Ethylbenzene	**744**		**24.6**		**785**	
43	37	Styrene	1	U	1	U	5.00	U
44	38	m,p-Xylene	**904**		**48.5**		**1480**	
45	39	o-Xylene	**446**		**13.9**		**390**	
46	40	1,3,5-Trimethylbenzene	**124**		**12.6**		**65.5**	
47	41	1,2,4-Trimethylbenzene	**518**		**35.6**		**322**	
48	42	Isopropylbenzene	**61.6**		**43.1**		**59.2**	
49	43	n-Propylbenzene	**102**		**54.8**		**89.3**	
50	44	tert-Butylbenzene	1	U	1	U	5.00	U
51	45	sec-Butylbenzene	**4.72**		**3.97**		5.00	U
52	46	4-Isopropyltoluene	**5.33**		**1.43**		10.00	U
53	47	n-Butylbenzene	**5.14**		**7.83**		25.0	U
54	48	Naphthalene	**112**		**12.1**		**79.4**	
55	48.5	Methyl tert-butyl ether	1	U	1	U	5.00	U
56	49							
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**						
58	51	**Method OR-DEQ**						
59	52	**TPH-Diesel**	**7.65**		**1.76**		1.27	U
60	53	**TPH-D Motor Oil**	0.501	U	0.5	U	0.5	U
61	54	**TPH-Gasoline**	**0.012**		**2.44**		**7.99**	
62	55							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			N		N		N	
4			0408066-02		0502110-01		P5F0666-05	
5			8/10/04		2/24/05		6/15/05	
63	56	**PRIORITY POLLUTANT**						
64	57	**METALS (mg/L)**						
65	58	Arsenic (7060)	**0.0373**		**0.0353**		**0.0424**	
66	59	Chromium (6010)	**0.0165**		0.005	U	0.001	U
67	60	Copper (6010)	0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	**0.00733**		**0.00454**		**0.00515**	
69	62	Nickel (6010)	0.005	U	0.005	U	**0.00275**	
70	63	Zinc (6010)	**0.0193**		0.01	U	0.005	U
71	64							
72	65	**MAJOR IONS AND CONVENTIONALS**						
73	66	Calcium (mg/L) (6010)	NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**278**		**362**		**337**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.68**		**2.12**		**2.07**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA	
86	79							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			N		N		N	
4			0408066-02		0502110-01		P5F0666-05	
5			8/10/04		2/24/05		6/15/05	
87	80	**FIELD PARAMETERS**						
88	81	pH (avg)	6.16		6.72		6.11	
89	82	Temperature (° C) (avg)	15.8		12		14.1	
90	83	Conductivity (um/hos)	692		200		487	
91	84	Dissolved oxygen (mg/L) (avg)	3.72		0		3.22	
92	85							
93	86	**DIOXINS AND FURANS (ng/L)**						
94	87	**Method 8290**						
95	88	2,3,7,8-TCDF	NA		NA		NA	
96	89	Total TCDF	NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA	
98	91	Total TCDD	NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA	
118	111	OCDF	NA		NA		NA	
119	112	OCDD	NA		NA		NA	
120								
121		**ETHANOL (mg/L)**	NA		NA		NA	
122								

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			N		N		N	
4			0408066-02		0502110-01		P5F0666-05	
5			8/10/04		2/24/05		6/15/05	
123		**PAHs (µg/L)**						
124		**EPA Method SW8270 SIM**						
125		Naphthalene	**54.5**		**3.78**		**52.3**	
126		2-Methylnaphthalene	NA		NA		NA	
127		Acenaphthylene	**0.253**		**0.133**		2.00	U
128		Acenaphthene	**1.16**		**0.702**		2.00	U
129		Fluorene	**2.49**		**1.65**		**2.50**	
130		Anthracene	**0.121**		0.0474	U	0.100	U
131		Dibenzofuran	NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																								
3			OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S	
4			EM65A		EX87D		FF48G		FL41I		FU45F		FY72G		0402086-07		0406074-01		0408026-02		0502070-01		P5F0668-02	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04		2/16/05		6/14/05	
6																								
7	1	**CHLORINATED PHENOLS (µg/L)**																						
8	2	**EPA Method SW8040**																						
9	3	Pentachlorophenol	NA		**200**		**620**		**67**		**19**	J	**0.69**		**62.1**		NA		NA		NA		**2.99**	
10	4	2,4,6-Trichlorophenol	NA		**1.1**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		**0.56**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		**70**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		**6.9**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16	10																							
17	11	**SEMIVOLATILES (µg/L)**																						
18	12	**EPA Method SW8270**																						
19	13	Phenol	NA		NA		NA		NA		NA		NA		NA		1.97	U	2	U	**2.09**		5.00	U
20	14	4-Methylphenol	NA		NA		NA		NA		NA		NA		NA		9.83	U	10	U	10.2	U	5.00	U
21	15	Isophorone	NA		NA		NA		NA		NA		NA		NA		0.983	U	1	U	1.02	U	5.00	U
22	16	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA		NA		2.95	U	3	U	**5.7**		10.00	U
23	17	Benzoic Acid	NA		NA		NA		NA		NA		NA		NA		19.7	U	20	U	20.4	U	50.0	U
24	18	Naphthalene	NA		NA		NA		NA		NA		NA		NA		**10.4**		**11**		**6.89**		**14.2**	
25	19	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		**5.53**		**6.81**		**2.88**		**8.74**	
26	20	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		4.92	U	5	U	5.09	U	5.00	U
27	21	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		**9.9**		5	U	5.09	U	5.00	U
28	22	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		0.983	U	1	U	1.02	U	5.00	U
29	23	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		0.983	U	1	U	1.02	U	5.00	U
30	24	Fluorene	NA		NA		NA		NA		NA		NA		NA		0.983	U	1	U	1.02	U	5.00	U
31	25	Pentachlorophenol	NA		NA		NA		NA		**19**	J	NA		NA		NA		5	U	5.09	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA		NA		0.983	U	1	U	1.02	U	10.00	U
33	27																							
34	28	**VOLATILES (µg/L)**																						
35	29	**EPA Method SW8260**																						
36	30	Acetone	**19**		**56**		NA		NA		NA		NA		NA		50	U	50	U	50	U	NA	
37	31	Carbon Disulfide	1.0	U	1	U	NA		NA		NA		NA		NA		2	U	2	U	2	U	NA	
38	32	2-Butanone	6.8	U	**5.4**		NA		NA		NA		NA		NA		10	U	10	U	10	U	NA	
39	33	Benzene	**320**		**65**		NA		NA		NA		NA		NA		**112**		**118**	J	**102**		NA	
40	34	Bromoform	1.0	U	1	U	NA		NA		NA		NA		NA		1	U	1	U	1	U	NA	
41	35	Toluene	**29**		**3.9**		NA		NA		NA		NA		NA		**4.66**		**8.87**	J	**2**		NA	
42	36	Ethylbenzene	**180**		**43**		NA		NA		NA		NA		NA		**118**		**163**	J	**129**		NA	
43	37	Styrene	1.0	U	1	U	NA		NA		NA		NA		NA		1	U	1	U	1	U	NA	
44	38	m,p-Xylene	**740**		**110**		NA		NA		NA		NA		NA		**273**		**466**	J	**260**		NA	
45	39	o-Xylene	**280**		**42**		NA		NA		NA		NA		NA		**112**		**161**	J	**83.6**		NA	
46	40	1,3,5-Trimethylbenzene	**160**		**54**		NA		NA		NA		NA		NA		**73.5**		**83**	J	**97.8**		NA	
47	41	1,2,4-Trimethylbenzene	**460**		**160**		NA		NA		NA		NA		NA		**208**		**231**	J	**310**		NA	
48	42	Isopropylbenzene	**140**		**27**		NA		NA		NA		NA		NA		**35.5**		**48.7**	J	**47.1**		NA	
49	43	n-Propylbenzene	1.0	U	**38**		NA		NA		NA		NA		NA		**54.7**		**47.8**	J	**67.3**		NA	
50	44	tert-Butylbenzene	**100**		1	U	NA		NA		NA		NA		NA		**1.95**		**1.63**	J	**4**		NA	
51	45	sec-Butylbenzene	1.0	U	**6.8**		NA		NA		NA		NA		NA		**9.01**		**8.09**	J	**15.1**		NA	
52	46	4-Isopropyltoluene	**29**		**6.9**		NA		NA		NA		NA		NA		**6.85**		**6.84**	J	**13**		NA	
53	47	n-Butylbenzene	28	U	**6.1**	M	NA		NA		NA		NA		NA		**4.85**		**4.21**	J	**11.2**		NA	
54	48	Naphthalene	**83**		**15**		NA		NA		NA		NA		NA		**18.2**		**17.7**	J	**21.3**		NA	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		1	U	1	U	1	U	NA	
56	49																							
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																						
58	51	**Method OR-DEQ**																						
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																								
3			OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S	
4			EM65A		EX87D		FF48G		FL41I		FU45F		FY72G		0402086-07		0406074-01		0408026-02		0502070-01		P5F0668-02	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04		2/16/05		6/14/05	
63	56	**PRIORITY POLLUTANT**																						
64	57	**METALS (mg/L)**																						
65	58	Arsenic (7060)	**0.02**		NA		NA		NA		NA		NA		NA		**0.015**		**0.00838**		**0.0179**		**0.018**	
66	59	Chromium (6010)	0.005	U	NA		NA		NA		NA		NA		NA		**0.0173**		**0.0177**		**0.0077**		0.001	U
67	60	Copper (6010)	0.002	U	NA		NA		NA		NA		NA		NA		0.01	U	0.01	U	0.01	U	**0.00661**	
68	61	Lead (7421)	0.001	U	NA		NA		NA		NA		NA		NA		0.0001	U	**0.000113**		**0.00045**		0.001	U
69	62	Nickel (6010)	0.01	U	NA		NA		NA		NA		NA		NA		**0.0078**		**0.0061**		**0.0104**		**0.047**	
70	63	Zinc (6010)	**0.009**		NA		NA		NA		NA		NA		NA		0.01	U	0.01	U	0.01	U	**0.00504**	
71	64																							
72	65	**MAJOR IONS AND CONVENTIONALS**																						
73	66	Calcium (mg/L) (6010)	**32.4**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**8.55**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**3.4**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**7.45**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**160**		**190**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**160**		**190**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**240**		NA		NA		NA		NA		NA		NA		**301**		**210**		**237**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		**3.07**		**2.52**		**4.25**		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																								
3			OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S	
4			EM65A		EX87D		FF48G		FL41I		FU45F		FY72G		0402086-07		0406074-01		0408026-02		0502070-01		P5F0668-02	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04		2/16/05		6/14/05	
87	80	**FIELD PARAMETERS**																						
88	81	pH (avg)	5.99		6.52		6.53		6.74		6.71		6.57		6.52		6.23		5.83		6.6		6.11	
89	82	Temperature (° C) (avg)	14.3		16.4		15		13		14.9		15.9		14.2		14.2		16		13.4		15.7	
90	83	Conductivity (um/hos)	302		427		369		274		262		317		270		387		351		263		221	
91	84	Dissolved oxygen (mg/L) (avg)	3.97		0.7		0.79		3.39		2.08		1.26		1.14		0.94		2.2		1.22		0	
92	85																							
93	86	**DIOXINS AND FURANS (ng/L)**																						
94	87	**Method 8290**																						
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.000676	U	NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.000676	U	NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.000325	U	NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.000325	U	NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.000393	U	NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.000378	U	NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.005961**		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.000554	U	NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.000554	U	NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.001266	UJ	NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.000917	U	NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.00098	U	NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.001128	U	NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.050538**		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.000267	U	NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.00805**	J	NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.000844	UJ	NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.016634**		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.031277**		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.001392	UJ	NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.159035**		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.232233**		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.35569**		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.133707**		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		**1.32**		NA	
120																								
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																								

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																								
3			OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S	
4			EM65A		EX87D		FF48G		FL41I		FU45F		FY72G		0402086-07		0406074-01		0408026-02		0502070-01		P5F0668-02	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04		2/16/05		6/14/05	
123		**PAHs (µg/L)**																						
124		**EPA Method SW8270 SIM**																						
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		1	U	NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		1	U	NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																					Dup of OX2S			
3			OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		Y		OX2S	
4			EM65B		EX87B		FF48H		FL58G		FU45E		0402086-09		0406074-02		0408026-03		0411066-10		0411066-02		P5F0668-04	
5			6/24/02		10/29/02		2/10/03		5/8/03		8/28/03		2/18/04		6/10/04		8/04/04		11/11/04		11/11/04		6/14/05	
6																								
7	1	**CHLORINATED PHENOLS (µg/L)**																						
8	2	**EPA Method SW8040**																						
9	3	Pentachlorophenol	NA		**1200**		**5400**		**6700**		**5800**	J	**5320**		NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		0.26	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		**0.28**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		0.94	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		0.26	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		**110**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		**6.5**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16	10																							
17	11	**SEMIVOLATILES (µg/L)**																						
18	12	**EPA Method SW8270**																						
19	13	Phenol	NA		NA		NA		NA		NA		NA		2.05	U	2	U	1.99	U	2	U	5.00	U
20	14	4-Methylphenol	NA		NA		NA		NA		NA		NA		10.2	U	10	U	9.94	U	10	U	5.00	U
21	15	Isophorone	NA		NA		NA		NA		NA		NA		1.02	U	1	U	0.994	U	1	U	5.00	U
22	16	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA		3.07	U	3	U	2.98	U	3	U	10.00	U
23	17	Benzoic Acid	NA		NA		NA		NA		NA		NA		20.5	U	20	U	19.9	U	20	U	50.0	U
24	18	Naphthalene	NA		NA		NA		NA		NA		NA		**13.5**		**9.21**		**10.4**	J	**22.2**	J	**14.9**	
25	19	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		**6.53**		**6.24**		**8.69**	J	**23.9**	J	**8.21**	
26	20	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		5.12	U	5	U	4.97	U	5	U	5.00	U
27	21	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		5.12	U	5	U	4.97	U	5	U	5.00	U
28	22	Acenaphthene	NA		NA		NA		NA		NA		NA		1.02	U	1	U	0.994	U	1	U	5.00	U
29	23	Dibenzofuran	NA		NA		NA		NA		NA		NA		1.02	U	1	U	0.994	U	1	U	5.00	U
30	24	Fluorene	NA		NA		NA		NA		NA		NA		1.02	U	1	U	0.994	U	1	U	5.00	U
31	25	Pentachlorophenol	NA		NA		NA		NA		NA		NA		**5030**		**1500**		**727**	J	**1150**	J	**1540**	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA		1.02	U	1	U	0.994	U	1	U	10.00	U
33	27																							
34	28	**VOLATILES (µg/L)**																						
35	29	**EPA Method SW8260**																						
36	30	Acetone	**16**		**22**	M	NA		NA		NA		NA		50	U	**108**	J	50	U	50	U	NA	
37	31	Carbon Disulfide	3.0	U	1	U	NA		NA		NA		NA		2	U	**3.32**	J	2	U	2	U	NA	
38	32	2-Butanone	15	U	5	U	NA		NA		NA		NA		10	U	**11.3**	J	10	U	10	U	NA	
39	33	Benzene	3.0	U	**1.1**		NA		NA		NA		NA		**6.51**		**5.3**	J	**3.49**		**3.67**		NA	
40	34	Bromoform	3.0	U	1	U	NA		NA		NA		NA		1	U	1	U	1	U	1	U	NA	
41	35	Toluene	**6.7**		1	U	NA		NA		NA		NA		**1.19**		**1.38**	J	1	U	1	U	NA	
42	36	Ethylbenzene	**43**		**24**		NA		NA		NA		NA		**91.3**		**74.7**	J	**48.9**		**50**		NA	
43	37	Styrene	3.0	U	1	U	NA		NA		NA		NA		1	U	1	U	1	U	1	U	NA	
44	38	m,p-Xylene	**72**		**29**		NA		NA		NA		NA		**105**		**89.7**	J	**62.7**		**61.5**		NA	
45	39	o-Xylene	**79**		**36**		NA		NA		NA		NA		**190**		**137**	J	**99.2**		**110**		NA	
46	40	1,3,5-Trimethylbenzene	**46**		**21**		NA		NA		NA		NA		**83.1**		**72.3**	J	**78.8**		**70.1**		NA	
47	41	1,2,4-Trimethylbenzene	**190**		**110**		NA		NA		NA		NA		**307**		**233**	J	**320**	J	**212**	J	NA	
48	42	Isopropylbenzene	**18**		**14**		NA		NA		NA		NA		**48.5**		**39.4**	J	**32.8**		**29.9**		NA	
49	43	n-Propylbenzene	**28**		**25**		NA		NA		NA		NA		**62.8**		**40.7**	J	**46**		**39.4**		NA	
50	44	tert-Butylbenzene	3.0	U	**1.8**		NA		NA		NA		NA		**2.91**		**2.14**	J	**2.74**		**2.22**		NA	
51	45	sec-Butylbenzene	3.0	U	**8.4**		NA		NA		NA		NA		**22.9**		**13.6**	J	**16**		**13.4**		NA	
52	46	4-Isopropyltoluene	**5.2**		**6.3**		NA		NA		NA		NA		**10.1**		**9.35**	J	**14.6**	J	**11.1**	J	NA	
53	47	n-Butylbenzene	5.8	U	**6.7**	M	NA		NA		NA		NA		**6.92**		**6.37**	J	**11.2**	J	**8.71**	J	NA	
54	48	Naphthalene	15	U	**11**		NA		NA		NA		NA		**22.6**		**21.6**	J	**23.3**		**25.2**		NA	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		1	U	1	U	1	U	1	U	NA	
56	49																							
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																						
58	51	**Method OR-DEQ**																						
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																					Dup of OX2S			
3			OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		Y		OX2S	
4			EM65B		EX87B		FF48H		FL58G		FU45E		0402086-09		0406074-02		0408026-03		0411066-10		0411066-02		P5F0668-04	
5			6/24/02		10/29/02		2/10/03		5/8/03		8/28/03		2/18/04		6/10/04		8/04/04		11/11/04		11/11/04		6/14/05	
63	56	**PRIORITY POLLUTANT**																						
64	57	**METALS (mg/L)**																						
65	58	Arsenic (7060)	**0.01**		NA		NA		NA		NA		NA		**0.004**		**0.00752**		**0.00915**		**0.00768**		**0.00755**	
66	59	Chromium (6010)	0.005	U	NA		NA		NA		NA		NA		**0.0134**		0.005	U	**0.0191**		**0.0141**		0.001	U
67	60	Copper (6010)	0.002	U	NA		NA		NA		NA		NA		0.01	U	0.01	U	0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	0.001	U	NA		NA		NA		NA		NA		0.0001	U	**0.000258**		**0.0401**	J	**0.0214**	J	0.001	U
69	62	Nickel (6010)	0.01	U	NA		NA		NA		NA		NA		0.005	U	0.005	U	0.005	U	0.005	U	**0.234**	
70	63	Zinc (6010)	**0.009**		NA		NA		NA		NA		NA		0.01	U	0.01	U	**0.0299**		**0.0247**		**0.0201**	
71	64																							
72	65	**MAJOR IONS AND CONVENTIONALS**																						
73	66	Calcium (mg/L) (6010)	**33**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**10.7**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**2.7**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**6.06**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**120**		**200**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**120**		**200**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**220**		NA		NA		NA		NA		NA		**389**		**358**		**443**		**428**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		**3.58**		**2.81**		**4.69**		**4.56**		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																							

BZTO104(e)021920

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																					Dup of OX2S			
3			OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		Y		OX2S	
4			EM65B		EX87B		FF48H		FL58G		FU45E		0402086-09		0406074-02		0408026-03		0411066-10		0411066-02		P5F0668-04	
5			6/24/02		10/29/02		2/10/03		5/8/03		8/28/03		2/18/04		6/10/04		8/04/04		11/11/04		11/11/04		6/14/05	
87	80	**FIELD PARAMETERS**																						
88	81	pH (avg)	6.15		6.40		6.7		6.49		6.66		6.57		6.25		5.96		6.62		6.61		6.03	
89	82	Temperature (° C) (avg)	15.5		15.9		14.2		13.6		14.9		13.6		14.8		15.6		15.2		15.1		15.1	
90	83	Conductivity (um/hos)	249		599		222		267		263		313		434		624		487		487		303	
91	84	Dissolved oxygen (mg/L) (avg)	4.10		0		1.49		2.21		1.43		1.48		1.07		1.82		1.34		1.34		0	
92	85																							
93	86	**DIOXINS AND FURANS (ng/L)**																						
94	87	**Method 8290**																						
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		0.00099	U	0.001855	U	**0.011663**	J	NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		**0.008498**		0.001855	U	**0.028916**		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		0.001186	U	0.002202	U	0.000465	UJ	NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		0.001186	U	0.002202	U	0.000465	U	NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		**0.005426**	J	0.001628	U	**0.028919**	J	NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		**0.003945**	J	0.001557	U	**0.022008**	J	NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		**0.093578**		**0.021311**		**0.589224**		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		0.001145	U	0.002569	U	**0.003825**	J	NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		0.001145	U	0.002569	U	**0.006169**		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		**0.027685**		**0.006922**	J	**0.129685**		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		**0.012362**	J	**0.003692**	J	**0.060882**		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		**0.01246**	J	**0.004637**	J	**0.086431**		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		0.001979	U	0.001753	U	0.003279	U	NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		**0.873515**		**0.232308**		**3.438667**		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		**0.00466**	J	0.00237	U	0.000658	U	NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		**0.115964**		**0.030842**		**0.672776**		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		**0.011181**	J	0.002173	U	0.055833	U	NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		**0.294442**		**0.062692**		**1.508675**		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		**0.705588**		**0.189857**		**3.607867**		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		**0.035143**		**0.013672**	J	**0.180702**		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		**3.428142**		**0.913668**		**17.465984**		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		**4.502444**		**1.222349**		**16.086098**	J	NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		**7.076281**		**1.891967**		**35.962568**		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		**3.277332**		**0.901706**		**18.415892**	J	NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		**33.577997**	J	**9.445627**		**172.764658**	J	NA		NA	
120																								
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																								

BZTO104(e)021921

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																					Dup of OX2S			
3			OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		Y		OX2S	
4			EM65B		EX87B		FF48H		FL58G		FU45E		0402086-09		0406074-02		0408026-03		0411066-10		0411066-02		P5F0668-04	
5			6/24/02		10/29/02		2/10/03		5/8/03		8/28/03		2/18/04		6/10/04		8/04/04		11/11/04		11/11/04		6/14/05	
123		**PAHs (µg/L)**																						
124		**EPA Method SW8270 SIM**																						
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		1	U	NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		1	U	NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																								
3			OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		O03S	
4			EM65C		EX87E		FF48F		FL41J		FU45G		FY72H		0402086-08		0406074-03		0408026-04		0502070-02		P5F0668-03	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04		2/16/05		6/14/05	
6																								
7	1	**CHLORINATED PHENOLS (µg/L)**																						
8	2	**EPA Method SW8040**																						
9	3	Pentachlorophenol	NA		**1200**	J	**5700**		**2600**		NA		NA		NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		**2.4**	J	NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		**1.3**	J	NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		9.2	UJ	NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		0.25	UJ	NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		**320**	J	NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		**29**	J	NA		NA		NA		NA		NA		NA		NA		NA		NA	
16	10																							
17	11	**SEMIVOLATILES (µg/L)**																						
18	12	**EPA Method SW8270**																						
19	13	Phenol	NA		NA		NA		NA		NA		NA		NA		1.95	U	**15.7**		1.94	U	11.0	U
20	14	4-Methylphenol	NA		NA		NA		NA		NA		NA		NA		9.77	U	**22.2**		9.68	U	5.00	U
21	15	Isophorone	NA		NA		NA		NA		NA		NA		NA		0.977	U	1	U	0.968	U	5.00	U
22	16	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA		NA		2.93	U	**13.9**		**6.2**		10.00	U
23	17	Benzoic Acid	NA		NA		NA		NA		NA		NA		NA		19.5	U	20	U	19.4	U	50.0	U
24	18	Naphthalene	NA		NA		NA		NA		NA		NA		NA		**29.9**		**20.2**		**23.8**		**16**	
25	19	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		**13.5**		**9.63**		**7.17**		**10.2**	
26	20	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		4.88	U	5	U	4.84	U	5.00	U
27	21	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		4.88	U	5	U	4.84	U	5.00	U
28	22	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		0.977	U	1	U	0.968	U	5.00	U
29	23	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		0.977	U	1	U	0.968	U	5.00	U
30	24	Fluorene	NA		NA		NA		NA		NA		NA		NA		0.977	U	1	U	0.968	U	5.00	U
31	25	Pentachlorophenol	NA		NA		NA		NA		**1400**	J	**130**		**344**		**728**		**59.2**		**28.7**		**77.9**	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA		NA		0.977	U	1	U	0.968	U	10.00	U
33	27																							
34	28	**VOLATILES (µg/L)**																						
35	29	**EPA Method SW8260**																						
36	30	Acetone	120	U	**240**		NA		NA		NA		NA		NA		50	U	**78.2**		50	U	NA	
37	31	Carbon Disulfide	25	U	1	U	NA		NA		NA		NA		NA		2	U	**3.34**		2	U	NA	
38	32	2-Butanone	120	U	**20**		NA		NA		NA		NA		NA		10	U	**27**		10	U	NA	
39	33	Benzene	**66**		**94**		NA		NA		NA		NA		NA		**130**		**156**		**111**		NA	
40	34	Bromoform	25	U	1	U	NA		NA		NA		NA		NA		1	U	1	U	1	U	NA	
41	35	Toluene	**63**		**31**		NA		NA		NA		NA		NA		**7.84**		**21.6**		**3.44**		NA	
42	36	Ethylbenzene	**280**		**110**		NA		NA		NA		NA		NA		**206**		**250**		**161**		NA	
43	37	Styrene	25	U	1	U	NA		NA		NA		NA		NA		1	U	1	U	1	U	NA	
44	38	m,p-Xylene	**820**		**430**		NA		NA		NA		NA		NA		**477**		**605**		**278**		NA	
45	39	o-Xylene	**370**		**150**		NA		NA		NA		NA		NA		**225**		**295**		**152**		NA	
46	40	1,3,5-Trimethylbenzene	**160**		**120**		NA		NA		NA		NA		NA		**92.3**		**113**		**139**		NA	
47	41	1,2,4-Trimethylbenzene	**520**		**350**		NA		NA		NA		NA		NA		**331**		**360**		**354**		NA	
48	42	Isopropylbenzene	**57**		**56**		NA		NA		NA		NA		NA		**70.1**		**79.1**		**69.9**		NA	
49	43	n-Propylbenzene	**83**		**75**		NA		NA		NA		NA		NA		**103**		**78.4**		**99.7**		NA	
50	44	tert-Butylbenzene	25	U	1	U	NA		NA		NA		NA		NA		**2.81**		**2.34**		1	U	NA	
51	45	sec-Butylbenzene	25	U	**13**		NA		NA		NA		NA		NA		**15**		**13**		**17**		NA	
52	46	4-Isopropyltoluene	25	U	**13**		NA		NA		NA		NA		NA		**12.1**		**12.5**		**14.8**		NA	
53	47	n-Butylbenzene	25	U	**11**	M	NA		NA		NA		NA		NA		**8.37**		**8.92**		**13**		NA	
54	48	Naphthalene	120	U	**37**		NA		NA		NA		NA		NA		**48.7**		**50.4**		**39.4**		NA	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		1	U	1	U	1	U	NA	
56	49																							
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																						
58	51	**Method OR-DEQ**																						
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																								
3			OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		O03S	
4			EM65C		EX87E		FF48F		FL41J		FU45G		FY72H		0402086-08		0406074-03		0408026-04		0502070-02		P5F0668-03	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04		2/16/05		6/14/05	
63	56	**PRIORITY POLLUTANT**																						
64	57	**METALS (mg/L)**																						
65	58	Arsenic (7060)	**0.02**		NA		NA		NA		NA		NA		NA		**0.021**		**0.0148**		**0.0126**		**0.0144**	
66	59	Chromium (6010)	0.005	U	NA		NA		NA		NA		NA		NA		**0.0119**		**0.0159**		**0.0051**		0.001	U
67	60	Copper (6010)	**0.002**		NA		NA		NA		NA		NA		NA		0.01	U	0.01	U	0.01	U	**0.00352**	
68	61	Lead (7421)	0.001	U	NA		NA		NA		NA		NA		NA		0.0001	U	**0.000426**		**0.00022**		0.001	U
69	62	Nickel (6010)	0.01	U	NA		NA		NA		NA		NA		NA		0.005	U	**0.0435**		**0.0915**		**0.18**	
70	63	Zinc (6010)	**0.012**		NA		NA		NA		NA		NA		NA		0.01	U	**0.019**		**0.0181**		**0.0154**	
71	64																							
72	65	**MAJOR IONS AND CONVENTIONALS**																						
73	66	Calcium (mg/L) (6010)	**40.2**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**11**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**3.8**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**8.75**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**160**		**270**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**160**		**270**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**270**		NA		NA		NA		NA		NA		NA		**369**		**461**		**226**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		**4.44**		**3.73**		**4.67**		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																								
3			OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		O03S	
4			EM65C		EX87E		FF48F		FL41J		FU45G		FY72H		0402086-08		0406074-03		0408026-04		0502070-02		P5F0668-03	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04		2/16/05		6/14/05	
87	80	**FIELD PARAMETERS**																						
88	81	pH (avg)	5.94		6.44		6.59		6.73		6.7		6.65		6.54		6.16		5.85		6.45		5.99	
89	82	Temperature (° C) (avg)	14.4		15.3		15.1		13.5		15.2		16.2		14.1		15		18		13.9		15.3	
90	83	Conductivity (um/hos)	342		502		381		340		287		318		386		447		592		237		257	
91	84	Dissolved oxygen (mg/L) (avg)	4.34		0		1.24		2.93		2.07		2.14		1.76		0.74		1.4		0		0	
92	85																							
93	86	**DIOXINS AND FURANS (ng/L)**																						
94	87	**Method 8290**																						
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																								
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																								

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2																								
3			OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		O03S	
4			EM65C		EX87E		FF48F		FL41J		FU45G		FY72H		0402086-08		0406074-03		0408026-04		0502070-02		P5F0668-03	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04		2/16/05		6/14/05	
123		**PAHs (µg/L)**																						
124		**EPA Method SW8270 SIM**																						
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		1	U	NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		1	U	NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

BZTO104(e)021926

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2																				
3			OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S	
4			EM65D		EX87F		FF48I		FL41K		FU45J		0402086-11		0406074-04		0408026-05		P5F0553-02	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		2/18/04		6/10/04		8/04/04		6/13/05	
6																				
7	1	**CHLORINATED PHENOLS (µg/L)**																		
8	2	**EPA Method SW8040**																		
9	3	Pentachlorophenol	NA		**1200**	J	**880**		**8300**		**2200**	J	**1410**		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		**2.7**	J	NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		**0.81**	J	NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		11	UJ	NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		0.25	UJ	NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		**320**	J	NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		**32**	J	NA		NA		NA		NA		NA		NA		NA	
16	10																			
17	11	**SEMIVOLATILES (µg/L)**																		
18	12	**EPA Method SW8270**																		
19	13	Phenol	NA		NA		NA		NA		NA		NA		1.99	U	2	U	5.00	U
20	14	4-Methylphenol	NA		NA		NA		NA		NA		NA		9.93	U	10	U	5.00	U
21	15	Isophorone	NA		NA		NA		NA		NA		NA		0.993	U	1	U	5.00	U
22	16	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA		2.98	U	**7.25**		10.00	U
23	17	Benzoic Acid	NA		NA		NA		NA		NA		NA		19.9	U	20	U	50.0	U
24	18	Naphthalene	NA		NA		NA		NA		NA		NA		**43.7**		**28.5**		**38.5**	
25	19	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		**42.9**		**20.7**		**26.7**	
26	20	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		4.97	U	5	U	5.00	U
27	21	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		**7.59**		5	U	5.00	U
28	22	Acenaphthene	NA		NA		NA		NA		NA		NA		0.993	U	1	U	5.00	U
29	23	Dibenzofuran	NA		NA		NA		NA		NA		NA		0.993	U	1	U	5.00	U
30	24	Fluorene	NA		NA		NA		NA		NA		NA		0.993	U	1	U	5.00	U
31	25	Pentachlorophenol	NA		NA		NA		NA		NA		NA		**634**		**96.7**		**13.1**	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA		**1.42**		1	U	10.00	U
33	27																			
34	28	**VOLATILES (µg/L)**																		
35	29	**EPA Method SW8260**																		
36	30	Acetone	120	U	**12**	M	NA		NA		NA		NA		50	U	**157**		NA	
37	31	Carbon Disulfide	25	U	**1.3**		NA		NA		NA		NA		2	U	2	U	NA	
38	32	2-Butanone	120	U	5	U	NA		NA		NA		NA		10	U	**18.8**		NA	
39	33	Benzene	25	U	**24**		NA		NA		NA		NA		**109**		**77**		NA	
40	34	Bromoform	25	U	1	U	NA		NA		NA		NA		1	U	1	U	NA	
41	35	Toluene	**71**		**23**		NA		NA		NA		NA		**2.77**		**6.91**		NA	
42	36	Ethylbenzene	**440**		**330**		NA		NA		NA		NA		**292**		**303**		NA	
43	37	Styrene	25	U	1	U	NA		NA		NA		NA		1	U	1	U	NA	
44	38	m,p-Xylene	**1300**		**820**		NA		NA		NA		NA		**236**		**324**		NA	
45	39	o-Xylene	**500**		**430**		NA		NA		NA		NA		**318**		**336**		NA	
46	40	1,3,5-Trimethylbenzene	**220**		**200**		NA		NA		NA		NA		**158**		**141**		NA	
47	41	1,2,4-Trimethylbenzene	**590**		**580**		NA		NA		NA		NA		**524**		**532**		NA	
48	42	Isopropylbenzene	**86**		**120**		NA		NA		NA		NA		**108**		**88.2**		NA	
49	43	n-Propylbenzene	**110**		**120**		NA		NA		NA		NA		**125**		**114**		NA	
50	44	tert-Butylbenzene	25	U	1	U	NA		NA		NA		NA		**3.95**		**2.82**		NA	
51	45	sec-Butylbenzene	25	U	**22**		NA		NA		NA		NA		**24.6**		**14.6**		NA	
52	46	4-Isopropyltoluene	25	U	**24**		NA		NA		NA		NA		**22.3**		**15.4**		NA	
53	47	n-Butylbenzene	25	U	**25**	M	NA		NA		NA		NA		**17.7**		**10.8**		NA	
54	48	Naphthalene	120	U	**99**		NA		NA		NA		NA		**64.9**		**66**		NA	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		1	U	1	U	NA	
56	49																			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																		
58	51	**Method OR-DEQ**																		
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2																				
3			OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S	
4			EM65D		EX87F		FF48I		FL41K		FU45J		0402086-11		0406074-04		0408026-05		P5F0553-02	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		2/18/04		6/10/04		8/04/04		6/13/05	
63	56	**PRIORITY POLLUTANT**																		
64	57	**METALS (mg/L)**																		
65	58	Arsenic (7060)	**0.021**		NA		NA		NA		NA		NA		**0.015**		**0.0137**		**0.0132**	
66	59	Chromium (6010)	0.005	U	NA		NA		NA		NA		NA		**0.034**		0.005	U	0.001	U
67	60	Copper (6010)	0.002	U	NA		NA		NA		NA		NA		**0.0256**		0.01	U	**0.00504**	
68	61	Lead (7421)	0.001	U	NA		NA		NA		NA		NA		**0.0084**		**0.00107**		0.001	U
69	62	Nickel (6010)	0.01	U	NA		NA		NA		NA		NA		**0.0219**		**0.0099**		**0.0483**	
70	63	Zinc (6010)	**0.008**		NA		NA		NA		NA		NA		**0.0674**		**0.0114**		**0.00939**	
71	64																			
72	65	**MAJOR IONS AND CONVENTIONALS**																		
73	66	Calcium (mg/L) (6010)	**37.9**		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**10.4**		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**3.6**		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**8.42**		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**160**		**240**		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1	U	NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**160**		**240**		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**250**		NA		NA		NA		NA		NA		**271**		**456**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		**4.11**		**3.42**		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2																				
3			OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S	
4			EM65D		EX87F		FF48I		FL41K		FU45J		0402086-11		0406074-04		0408026-05		P5F0553-02	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		2/18/04		6/10/04		8/04/04		6/13/05	
87	80	**FIELD PARAMETERS**																		
88	81	pH (avg)	6.74		NM		6.39		6.09		6.41		6.27		6.19		6.07		6.44	
89	82	Temperature (° C) (avg)	14.5		NM		14.7		14		18		13.8		14.9		16.6		15.6	
90	83	Conductivity (um/hos)	326		NM		336		142		262		242		384		813		365	
91	84	Dissolved oxygen (mg/L) (avg)	4.42		NM		2.19		2.47		2.16		2.22		1.1		3.44		2.24	
92	85																			
93	86	**DIOXINS AND FURANS (ng/L)**																		
94	87	**Method 8290**																		
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																				
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2																				
3			OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S	
4			EM65D		EX87F		FF48I		FL41K		FU45J		0402086-11		0406074-04		0408026-05		P5F0553-02	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		2/18/04		6/10/04		8/04/04		6/13/05	
123		**PAHs (µg/L)**																		
124		**EPA Method SW8270 SIM**																		
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		1	U	NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		1	U	NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			OX5S		OX5S		OX5S		OX5S		OX5S		OX5S		OX5S	
4			FY72A		0402086-01		0406074-05		0408026-06		0411066-03		0502070-03		P5F0342-01	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04		2/16/05		6/7/05	
6																
7	1	**CHLORINATED PHENOLS (µg/L)**														
8	2	**EPA Method SW8040**														
9	3	Pentachlorophenol	0.5	U	0.482	U	NA		NA		NA		NA		0.495	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
16	10															
17	11	**SEMIVOLATILES (µg/L)**														
18	12	**EPA Method SW8270**														
19	13	Phenol	NA		NA		1.95	U	2	U	2.02	U	1.97	U	5.00	U
20	14	4-Methylphenol	NA		NA		9.73	U	10	U	10.1	U	9.87	U	5.00	U
21	15	Isophorone	NA		NA		0.973	U	1	U	1.01	U	0.987	U	5.00	U
22	16	2,4-Dimethylphenol	NA		NA		2.92	U	3	U	3.03	U	2.96	U	10.00	U
23	17	Benzoic Acid	NA		NA		19.5	U	20	U	20.2	U	19.7	U	50.0	U
24	18	Naphthalene	NA		NA		0.973	U	1	U	1.01	U	0.987	U	5.00	U
25	19	2-Methylnaphthalene	NA		NA		0.973	U	1	U	1.01	U	0.987	U	5.00	U
26	20	2,4,6-Trichlorophenol	NA		NA		4.86	U	5	U	5.05	U	4.94	U	5.00	U
27	21	2,4,5-Trichlorophenol	NA		NA		4.86	U	5	U	5.05	U	4.94	U	5.00	U
28	22	Acenaphthene	NA		NA		0.973	U	1	U	1.01	U	0.987	U	5.00	U
29	23	Dibenzofuran	NA		NA		0.973	U	1	U	1.01	U	0.987	U	5.00	U
30	24	Fluorene	NA		NA		0.973	U	1	U	1.01	U	0.987	U	5.00	U
31	25	Pentachlorophenol	NA		NA		4.86	U	5	U	5.05	U	4.94	U	10.00	U
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		0.973	U	1	U	1.01	U	0.987	U	10.00	U
33	27															
34	28	**VOLATILES (µg/L)**														
35	29	**EPA Method SW8260**														
36	30	Acetone	NA		NA		50	U	50	U	50	U	50	U	NA	
37	31	Carbon Disulfide	NA		NA		2	U	2	U	2	U	2	U	NA	
38	32	2-Butanone	NA		NA		10	U	10	U	10	U	10	U	NA	
39	33	Benzene	NA		NA		0.3	U	0.3	U	0.3	U	**0.46**		NA	
40	34	Bromoform	NA		NA		1	U	1	U	1	U	1	U	NA	
41	35	Toluene	NA		NA		1	U	1	U	1	U	1	U	NA	
42	36	Ethylbenzene	NA		NA		1	U	1	U	1	U	1	U	NA	
43	37	Styrene	NA		NA		1	U	1	U	1	U	1	U	NA	
44	38	m,p-Xylene	NA		NA		2	U	2	U	2	U	2	U	NA	
45	39	o-Xylene	NA		NA		1	U	1	U	1	U	1	U	NA	
46	40	1,3,5-Trimethylbenzene	NA		NA		1	U	1	U	1	U	1	U	NA	
47	41	1,2,4-Trimethylbenzene	NA		NA		1	U	1	U	1	U	1	U	NA	
48	42	Isopropylbenzene	NA		NA		1	U	1	U	1	U	1	U	NA	
49	43	n-Propylbenzene	NA		NA		1	U	1	U	1	U	1	U	NA	
50	44	tert-Butylbenzene	NA		NA		1	U	1	U	1	U	1	U	NA	
51	45	sec-Butylbenzene	NA		NA		1	U	1	U	1	U	1	U	NA	
52	46	4-Isopropyltoluene	NA		NA		1	U	1	U	1	U	1	U	NA	
53	47	n-Butylbenzene	NA		NA		1	U	1	U	1	U	1	U	NA	
54	48	Naphthalene	NA		NA		1	U	1	U	1	U	**3.06**		NA	
55	48.5	Methyl tert-butyl ether	NA		NA		1	U	1	U	1	U	1	U	NA	
56	49															
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**														
58	51	**Method OR-DEQ**														
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA	
62	55															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			OX5S		OX5S		OX5S		OX5S		OX5S		OX5S		OX5S	
4			FY72A		0402086-01		0406074-05		0408026-06		0411066-03		0502070-03		P5F0342-01	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04		2/16/05		6/7/05	
63	56	**PRIORITY POLLUTANT**														
64	57	**METALS (mg/L)**														
65	58	Arsenic (7060)	NA		NA		**0.010**		**0.014**		**0.0135**		**0.0145**		**0.0142**	
66	59	Chromium (6010)	NA		NA		**0.0126**		**0.0155**		0.005	U	**0.0088**		0.001	U
67	60	Copper (6010)	NA		NA		0.01	U	0.01	U	0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	NA		NA		0.0001	U	0.0001	U	0.00048	U	**0.000561**		0.001	U
69	62	Nickel (6010)	NA		NA		0.005	U	0.005	U	0.005	U	0.005	U	**0.00291**	
70	63	Zinc (6010)	NA		NA		0.01	U	0.01	U	0.01	U	0.01	U	0.005	U
71	64															
72	65	**MAJOR IONS AND CONVENTIONALS**														
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		**255**		**276**		**211**		**171**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		**3.44**		**3.19**		**2.3**		**2.19**		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA	
86	79															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			OX5S		OX5S		OX5S		OX5S		OX5S		OX5S		OX5S	
4			FY72A		0402086-01		0406074-05		0408026-06		0411066-03		0502070-03		P5F0342-01	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04		2/16/05		6/7/05	
87	80	**FIELD PARAMETERS**														
88	81	pH (avg)	6.59		6.63		6.27		5.96		6.41		6.8		6.68	
89	82	Temperature (° C) (avg)	16.5		12.9		12.3		15.6		15.5		13.7		14.2	
90	83	Conductivity (um/hos)	288		234		346		510		248		148		202	
91	84	Dissolved oxygen (mg/L) (avg)	1.18		3.16		1.76		2.63		2.05		0.67		4.29	
92	85															
93	86	**DIOXINS AND FURANS (ng/L)**														
94	87	**Method 8290**														
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA	
120																
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA	
122																

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			OX5S		OX5S		OX5S		OX5S		OX5S		OX5S		OX5S	
4			FY72A		0402086-01		0406074-05		0408026-06		0411066-03		0502070-03		P5F0342-01	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04		2/16/05		6/7/05	
123		**PAHs (µg/L)**														
124		**EPA Method SW8270 SIM**														
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		1	U	NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		1	U	NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2											Dup of OX6S							
3			OX6S		OX6S		OX6S		OX6S		Y		OX6S		OX6S		OX6S	
4			FY72B		0402086-02		0406074-06		0408026-07		0408026-01		0411066-04		0502070-04		P5F0342-02	
5			10/22/03		2/18/04		6/10/04		8/04/04		8/04/04		11/11/04		2/16/05		6/7/05	
6																		
7	1	**CHLORINATED PHENOLS (µg/L)**																
8	2	**EPA Method SW8040**																
9	3	Pentachlorophenol	**2100**		**527**		NA		NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
16	10																	
17	11	**SEMIVOLATILES (µg/L)**																
18	12	**EPA Method SW8270**																
19	13	Phenol	NA		NA		2	U	2	U	2	U	1.97	U	1.9	U	5.00	U
20	14	4-Methylphenol	NA		NA		10	U	10	U	10	U	9.84	U	9.51	U	5.00	U
21	15	Isophorone	NA		NA		1	U	1	U	1	U	0.984	U	0.951	U	5.00	U
22	16	2,4-Dimethylphenol	NA		NA		3	U	3	U	3	U	2.95	U	2.85	U	10.00	U
23	17	Benzoic Acid	NA		NA		20	U	20	U	20	U	19.7	U	19	U	50.0	U
24	18	Naphthalene	NA		NA		1	U	1	U	1	U	0.984	U	0.951	U	5.00	U
25	19	2-Methylnaphthalene	NA		NA		1	U	1	U	1	U	0.984	U	0.951	U	5.00	U
26	20	2,4,6-Trichlorophenol	NA		NA		5.01	U	5	U	5	U	4.92	U	4.75	U	5.00	U
27	21	2,4,5-Trichlorophenol	NA		NA		5.01	U	5	U	5	U	4.92	U	4.75	U	5.00	U
28	22	Acenaphthene	NA		NA		1	U	1	U	1	U	0.984	U	0.951	U	5.00	U
29	23	Dibenzofuran	NA		NA		1	U	1	U	1	U	0.984	U	0.951	U	5.00	U
30	24	Fluorene	NA		NA		1	U	1	U	1	U	0.984	U	0.951	U	5.00	U
31	25	Pentachlorophenol	NA		NA		NA		**604**		**498**		**624**		**127**		**600**	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		1	U	1	U	1	U	0.984	U	0.951	U	10.00	U
33	27																	
34	28	**VOLATILES (µg/L)**																
35	29	**EPA Method SW8260**																
36	30	Acetone	NA		NA		50	U	50	U	50	U	50	U	50	U	NA	
37	31	Carbon Disulfide	NA		NA		2	U	2	U	2	U	2	U	2	U	NA	
38	32	2-Butanone	NA		NA		10	U	10	U	10	U	10	U	10	U	NA	
39	33	Benzene	NA		NA		0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	NA	
40	34	Bromoform	NA		NA		1	U	1	U	1	U	1	U	1	U	NA	
41	35	Toluene	NA		NA		1	U	1	U	1	U	1	U	1	U	NA	
42	36	Ethylbenzene	NA		NA		**1.31**		1	U	**1.19**	J	1	U	1	U	NA	
43	37	Styrene	NA		NA		1	U	1	U	1	U	1	U	1	U	NA	
44	38	m,p-Xylene	NA		NA		2	U	2	U	2	U	2	U	2	U	NA	
45	39	o-Xylene	NA		NA		**5.49**		**3.11**	J	**3.36**	J	1	U	**4.09**		NA	
46	40	1,3,5-Trimethylbenzene	NA		NA		**17.7**		**10.9**	J	**11.9**	J	1	U	1	U	NA	
47	41	1,2,4-Trimethylbenzene	NA		NA		**83.7**		**77.6**	J	**75.9**	J	1	U	**11.6**		NA	
48	42	Isopropylbenzene	NA		NA		**4.94**		**2.23**	J	**2.43**	J	**1.8**		**2.51**		NA	
49	43	n-Propylbenzene	NA		NA		**9.71**		**4.69**	J	**5.33**	J	1	U	**2.81**		NA	
50	44	tert-Butylbenzene	NA		NA		1	U	1	U	1	U	1	U	1	U	NA	
51	45	sec-Butylbenzene	NA		NA		**6.54**		**8.04**	J	**7.9**	J	**1.5**		**4.7**		NA	
52	46	4-Isopropyltoluene	NA		NA		**2.71**		**3.4**	J	**3.74**	J	1	U	1	U	NA	
53	47	n-Butylbenzene	NA		NA		**2.06**		**2.1**	J	**2.31**	J	1	U	**3.89**		NA	
54	48	Naphthalene	NA		NA		**5.3**		**3.92**	J	**4.48**	J	1	U	**2.71**		NA	
55	48.5	Methyl tert-butyl ether	NA		NA		1	U	1	U	1	U	1	U	1	U	NA	
56	49																	
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																
58	51	**Method OR-DEQ**																
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA	
62	55																	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2											Dup of OX6S							
3			OX6S		OX6S		OX6S		OX6S		Y		OX6S		OX6S		OX6S	
4			FY72B		0402086-02		0406074-06		0408026-07		0408026-01		0411066-04		0502070-04		P5F0342-02	
5			10/22/03		2/18/04		6/10/04		8/04/04		8/04/04		11/11/04		2/16/05		6/7/05	
63	56	**PRIORITY POLLUTANT**																
64	57	**METALS (mg/L)**																
65	58	Arsenic (7060)	NA		NA		**0.013**		**0.013**		**0.0127**		**0.0133**		**0.0531**		**0.00548**	
66	59	Chromium (6010)	NA		NA		**0.0147**		**0.0127**		**0.0142**		0.005	U	**0.0068**		0.001	U
67	60	Copper (6010)	NA		NA		0.01	U	0.01	U	0.01	U	0.01	U	**0.0444**		**0.00716**	
68	61	Lead (7421)	NA		NA		0.0001	U	0.0001	U	0.0001	U	**0.00194**		**0.00287**		0.001	U
69	62	Nickel (6010)	NA		NA		0.005	U	0.005	U	0.005	U	**0.25**		**0.113**		**0.117**	
70	63	Zinc (6010)	NA		NA		0.01	U	0.01	U	0.01	U	**0.0833**		**0.0964**		**0.020**	
71	64																	
72	65	**MAJOR IONS AND CONVENTIONALS**																
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		**284**		**284**		**277**		**160**		**313**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		**3.13**		**3.13**		**3.07**		**3.75**		**2.95**		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA	
86	79																	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2											Dup of OX6S							
3			OX6S		OX6S		OX6S		OX6S		Y		OX6S		OX6S		OX6S	
4			FY72B		0402086-02		0406074-06		0408026-07		0408026-01		0411066-04		0502070-04		P5F0342-02	
5			10/22/03		2/18/04		6/10/04		8/04/04		8/04/04		11/11/04		2/16/05		6/7/05	
87	80	**FIELD PARAMETERS**																
88	81	pH (avg)	6.67		6.63		6.38		5.93		5.91		6.55		6.43		6.22	
89	82	Temperature (° C) (avg)	16.3		14.4		14.6		15.8		16.2		16.2		NM		13.8	
90	83	Conductivity (um/hos)	352		353		374		517		517		479		NM		575	
91	84	Dissolved oxygen (mg/L) (avg)	2.63		1.23		1.38		2.6		2.28		0.55		NM		2.42	
92	85																	
93	86	**DIOXINS AND FURANS (ng/L)**																
94	87	**Method 8290**																
95	88	2,3,7,8-TCDF	NA		NA		0.001007	U	0.001308	U	NA		0.001679	UJ	0.000503	U	0.0098	U
96	89	Total TCDF	NA		NA		0.001007	U	0.001308	U	NA		0.001679	U	0.000503	U	0.0098	U
97	90	2,3,7,8-TCDD	NA		NA		0.001143	U	0.001655	U	NA		0.000421	UJ	0.000247	U	0.0098	U
98	91	Total TCDD	NA		NA		0.001143	U	0.001655	U	NA		0.000421	U	0.000247	U	0.0098	U
99	92	1,2,3,7,8-PeCDF	NA		NA		0.000721	U	0.001565	U	NA		0.000886	UJ	0.001959	UJ	0.049	U
100	93	2,3,4,7,8-PeCDF	NA		NA		0.000702	U	0.001496	U	NA		0.001359	UJ	0.001528	UJ	0.049	U
101	94	Total PeCDF	NA		NA		**0.00675**		0.001496	U	NA		**0.016804**		**0.042411**		0.049	U
102	95	1,2,3,7,8-PeCDD	NA		NA		0.001091	U	0.002223	U	NA		0.001631	U	0.000308	U	0.049	U
103	96	Total PeCDD	NA		NA		0.001091	U	0.002223	U	NA		0.001631	U	0.000308	U	0.049	U
104	97	1,2,3,4,7,8-HxCDF	NA		NA		**0.002389**	J	**0.005124**	J	NA		0.002207	UJ	**0.006875**	J	0.049	U
105	98	1,2,3,6,7,8-HxCDF	NA		NA		0.000732	U	0.001659	U	NA		0.001128	U	0.004071	U	0.049	U
106	99	2,3,4,6,7,8-HxCDF	NA		NA		0.000802	U	0.001727	U	NA		0.001206	U	0.004352	U	0.049	U
107	100	1,2,3,7,8,9-HxCDF	NA		NA		0.000894	U	0.002002	U	NA		0.001389	U	0.005011	U	0.049	U
108	101	Total HxCDF	NA		NA		**0.037855**		**0.117654**		NA		**0.064214**		**0.311203**		0.049	U
109	102	1,2,3,4,7,8-HxCDD	NA		NA		0.001267	U	0.002125	U	NA		0.000608	U	0.000383	U	0.049	U
110	103	1,2,3,6,7,8-HxCDD	NA		NA		**0.006653**	J	**0.014629**	J	NA		**0.013944**	J	**0.053899**		0.049	U
111	104	1,2,3,7,8,9-HxCDD	NA		NA		0.001076	U	0.001949	U	NA		0.000578	U	0.003976	UJ	0.049	U
112	105	Total HxCDD	NA		NA		**0.017614**		**0.037485**		NA		**0.029549**		**0.125227**		0.049	U
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		**0.023098**		**0.059996**		NA		**0.045009**		**0.228015**		0.049	U
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		0.001711	U	**0.007017**	J	NA		0.001752	U	**0.008529**	J	0.049	U
115	108	Total HpCDF	NA		NA		**0.125689**		**0.325386**		NA		**0.23456**		**1.17**		**0.12**	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		**0.160343**		**0.381169**		NA		**0.292709**		**1.55**		**0.16**	
117	110	Total HpCDD	NA		NA		**0.251496**		**0.588687**		NA		**0.450367**		**2.40**		**0.25**	
118	111	OCDF	NA		NA		**0.087928**		**0.244329**		NA		**0.201198**		**1.50**		**0.12**	
119	112	OCDD	NA		NA		**0.761183**		**1.997929**		NA		**1.588077**		**11.76**		**1.00**	
120																		
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA	
122																		

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2											Dup of OX6S							
3			OX6S		OX6S		OX6S		OX6S		Y		OX6S		OX6S		OX6S	
4			FY72B		0402086-02		0406074-06		0408026-07		0408026-01		0411066-04		0502070-04		P5F0342-02	
5			10/22/03		2/18/04		6/10/04		8/04/04		8/04/04		11/11/04		2/16/05		6/7/05	
123		**PAHs (µg/L)**																
124		**EPA Method SW8270 SIM**																
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		1	U	1	U	NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		1	U	1	U	NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			OX7S		OX7S		OX7S		OX7S		OX7S		OX7S		OX7S	
4			FY72C		0402086-03		0406074-07		0408026-08		0411066-05		0502070-05		P5F0342-03	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04		2/16/05		6/7/05	
6																
7	1	**CHLORINATED PHENOLS (µg/L)**														
8	2	**EPA Method SW8040**														
9	3	Pentachlorophenol	**720**		**166**		NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
16	10															
17	11	**SEMIVOLATILES (µg/L)**														
18	12	**EPA Method SW8270**														
19	13	Phenol	NA		NA		1.98	U	2	U	2.01	U	1.95	U	5.00	U
20	14	4-Methylphenol	NA		NA		9.92	U	10	U	10	U	9.76	U	5.00	U
21	15	Isophorone	NA		NA		0.992	U	1	U	1	U	0.976	U	5.00	U
22	16	2,4-Dimethylphenol	NA		NA		2.98	U	3	U	3.01	U	2.93	U	10.00	U
23	17	Benzoic Acid	NA		NA		19.8	U	20	U	20.1	U	19.5	U	50.0	U
24	18	Naphthalene	NA		NA		**1.86**		**1.5**		1	U	0.976	U	5.00	U
25	19	2-Methylnaphthalene	NA		NA		0.992	U	1	U	1	U	0.976	U	5.00	U
26	20	2,4,6-Trichlorophenol	NA		NA		4.96	U	5	U	5.02	U	4.88	U	5.00	U
27	21	2,4,5-Trichlorophenol	NA		NA		4.96	U	5	U	5.02	U	4.88	U	5.00	U
28	22	Acenaphthene	NA		NA		0.992	U	1	U	1	U	0.976	U	5.00	U
29	23	Dibenzofuran	NA		NA		0.992	U	1	U	1	U	0.976	U	5.00	U
30	24	Fluorene	NA		NA		0.992	U	1	U	1	U	0.976	U	5.00	U
31	25	Pentachlorophenol	NA		NA		**634**		**130**		**84.7**		**30.8**		**41.6**	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		0.992	U	1	U	1	U	0.976	U	10.00	U
33	27															
34	28	**VOLATILES (µg/L)**														
35	29	**EPA Method SW8260**														
36	30	Acetone	NA		NA		50	U	50	U	50	U	50	U	NA	
37	31	Carbon Disulfide	NA		NA		2	U	2	U	2	U	2	U	NA	
38	32	2-Butanone	NA		NA		10	U	10	U	10	U	10	U	NA	
39	33	Benzene	NA		NA		0.3	U	0.3	U	0.3	U	0.3	U	NA	
40	34	Bromoform	NA		NA		1	U	1	U	1	U	1	U	NA	
41	35	Toluene	NA		NA		1	U	1	U	1	U	1	U	NA	
42	36	Ethylbenzene	NA		NA		1	U	**1.18**	J	1	U	1	U	NA	
43	37	Styrene	NA		NA		1	U	1	U	1	U	1	U	NA	
44	38	m,p-Xylene	NA		NA		2	U	2	U	2	U	2	U	NA	
45	39	o-Xylene	NA		NA		**2.79**		**3.76**	J	1	U	**1.3**		NA	
46	40	1,3,5-Trimethylbenzene	NA		NA		**3.24**		**7.29**	J	1	U	1	U	NA	
47	41	1,2,4-Trimethylbenzene	NA		NA		**27.3**		**54.2**	J	**13.2**		**2.68**		NA	
48	42	Isopropylbenzene	NA		NA		**1.23**		**1.62**	J	**1.4**		1	U	NA	
49	43	n-Propylbenzene	NA		NA		**1.85**		**3.26**	J	1	U	1	U	NA	
50	44	tert-Butylbenzene	NA		NA		1	U	1	U	1	U	1	U	NA	
51	45	sec-Butylbenzene	NA		NA		**1.4**		**3.37**	J	1	U	**2.77**		NA	
52	46	4-Isopropyltoluene	NA		NA		1	U	**1.42**	J	1	U	1	U	NA	
53	47	n-Butylbenzene	NA		NA		1	U	**1.25**	J	1	U	1	U	NA	
54	48	Naphthalene	NA		NA		**4.59**		**4.89**	J	1	U	1	U	NA	
55	48.5	Methyl tert-butyl ether	NA		NA		1	U	1	U	1	U	1	U	NA	
56	49															
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**														
58	51	**Method OR-DEQ**														
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA	
62	55															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			OX7S		OX7S		OX7S		OX7S		OX7S		OX7S		OX7S	
4			FY72C		0402086-03		0406074-07		0408026-08		0411066-05		0502070-05		P5F0342-03	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04		2/16/05		6/7/05	
63	56	**PRIORITY POLLUTANT**														
64	57	**METALS (mg/L)**														
65	58	Arsenic (7060)	NA		NA		**0.011**		**0.014**		**0.0178**		**0.02**		**0.00602**	
66	59	Chromium (6010)	NA		NA		**0.0162**		**0.0139**		0.005	U	**0.0085**		0.001	U
67	60	Copper (6010)	NA		NA		0.01	U	0.01	U	0.01	U	**0.0121**		**0.00671**	
68	61	Lead (7421)	NA		NA		0.0001	U	0.0001	U	**0.001**		**0.00184**		0.001	U
69	62	Nickel (6010)	NA		NA		0.005	U	0.005	U	**0.169**		**0.0689**		**0.0674**	
70	63	Zinc (6010)	NA		NA		0.01	U	0.01	U	**0.0295**		**0.0304**		**0.0167**	
71	64															
72	65	**MAJOR IONS AND CONVENTIONALS**														
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		**315**		**241**		**355**		**290**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		**2.88**		**2.91**		**3.76**		**2.11**		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA	
86	79															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			OX7S		OX7S		OX7S		OX7S		OX7S		OX7S		OX7S	
4			FY72C		0402086-03		0406074-07		0408026-08		0411066-05		0502070-05		P5F0342-03	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04		2/16/05		6/7/05	
87	80	**FIELD PARAMETERS**														
88	81	pH (avg)	6.60		6.57		6.3		5.88		6.6		6.44		6.02	
89	82	Temperature (° C) (avg)	16.1		13.8		14.2		15.7		16		14.9		14.0	
90	83	Conductivity (um/hos)	326		393		370		489		416		238		500	
91	84	Dissolved oxygen (mg/L) (avg)	1.76		2.2		3.02		3.6		0.72		1.06		3.93	
92	85															
93	86	**DIOXINS AND FURANS (ng/L)**														
94	87	**Method 8290**														
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA	
120																
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA	
122																

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			OX7S		OX7S		OX7S		OX7S		OX7S		OX7S		OX7S	
4			FY72C		0402086-03		0406074-07		0408026-08		0411066-05		0502070-05		P5F0342-03	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04		2/16/05		6/7/05	
123		**PAHs (µg/L)**														
124		**EPA Method SW8270 SIM**														
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		1	U	NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		1	U	NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1					Dup of OX8S													
2			OX8S		Y		OX8S		OX8S		OX8S		OX8S		OX8S		OX8S	
3			FY72E		FY72D		0402086-04		0406074-08		0408026-09		0411066-06		0502070-06		P5F0342-08	
4			10/22/03		10/22/03		2/18/04		6/10/04		8/04/04		11/11/04		2/16/05		6/7/05	
5																		
6	1	**CHLORINATED PHENOLS (µg/L)**																
7	2	**EPA Method SW8040**																
8	3	Pentachlorophenol	**260**		**300**		**56.4**		NA		NA		NA		NA		NA	
9	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
10	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
11	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
12	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
13	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
14	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA	
15	10																	
16	11	**SEMIVOLATILES (µg/L)**																
17	12	**EPA Method SW8270**																
18	13	Phenol	NA		NA		NA		1.97	U	2	U	1.93	U	1.96	U	5.00	U
19	14	4-Methylphenol	NA		NA		NA		9.84	U	10	U	9.64	U	9.81	U	5.00	U
20	15	Isophorone	NA		NA		NA		0.984	U	1	U	0.964	U	0.981	U	5.00	U
21	16	2,4-Dimethylphenol	NA		NA		NA		2.95	U	3	U	2.89	U	2.94	U	10.00	U
22	17	Benzoic Acid	NA		NA		NA		19.7	U	20	U	19.3	U	19.6	U	50.0	U
23	18	Naphthalene	NA		NA		NA		**3.38**		**1.09**		0.964	U	0.981	U	5.00	U
24	19	2-Methylnaphthalene	NA		NA		NA		0.984	U	1	U	0.964	U	0.981	U	5.00	U
25	20	2,4,6-Trichlorophenol	NA		NA		NA		4.92	U	5	U	4.82	U	4.91	U	5.00	U
26	21	2,4,5-Trichlorophenol	NA		NA		NA		4.92	U	5	U	4.82	U	4.91	U	5.00	U
27	22	Acenaphthene	NA		NA		NA		0.984	U	1	U	0.964	U	0.981	U	5.00	U
28	23	Dibenzofuran	NA		NA		NA		0.984	U	1	U	0.964	U	0.981	U	5.00	U
29	24	Fluorene	NA		NA		NA		0.984	U	1	U	0.964	U	0.981	U	5.00	U
30	25	Pentachlorophenol	NA		NA		NA		**206**		**76.8**		**55**		**95.9**		**59.6**	
31	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		0.984	U	1	U	0.964	U	0.981	U	10.00	U
32	27																	
33	28	**VOLATILES (µg/L)**																
34	29	**EPA Method SW8260**																
35	30	Acetone	NA		NA		NA		50	U	50	U	50	U	50	U	NA	
36	31	Carbon Disulfide	NA		NA		NA		2	U	2	U	2	U	2	U	NA	
37	32	2-Butanone	NA		NA		NA		10	U	10	U	10	U	10	U	NA	
38	33	Benzene	NA		NA		NA		0.3	U	0.3	U	0.3	U	0.3	U	NA	
39	34	Bromoform	NA		NA		NA		1	U	1	U	1	U	1	U	NA	
40	35	Toluene	NA		NA		NA		1	U	1	U	1	U	1	U	NA	
41	36	Ethylbenzene	NA		NA		NA		**3.06**		**4.15**	J	**6**		**4.38**		NA	
42	37	Styrene	NA		NA		NA		1	U	1	U	1	U	1	U	NA	
43	38	m,p-Xylene	NA		NA		NA		2	U	**2.84**	J	**2.19**		2	U	NA	
44	39	o-Xylene	NA		NA		NA		**12.4**		**18.8**	J	**20.1**		**6.23**		NA	
45	40	1,3,5-Trimethylbenzene	NA		NA		NA		**32**		**33.6**	J	**8.28**		**2.28**		NA	
46	41	1,2,4-Trimethylbenzene	NA		NA		NA		**109**		**101**	J	**107**		**55.2**		NA	
47	42	Isopropylbenzene	NA		NA		NA		**10.6**		**12.4**	J	**11.8**		**10.7**		NA	
48	43	n-Propylbenzene	NA		NA		NA		**19.6**		**15.3**	J	**14.8**		**23.3**		NA	
49	44	tert-Butylbenzene	NA		NA		NA		**2.14**		**2.12**	J	**1.53**		**3.34**		NA	
50	45	sec-Butylbenzene	NA		NA		NA		**20.1**		**19.2**	J	**10.1**		**14.2**		NA	
51	46	4-Isopropyltoluene	NA		NA		NA		**4.03**		**4.85**	J	**1.55**		**3.44**		NA	
52	47	n-Butylbenzene	NA		NA		NA		**3.89**		**4.94**	J	**2.13**		**6.17**		NA	
53	48	Naphthalene	NA		NA		NA		**6.04**		**6.53**	J	1	U	**2.52**		NA	
54	48.5	Methyl tert-butyl ether	NA		NA		NA		1	U	1	U	1	U	1	U	NA	
55	49																	
56	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																
57	51	**Method OR-DEQ**																
58	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA	
59	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA	
60	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA	
61	55																	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2					Dup of OX8S													
3			OX8S		Y		OX8S		OX8S		OX8S		OX8S		OX8S		OX8S	
4			FY72E		FY72D		0402086-04		0406074-08		0408026-09		0411066-06		0502070-06		P5F0342-08	
5			10/22/03		10/22/03		2/18/04		6/10/04		8/04/04		11/11/04		2/16/05		6/7/05	
63	56	**PRIORITY POLLUTANT**																
64	57	**METALS (mg/L)**																
65	58	Arsenic (7060)	NA		NA		NA		**0.012**		**0.0233**		**0.0259**		**0.0182**		**0.0219**	
66	59	Chromium (6010)	NA		NA		NA		**0.0143**		**0.0123**		**0.0136**		0.005	U	**0.00127**	
67	60	Copper (6010)	NA		NA		NA		0.01	U	0.01	U	0.01	U	0.01	U	**0.00782**	
68	61	Lead (7421)	NA		NA		NA		0.0001	U	0.0001	U	**0.00104**		**0.000603**		0.001	U
69	62	Nickel (6010)	NA		NA		NA		0.005	U	0.005	U	**0.0818**		**0.17**		**0.249**	
70	63	Zinc (6010)	NA		NA		NA		0.01	U	0.01	U	**0.0139**		**0.0495**		**0.016**	
71	64																	
72	65	**MAJOR IONS AND CONVENTIONALS**																
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA		**379**		**315**		**365**		**876**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		**4.22**		**4.12**		**3.76**		**3.51**		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA	
86	79																	

BZTO104(e)021944

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2					Dup of OX8S													
3			OX8S		Y		OX8S		OX8S		OX8S		OX8S		OX8S		OX8S	
4			FY72E		FY72D		0402086-04		0406074-08		0408026-09		0411066-06		0502070-06		P5F0342-08	
5			10/22/03		10/22/03		2/18/04		6/10/04		8/04/04		11/11/04		2/16/05		6/7/05	
87	80	**FIELD PARAMETERS**																
88	81	pH (avg)	6.65		6.65		6.65		6.33		5.94		6.59		6.49		6.31	
89	82	Temperature (° C) (avg)	16.3		16.3		12.8		13.9		16.1		16.3		14.4		14.5	
90	83	Conductivity (um/hos)	337		337		451		437		566		465		329		896	
91	84	Dissolved oxygen (mg/L) (avg)	2.26		2.3		1.58		1.21		2.67		0.61		0.08		2.44	
92	85																	
93	86	**DIOXINS AND FURANS (ng/L)**																
94	87	**Method 8290**																
95	88	2,3,7,8-TCDF	3.8	U	NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	3.8	U	NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	3.5	U	NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	3.5	U	NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	2.8	U	NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	2.6	U	NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	2.6	U	NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	3.2	U	NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	3.2	U	NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	2.3	U	NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	2.1	U	NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	2.3	U	NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	2.5	U	NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	**9.2**		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	2.9	U	NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	2.2	U	NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	2.5	U	NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	2.2	U	NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	**7.5**	J	NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	3.8	U	NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	**34**		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	**36**		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	**57**		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	**35**	J	NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	**230**		NA		NA		NA		NA		NA		NA		NA	
120																		
121		**ETHANOL (mg/L)**							NA		NA		NA		NA		NA	
122																		

BZTO104(e)021945

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2					Dup of OX8S													
3			OX8S		Y		OX8S		OX8S		OX8S		OX8S		OX8S		OX8S	
4			FY72E		FY72D		0402086-04		0406074-08		0408026-09		0411066-06		0502070-06		P5F0342-08	
5			10/22/03		10/22/03		2/18/04		6/10/04		8/04/04		11/11/04		2/16/05		6/7/05	
123		**PAHs (µg/L)**																
124		**EPA Method SW8270 SIM**																
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		1	U	NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		1	U	NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			OX9S		OX9S		OX9S	
4			0408035-02		0502070-07		P5F0553-01	
5			8/05/04		2/16/05		6/13/05	
6								
7	1	**CHLORINATED PHENOLS (µg/L)**						
8	2	**EPA Method SW8040**						
9	3	Pentachlorophenol	NA		4.94	U	0.526	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA	
16	10							
17	11	**SEMIVOLATILES (µg/L)**						
18	12	**EPA Method SW8270**						
19	13	Phenol	2	U	1.98	U	5.00	U
20	14	4-Methylphenol	10	U	9.88	U	5.00	U
21	15	Isophorone	1	U	0.988	U	5.00	U
22	16	2,4-Dimethylphenol	3	U	2.96	U	10.00	U
23	17	Benzoic Acid	20	U	19.8	U	50.0	U
24	18	Naphthalene	1	U	0.988	U	5.00	U
25	19	2-Methylnaphthalene	1	U	0.988	U	5.00	U
26	20	2,4,6-Trichlorophenol	5	U	4.94	U	5.00	U
27	21	2,4,5-Trichlorophenol	5	U	4.94	U	5.00	U
28	22	Acenaphthene	1	U	0.988	U	5.00	U
29	23	Dibenzofuran	1	U	0.988	U	5.00	U
30	24	Fluorene	1	U	0.988	U	5.00	U
31	25	Pentachlorophenol	5	U	NA		10.0	U
32	26	bis(2-Ethylhexyl)phthalate	1	U	0.988	U	10.00	U
33	27							
34	28	**VOLATILES (µg/L)**						
35	29	**EPA Method SW8260**						
36	30	Acetone	50	U	50	U	NA	
37	31	Carbon Disulfide	2	U	2	U	NA	
38	32	2-Butanone	10	U	10	U	NA	
39	33	Benzene	0.3	U	0.3	U	NA	
40	34	Bromoform	1	U	1	U	NA	
41	35	Toluene	1	U	1	U	NA	
42	36	Ethylbenzene	1	U	1	U	NA	
43	37	Styrene	1	U	1	U	NA	
44	38	m,p-Xylene	2	U	2	U	NA	
45	39	o-Xylene	1	U	1	U	NA	
46	40	1,3,5-Trimethylbenzene	1	U	1	U	NA	
47	41	1,2,4-Trimethylbenzene	1	U	1	U	NA	
48	42	Isopropylbenzene	1	U	1	U	NA	
49	43	n-Propylbenzene	1	U	1	U	NA	
50	44	tert-Butylbenzene	1	U	1	U	NA	
51	45	sec-Butylbenzene	1	U	1	U	NA	
52	46	4-Isopropyltoluene	1	U	1	U	NA	
53	47	n-Butylbenzene	1	U	1	U	NA	
54	48	Naphthalene	1	U	1	U	NA	
55	48.5	Methyl tert-butyl ether	1	U	1	U	NA	
56	49							
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**						
58	51	**Method OR-DEQ**						
59	52	**TPH-Diesel**	NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA	
62	55							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			OX9S		OX9S		OX9S	
4			0408035-02		0502070-07		P5F0553-01	
5			8/05/04		2/16/05		6/13/05	
63	56	**PRIORITY POLLUTANT**						
64	57	**METALS (mg/L)**						
65	58	Arsenic (7060)	**0.0044**		**0.00253**		**0.0011**	
66	59	Chromium (6010)	**0.0156**		0.005	U	0.001	U
67	60	Copper (6010)	0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	0.0001	U	0.0001	U	0.001	U
69	62	Nickel (6010)	0.005	U	**0.0706**		**0.00928**	
70	63	Zinc (6010)	0.01	U	0.01	U	0.005	U
71	64							
72	65	**MAJOR IONS AND CONVENTIONALS**						
73	66	Calcium (mg/L) (6010)	NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**201**		**276**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	**3.56**		**4.55**		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA	
86	79							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			OX9S		OX9S		OX9S	
4			0408035-02		0502070-07		P5F0553-01	
5			8/05/04		2/16/05		6/13/05	
87	80	**FIELD PARAMETERS**						
88	81	pH (avg)	5.83		6.56		5.53	
89	82	Temperature (° C) (avg)	15.5		13.6		15.0	
90	83	Conductivity (um/hos)	365		227		287	
91	84	Dissolved oxygen (mg/L) (avg)	2.33		0.79		2.80	
92	85							
93	86	**DIOXINS AND FURANS (ng/L)**						
94	87	**Method 8290**						
95	88	2,3,7,8-TCDF	NA		NA		NA	
96	89	Total TCDF	NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA	
98	91	Total TCDD	NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA	
118	111	OCDF	NA		NA		NA	
119	112	OCDD	NA		NA		NA	
120								
121		**ETHANOL (mg/L)**	NA		NA		NA	
122								

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			OX9S		OX9S		OX9S	
4			0408035-02		0502070-07		P5F0553-01	
5			8/05/04		2/16/05		6/13/05	
123		**PAHs (µg/L)**						
124		**EPA Method SW8270 SIM**						
125		Naphthalene	NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA	
127		Acenaphthylene	1	U	NA		NA	
128		Acenaphthene	NA		NA		NA	
129		Fluorene	NA		NA		NA	
130		Anthracene	1	U	NA		NA	
131		Dibenzofuran	NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			P		P	
4			0502110-02		P5F0666-06	
5			2/24/05		6/15/05	
6						
7	1	**CHLORINATED PHENOLS (µg/L)**				
8	2	**EPA Method SW8040**				
9	3	Pentachlorophenol	4.92	U	NA	
10	4	2,4,6-Trichlorophenol	NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA	
16	10					
17	11	**SEMIVOLATILES (µg/L)**				
18	12	**EPA Method SW8270**				
19	13	Phenol	**18.9**		**135**	J
20	14	4-Methylphenol	**81.8**		**445**	
21	15	Isophorone	0.983	U	25.0	U
22	16	2,4-Dimethylphenol	2.95	U	50.0	U
23	17	Benzoic Acid	19.7	U	250	U
24	18	Naphthalene	0.983	U	25.0	U
25	19	2-Methylnaphthalene	0.983	U	25.0	U
26	20	2,4,6-Trichlorophenol	4.92	U	25.0	U
27	21	2,4,5-Trichlorophenol	4.92	U	25.0	U
28	22	Acenaphthene	0.983	U	25.0	U
29	23	Dibenzofuran	0.983	U	25.0	U
30	24	Fluorene	**2.19**		25.0	U
31	25	Pentachlorophenol	NA		50	U
32	26	bis(2-Ethylhexyl)phthalate	0.983	U	50.0	U
33	27					
34	28	**VOLATILES (µg/L)**				
35	29	**EPA Method SW8260**				
36	30	Acetone	50	U	500	U
37	31	Carbon Disulfide	2	U	200	U
38	32	2-Butanone	10	U	200	U
39	33	Benzene	**1480**		**2020**	
40	34	Bromoform	1	U	20.0	U
41	35	Toluene	**4.78**		20.0	U
42	36	Ethylbenzene	**4.29**		20.0	U
43	37	Styrene	1	U	20.0	U
44	38	m,p-Xylene	**12.1**		**60.6**	
45	39	o-Xylene	**22**		**58.6**	
46	40	1,3,5-Trimethylbenzene	**62.3**		**68.0**	
47	41	1,2,4-Trimethylbenzene	**39**		**46.8**	
48	42	Isopropylbenzene	**7.45**		40.0	U
49	43	n-Propylbenzene	**10.9**		20.0	U
50	44	tert-Butylbenzene	1	U	20.0	U
51	45	sec-Butylbenzene	**1.52**		20.0	U
52	46	4-Isopropyltoluene	**3.13**		40.0	U
53	47	n-Butylbenzene	**5.32**		100	U
54	48	Naphthalene	**6.91**		40.0	U
55		Methyl tert-butyl ether	1	U	20.0	U
56	49					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**				
58	51	**Method OR-DEQ**				
59	52	**TPH-Diesel**	**16.2**		**5.41**	
60	53	**TPH-D Motor Oil**	0.499	U	0.5	U
61	54	**TPH-Gasoline**	**3.5**		**7.98**	
62	55					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			P		P	
4			0502110-02		P5F0666-06	
5			2/24/05		6/15/05	
63	56	**PRIORITY POLLUTANT**				
64	57	**METALS (mg/L)**				
65	58	Arsenic (7060)	**0.0378**		**0.0328**	
66	59	Chromium (6010)	0.005	U	0.001	U
67	60	Copper (6010)	0.01	U	**0.0123**	
68	61	Lead (7421)	**0.0728**		**0.109**	
69	62	Nickel (6010)	0.005	U	**0.0109**	
70	63	Zinc (6010)	**0.0133**		0.005	U
71	64					
72	65	**MAJOR IONS AND CONVENTIONALS**				
73	66	Calcium (mg/L) (6010)	NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**170**		**524**	
81	74	Chloride (mg/L) (EPA 325.2)	**0.8**		**1.94**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA	
86	79					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			P		P	
4			0502110-02		P5F0666-06	
5			2/24/05		6/15/05	
87	80	**FIELD PARAMETERS**				
88	81	pH (avg)	6.61		6.29	
89	82	Temperature (° C) (avg)	13		14.4	
90	83	Conductivity (um/hos)	233		309	
91	84	Dissolved oxygen (mg/L) (avg)	0		NA	
92	85					
93	86	**DIOXINS AND FURANS (ng/L)**				
94	87	**Method 8290**				
95	88	2,3,7,8-TCDF	NA		NA	
96	89	Total TCDF	NA		NA	
97	90	2,3,7,8-TCDD	NA		NA	
98	91	Total TCDD	NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA	
101	94	Total PeCDF	NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA	
103	96	Total PeCDD	NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA	
108	101	Total HxCDF	NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA	
112	105	Total HxCDD	NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA	
115	108	Total HpCDF	NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA	
117	110	Total HpCDD	NA		NA	
118	111	OCDF	NA		NA	
119	112	OCDD	NA		NA	
120						
121			NA		NA	
122						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			P		P	
4			0502110-02		P5F0666-06	
5			2/24/05		6/15/05	
123		**PAHs (µg/L)**				
124		**EPA Method SW8270 SIM**				
125		Naphthalene	**1.15**		3.5	U
126		2-Methylnaphthalene	NA		NA	
127		Acenaphthylene	**0.0688**		1.00	U
128		Acenaphthene	**1.74**		**2.94**	
129		Fluorene	**1.45**		**3.46**	
130		Anthracene	**0.118**		0.500	U
131		Dibenzofuran	NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			PZ1		PZ1	
4			EM65E		FF48K	
5			6/24/02		2/10/03	
6						
7	1	**CHLORINATED PHENOLS (µg/L)**				
8	2	**EPA Method SW8040**				
9	3	Pentachlorophenol	NA		**700**	
10	4	2,4,6-Trichlorophenol	NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA	
16	10					
17	11	**SEMIVOLATILES (µg/L)**				
18	12	**EPA Method SW8270**				
19	13	Phenol	NA		NA	
20	14	4-Methylphenol	NA		NA	
21	15	Isophorone	NA		NA	
22	16	2,4-Dimethylphenol	NA		NA	
23	17	Benzoic Acid	NA		NA	
24	18	Naphthalene	NA		NA	
25	19	2-Methylnaphthalene	NA		NA	
26	20	2,4,6-Trichlorophenol	NA		NA	
27	21	2,4,5-Trichlorophenol	NA		NA	
28	22	Acenaphthene	NA		NA	
29	23	Dibenzofuran	NA		NA	
30	24	Fluorene	NA		NA	
31	25	Pentachlorophenol	NA		NA	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA	
33	27					
34	28	**VOLATILES (µg/L)**				
35	29	**EPA Method SW8260**				
36	30	Acetone	250	U	NA	
37	31	Carbon Disulfide	50	U	NA	
38	32	2-Butanone	250	U	NA	
39	33	Benzene	50	U	NA	
40	34	Bromoform	50	U	NA	
41	35	Toluene	**80**		NA	
42	36	Ethylbenzene	**470**		NA	
43	37	Styrene	50	U	NA	
44	38	m,p-Xylene	**1000**		NA	
45	39	o-Xylene	**710**		NA	
46	40	1,3,5-Trimethylbenzene	**290**		NA	
47	41	1,2,4-Trimethylbenzene	**870**		NA	
48	42	Isopropylbenzene	**120**		NA	
49	43	n-Propylbenzene	**170**		NA	
50	44	tert-Butylbenzene	50	U	NA	
51	45	sec-Butylbenzene	50	U	NA	
52	46	4-Isopropyltoluene	50	U	NA	
53	47	n-Butylbenzene	50	U	NA	
54	48	Naphthalene	250	U	NA	
55	48.5	Methyl tert-butyl ether	NA		NA	
56	49					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**				
58	51	**Method OR-DEQ**				
59	52	**TPH-Diesel**	NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA	
61	54	**TPH-Gasoline**	NA		NA	
62	55					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			PZ1		PZ1	
4			EM65E		FF48K	
5			6/24/02		2/10/03	
63	56	**PRIORITY POLLUTANT**				
64	57	**METALS (mg/L)**				
65	58	Arsenic (7060)	**0.005**		NA	
66	59	Chromium (6010)	**0.035**		NA	
67	60	Copper (6010)	**0.011**		NA	
68	61	Lead (7421)	**0.001**		NA	
69	62	Nickel (6010)	**0.04**		NA	
70	63	Zinc (6010)	**0.087**		NA	
71	64					
72	65	**MAJOR IONS AND CONVENTIONALS**				
73	66	Calcium (mg/L) (6010)	**42.3**		NA	
74	67	Magnesium (mg/L) (6010)	**13.6**		NA	
75	68	Potassium (mg/L) (6010)	**3.3**		NA	
76	69	Sodium (mg/L) (6010)	**5.25**		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**180**		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**180**		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**250**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA	
86	79					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			PZ1		PZ1	
4			EM65E		FF48K	
5			6/24/02		2/10/03	
87	80	**FIELD PARAMETERS**				
88	81	pH (avg)	6.02		6.61	
89	82	Temperature (° C) (avg)	15.3		14.9	
90	83	Conductivity (um/hos)	278		376	
91	84	Dissolved oxygen (mg/L) (avg)	5.09		1.01	
92	85					
93	86	**DIOXINS AND FURANS (ng/L)**				
94	87	**Method 8290**				
95	88	2,3,7,8-TCDF	NA		NA	
96	89	Total TCDF	NA		NA	
97	90	2,3,7,8-TCDD	NA		NA	
98	91	Total TCDD	NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA	
101	94	Total PeCDF	NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA	
103	96	Total PeCDD	NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA	
108	101	Total HxCDF	NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA	
112	105	Total HxCDD	NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA	
115	108	Total HpCDF	NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA	
117	110	Total HpCDD	NA		NA	
118	111	OCDF	NA		NA	
119	112	OCDD	NA		NA	
120						
121		**ETHANOL (mg/L)**	NA		NA	
122						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			PZ1		PZ1	
4			EM65E		FF48K	
5			6/24/02		2/10/03	
123		**PAHs (µg/L)**				
124		**EPA Method SW8270 SIM**				
125		Naphthalene	NA		NA	
126		2-Methylnaphthalene	NA		NA	
127		Acenaphthylene	NA		NA	
128		Acenaphthene	NA		NA	
129		Fluorene	NA		NA	
130		Anthracene	NA		NA	
131		Dibenzofuran	NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ2	
4			FF48J	
5			2/10/03	
6				
7	1	**CHLORINATED PHENOLS (µg/L)**		
8	2	**EPA Method SW8040**		
9	3	Pentachlorophenol	**590**	
10	4	2,4,6-Trichlorophenol	NA	
11	5	2,3,6-Trichlorophenol	NA	
12	6	2,4,5-Trichlorophenol	NA	
13	7	2,3,4-Trichlorophenol	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	9	2,3,4,5-Tetrachlorophenol	NA	
16	10			
17	11	**SEMIVOLATILES (µg/L)**		
18	12	**EPA Method SW8270**		
19	13	Phenol	NA	
20	14	4-Methylphenol	NA	
21	15	Isophorone	NA	
22	16	2,4-Dimethylphenol	NA	
23	17	Benzoic Acid	NA	
24	18	Naphthalene	NA	
25	19	2-Methylnaphthalene	NA	
26	20	2,4,6-Trichlorophenol	NA	
27	21	2,4,5-Trichlorophenol	NA	
28	22	Acenaphthene	NA	
29	23	Dibenzofuran	NA	
30	24	Fluorene	NA	
31	25	Pentachlorophenol	NA	
32	26	bis(2-Ethylhexyl)phthalate	NA	
33	27			
34	28	**VOLATILES (µg/L)**		
35	29	**EPA Method SW8260**		
36	30	Acetone	NA	
37	31	Carbon Disulfide	NA	
38	32	2-Butanone	NA	
39	33	Benzene	NA	
40	34	Bromoform	NA	
41	35	Toluene	NA	
42	36	Ethylbenzene	NA	
43	37	Styrene	NA	
44	38	m,p-Xylene	NA	
45	39	o-Xylene	NA	
46	40	1,3,5-Trimethylbenzene	NA	
47	41	1,2,4-Trimethylbenzene	NA	
48	42	Isopropylbenzene	NA	
49	43	n-Propylbenzene	NA	
50	44	tert-Butylbenzene	NA	
51	45	sec-Butylbenzene	NA	
52	46	4-Isopropyltoluene	NA	
53	47	n-Butylbenzene	NA	
54	48	Naphthalene	NA	
55	48.5	Methyl tert-butyl ether	NA	
56	49			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	51	**Method OR-DEQ**		
59	52	**TPH-Diesel**	NA	
60	53	**TPH-D Motor Oil**	NA	
61	54	**TPH-Gasoline**	NA	
62	55			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ2	
4			FF48J	
5			2/10/03	
63	56	**PRIORITY POLLUTANT**		
64	57	**METALS (mg/L)**		
65	58	Arsenic (7060)	NA	
66	59	Chromium (6010)	NA	
67	60	Copper (6010)	NA	
68	61	Lead (7421)	NA	
69	62	Nickel (6010)	NA	
70	63	Zinc (6010)	NA	
71	64			
72	65	**MAJOR IONS AND CONVENTIONALS**		
73	66	Calcium (mg/L) (6010)	NA	
74	67	Magnesium (mg/L) (6010)	NA	
75	68	Potassium (mg/L) (6010)	NA	
76	69	Sodium (mg/L) (6010)	NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA	
86	79			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ2	
4			FF48J	
5			2/10/03	
87	80	**FIELD PARAMETERS**		
88	81	pH (avg)	6.46	
89	82	Temperature (° C) (avg)	15.2	
90	83	Conductivity (um/hos)	483	
91	84	Dissolved oxygen (mg/L) (avg)	0.89	
92	85			
93	86	**DIOXINS AND FURANS (ng/L)**		
94	87	**Method 8290**		
95	88	2,3,7,8-TCDF	NA	
96	89	Total TCDF	NA	
97	90	2,3,7,8-TCDD	NA	
98	91	Total TCDD	NA	
99	92	1,2,3,7,8-PeCDF	NA	
100	93	2,3,4,7,8-PeCDF	NA	
101	94	Total PeCDF	NA	
102	95	1,2,3,7,8-PeCDD	NA	
103	96	Total PeCDD	NA	
104	97	1,2,3,4,7,8-HxCDF	NA	
105	98	1,2,3,6,7,8-HxCDF	NA	
106	99	2,3,4,6,7,8-HxCDF	NA	
107	100	1,2,3,7,8,9-HxCDF	NA	
108	101	Total HxCDF	NA	
109	102	1,2,3,4,7,8-HxCDD	NA	
110	103	1,2,3,6,7,8-HxCDD	NA	
111	104	1,2,3,7,8,9-HxCDD	NA	
112	105	Total HxCDD	NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	
115	108	Total HpCDF	NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	
117	110	Total HpCDD	NA	
118	111	OCDF	NA	
119	112	OCDD	NA	
120				
121		**ETHANOL (mg/L)**	NA	
122				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ2	
4			FF48J	
5			2/10/03	
123		**PAHs (µg/L)**		
124		**EPA Method SW8270 SIM**		
125		Naphthalene	NA	
126		2-Methylnaphthalene	NA	
127		Acenaphthylene	NA	
128		Acenaphthene	NA	
129		Fluorene	NA	
130		Anthracene	NA	
131		Dibenzofuran	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ3	
4			FF65B	
5			2/11/03	
6				
7	1	**CHLORINATED PHENOLS (µg/L)**		
8	2	**EPA Method SW8040**		
9	3	Pentachlorophenol	1.2	U
10	4	2,4,6-Trichlorophenol	NA	
11	5	2,3,6-Trichlorophenol	NA	
12	6	2,4,5-Trichlorophenol	NA	
13	7	2,3,4-Trichlorophenol	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	9	2,3,4,5-Tetrachlorophenol	NA	
16	10			
17	11	**SEMIVOLATILES (µg/L)**		
18	12	**EPA Method SW8270**		
19	13	Phenol	NA	
20	14	4-Methylphenol	NA	
21	15	Isophorone	NA	
22	16	2,4-Dimethylphenol	NA	
23	17	Benzoic Acid	NA	
24	18	Naphthalene	NA	
25	19	2-Methylnaphthalene	NA	
26	20	2,4,6-Trichlorophenol	NA	
27	21	2,4,5-Trichlorophenol	NA	
28	22	Acenaphthene	NA	
29	23	Dibenzofuran	NA	
30	24	Fluorene	NA	
31	25	Pentachlorophenol	NA	
32	26	bis(2-Ethylhexyl)phthalate	NA	
33	27			
34	28	**VOLATILES (µg/L)**		
35	29	**EPA Method SW8260**		
36	30	Acetone	NA	
37	31	Carbon Disulfide	NA	
38	32	2-Butanone	NA	
39	33	Benzene	NA	
40	34	Bromoform	NA	
41	35	Toluene	NA	
42	36	Ethylbenzene	NA	
43	37	Styrene	NA	
44	38	m,p-Xylene	NA	
45	39	o-Xylene	NA	
46	40	1,3,5-Trimethylbenzene	NA	
47	41	1,2,4-Trimethylbenzene	NA	
48	42	Isopropylbenzene	NA	
49	43	n-Propylbenzene	NA	
50	44	tert-Butylbenzene	NA	
51	45	sec-Butylbenzene	NA	
52	46	4-Isopropyltoluene	NA	
53	47	n-Butylbenzene	NA	
54	48	Naphthalene	NA	
55	48.5	Methyl tert-butyl ether	NA	
56	49			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	51	**Method OR-DEQ**		
59	52	**TPH-Diesel**	NA	
60	53	**TPH-D Motor Oil**	NA	
61	54	**TPH-Gasoline**	NA	
62	55			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ3	
4			FF65B	
5			2/11/03	
63	56	**PRIORITY POLLUTANT**		
64	57	**METALS (mg/L)**		
65	58	Arsenic (7060)	NA	
66	59	Chromium (6010)	NA	
67	60	Copper (6010)	NA	
68	61	Lead (7421)	NA	
69	62	Nickel (6010)	NA	
70	63	Zinc (6010)	NA	
71	64			
72	65	**MAJOR IONS AND CONVENTIONALS**		
73	66	Calcium (mg/L) (6010)	NA	
74	67	Magnesium (mg/L) (6010)	NA	
75	68	Potassium (mg/L) (6010)	NA	
76	69	Sodium (mg/L) (6010)	NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA	
86	79			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ3	
4			FF65B	
5			2/11/03	
87	80	**FIELD PARAMETERS**		
88	81	pH (avg)	5.24	
89	82	Temperature (° C) (avg)	15.7	
90	83	Conductivity (um/hos)	62	
91	84	Dissolved oxygen (mg/L) (avg)	1.66	
92	85			
93	86	**DIOXINS AND FURANS (ng/L)**		
94	87	**Method 8290**		
95	88	2,3,7,8-TCDF	NA	
96	89	Total TCDF	NA	
97	90	2,3,7,8-TCDD	NA	
98	91	Total TCDD	NA	
99	92	1,2,3,7,8-PeCDF	NA	
100	93	2,3,4,7,8-PeCDF	NA	
101	94	Total PeCDF	NA	
102	95	1,2,3,7,8-PeCDD	NA	
103	96	Total PeCDD	NA	
104	97	1,2,3,4,7,8-HxCDF	NA	
105	98	1,2,3,6,7,8-HxCDF	NA	
106	99	2,3,4,6,7,8-HxCDF	NA	
107	100	1,2,3,7,8,9-HxCDF	NA	
108	101	Total HxCDF	NA	
109	102	1,2,3,4,7,8-HxCDD	NA	
110	103	1,2,3,6,7,8-HxCDD	NA	
111	104	1,2,3,7,8,9-HxCDD	NA	
112	105	Total HxCDD	NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	
115	108	Total HpCDF	NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	
117	110	Total HpCDD	NA	
118	111	OCDF	NA	
119	112	OCDD	NA	
120				
121		**ETHANOL (mg/L)**	NA	
122				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ3	
4			FF65B	
5			2/11/03	
123		**PAHs (µg/L)**		
124		**EPA Method SW8270 SIM**		
125		Naphthalene	NA	
126		2-Methylnaphthalene	NA	
127		Acenaphthylene	NA	
128		Acenaphthene	NA	
129		Fluorene	NA	
130		Anthracene	NA	
131		Dibenzofuran	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			Q		Q		Q	
4			0408056-05		0502110-03		P5F0666-07	
5			8/09/04		2/24/05		6/15/05	
7	1	**CHLORINATED PHENOLS (µg/L)**						
8	2	**EPA Method SW8040**						
9	3	Pentachlorophenol	NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA	
16	10							
17	11	**SEMIVOLATILES (µg/L)**						
18	12	**EPA Method SW8270**						
19	13	Phenol	**10.7**		**4.03**		**74.6**	J
20	14	4-Methylphenol	10.3	U	**14.4**		**28.0**	
21	15	Isophorone	1.03	U	1.01	U	5.00	U
22	16	2,4-Dimethylphenol	3.09	U	3.02	U	10.00	U
23	17	Benzoic Acid	20.6	U	20.1	U	50.0	U
24	18	Naphthalene	1.03	U	1.01	U	5.00	U
25	19	2-Methylnaphthalene	**19.8**		1.01	U	5.00	U
26	20	2,4,6-Trichlorophenol	5.15	U	5.03	U	5.00	U
27	21	2,4,5-Trichlorophenol	5.15	U	5.03	U	5.00	U
28	22	Acenaphthene	**6.46**		**5.91**		**10.6**	
29	23	Dibenzofuran	**3.79**		**4.10**		**5.31**	
30	24	Fluorene	**4.97**		**5.26**		**9.01**	
31	25	Pentachlorophenol	5.15	U	5.03	U	10	U
32	26	bis(2-Ethylhexyl)phthalate	1.03	U	1.01	U	10.00	U
33	27							
34	28	**VOLATILES (µg/L)**						
35	29	**EPA Method SW8260**						
36	30	Acetone	50	U	50	U	125	U
37	31	Carbon Disulfide	2	U	2	U	50.0	U
38	32	2-Butanone	10	U	10	U	50.0	U
39	33	Benzene	**1030**		**259**		**909**	
40	34	Bromoform	1	U	1	U	5.00	U
41	35	Toluene	**21.2**		**11.4**		**13.4**	
42	36	Ethylbenzene	**12.1**		**5.28**		**5.55**	
43	37	Styrene	1	U	1	U	5.00	U
44	38	m,p-Xylene	**27.4**		**18.4**		**12.6**	
45	39	o-Xylene	**8.17**		**7.62**		5.00	U
46	40	1,3,5-Trimethylbenzene	**3.73**		**7.33**		5.00	U
47	41	1,2,4-Trimethylbenzene	**3.47**		**6.55**		5.00	U
48	42	Isopropylbenzene	**78.4**		**47.3**		**42.8**	
49	43	n-Propylbenzene	**116**		**86.6**		**84.1**	
50	44	tert-Butylbenzene	1	U	1	U	5.00	U
51	45	sec-Butylbenzene	**8.81**		**5.91**		**5.10**	
52	46	4-Isopropyltoluene	1	U	1	U	10.00	U
53	47	n-Butylbenzene	**9.01**		**10.9**		25.0	U
54	48	Naphthalene	1	U	**2.61**		10.00	U
55	48.5	Methyl tert-butyl ether	1	U	1	U	5.00	U
56	49							
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**						
58	51	**Method OR-DEQ**						
59	52	**TPH-Diesel**	**5.56**		**3.22**		**1.81**	
60	53	**TPH-D Motor Oil**	0.495	U	0.489	U	0.5	U
61	54	**TPH-Gasoline**	**2.88**		**2.28**		**2.56**	
62	55							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			Q		Q		Q	
4			0408056-05		0502110-03		P5F0666-07	
5			8/09/04		2/24/05		6/15/05	
63	56	**PRIORITY POLLUTANT**						
64	57	**METALS (mg/L)**						
65	58	Arsenic (7060)	**0.034**		**0.038**		**0.0389**	
66	59	Chromium (6010)	**0.017**		**0.0059**		0.001	U
67	60	Copper (6010)	0.01	U	0.01	U	0.002	U
68	61	Lead (7421)	**0.00735**		**0.0104**		**0.0135**	
69	62	Nickel (6010)	0.005	U	0.005	U	**0.00255**	
70	63	Zinc (6010)	0.01	U	0.01	U	0.005	U
71	64							
72	65	**MAJOR IONS AND CONVENTIONALS**						
73	66	Calcium (mg/L) (6010)	NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**338**		**455**		**365**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.1**		**2.73**		**2.20**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA	
86	79							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			Q		Q		Q	
4			0408056-05		0502110-03		P5F0666-07	
5			8/09/04		2/24/05		6/15/05	
87	80	**FIELD PARAMETERS**						
88	81	pH (avg)	6.16		6.79		6.72	
89	82	Temperature (° C) (avg)	15.8		13		14.3	
90	83	Conductivity (um/hos)	692		206		297	
91	84	Dissolved oxygen (mg/L) (avg)	3.72		0.43		NA	
92	85							
93	86	**DIOXINS AND FURANS (ng/L)**						
94	87	**Method 8290**						
95	88	2,3,7,8-TCDF	NA		NA		NA	
96	89	Total TCDF	NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA	
98	91	Total TCDD	NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA	
118	111	OCDF	NA		NA		NA	
119	112	OCDD	NA		NA		NA	
120								
121		**ETHANOL (mg/L)**	NA		NA		NA	
122								

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			Q		Q		Q	
4			0408056-05		0502110-03		P5F0666-07	
5			8/09/04		2/24/05		6/15/05	
123		**PAHs (µg/L)**						
124		**EPA Method SW8270 SIM**						
125		Naphthalene	**0.398**		**0.837**		2.50	U
126		2-Methylnaphthalene	NA		NA		NA	
127		Acenaphthylene	**0.239**		**0.167**		1.00	U
128		Acenaphthene	**5.04**		**4.71**		**6.70**	
129		Fluorene	**3.81**		**5.13**		**6.88**	
130		Anthracene	**0.259**		**0.266**		1.00	U
131		Dibenzofuran	NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																	Dup of RW1						Dup of RW1					
3			RW1		RW1		RW1		RW1		RW1		RW1		RW1		W		RW1		RW1		W		RW1		RW1	
4			AH76F		AU36E		BC21U		BH96X		BR64O		CB68G		CK77B		CK77A		CT67K		DE87Q		DE87M		DM30G		DW37D	
5			5/20/99		9/21/99		12/7/99		2/16/00		5/25/00		8/30/00		11/7/00		11/7/00		2/15/01		6/6/01		6/6/01		8/13/01		11/28/01	
6																												
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	**130**		**3100**		**3400**		**6400**		**11000**		**6300**		**3400**		**3400**		**11000**	J	NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	**0.22**	J1	**0.77**		**1.7**		**3.1**		**2.4**		**2.3**		**1.1**		**1.1**		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	**0.12**	J1	0.25	U	**0.33**		**0.54**		0.53	U	**0.53**		0.44	U	0.48	U	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	3.1	U	14	U	20	U	3.0	U	6.2	U	22	U	30	U	32	U	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.27	U	0.25	U	0.25	U	0.25	U	**0.79**		0.25	U	0.25	U	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**48**		**250**		**620**		**530**		**580**		**1100**		**630**		**640**		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	**1.1**		**7.3**		**9.3**		**9.3**		**21**		**24**		**16**		**16**		NA		NA		NA		NA		NA	
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	2.0	U	**5.7**		**4.0**		**6.5**		2.0	U	**15**		**8.2**	J2	**14**	J2	**60**		**12**		**12**		**32**		**2.1**	
20	14	4-Methylphenol	1.0	U	**1.4**		2.0	U	**7.0**		1.0	U	**1.6**	M	1.0	U	1.0	U	**16**		**1.7**		**1.8**		**2.1**		1.0	U
21	15	Isophorone	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	6.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	20	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	50	U
24	18	Naphthalene	1.0	U	**2.5**		**4.2**		**2.8**		**12**		**12**		**7.1**		**5.8**		**13**		**9.3**		**9.8**		**2.7**		**13**	
25	19	2-Methylnaphthalene	1.0	U	1.0	U	2.0	U	1.0	U	**2.0**		**3.4**		**2.2**		**1.7**		**5.2**		**3.7**		**4.0**		1.0	U	**3.7**	
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	10	U	5.0	U	**6.2**		**6.8**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	**35**		5.0	U	5.0	U	5.0	U	**40**		**31**		**17**		**13**		**13**		**6.9**		5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	**150**		**3100**		**4100**		**2800**		**7300**		**5400**		**4000**		**3900**		**1400**	J	**1900**		**2000**		**410**		**17**	
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	**1.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	5.0	U	5.0	U	**30**		5.0	U	**39**	M	30	U	**16**		**14**		**28**		**13**		**13**		**7.2**	M	**8.4**	
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	6.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	**7.9**		**29**		**47**		**80**		25	U	30	U	**7.4**	J2	**41**	J2	5.0	U	**5.7**		**6.4**		**5.6**		**30**	
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	6.0	U	**1.0**		1.0	U	**9.0**		**3.4**		**3.4**		**11**		**24**	
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	6.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	**6.6**		**1.8**		**1.1**		**20**		**14**		**9.1**		**8.2**		**18**		**14**		**15**		**18**		**5.7**	
42	36	Ethylbenzene	**1.3**		**51**		**34**		**31**		**130**		**120**		**96**		**86**		**80**		**71**		**72**		**82**		**74**	
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	6.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	**1.6**		**52**		**23**		**32**		**170**		**150**		**92**		**82**		**160**		**140**		**140**		**200**		**270**	
45	39	o-Xylene	**1.6**		**130**		**71**		**73**		**250**		**240**		**160**		**150**		**110**		**100**		**100**		**120**		**87**	
46	40	1,3,5-Trimethylbenzene	1.0	U	**41**		**12**		**38**		**120**		**64**		**29**		**25**		**58**		**37**		**38**		**40**		**53**	
47	41	1,2,4-Trimethylbenzene	**2.2**		**160**		**75**		**170**		**500**		**320**		**240**		**250**		**160**		**160**		**160**		**150**		**200**	
48	42	Isopropylbenzene	**3.5**		**36**		**23**		**21**		**58**		**47**		**26**		**21**		**28**		**28**		**28**		**29**		**26**	
49	43	n-Propylbenzene	**1.5**		**37**		**24**		**35**		**82**		**61**		**36**		**31**		**45**		**34**		**36**		**36**		**32**	
50	44	tert-Butylbenzene	1.0	U	**2.6**		**1.6**		**2.0**	M	5.0	U	6.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
51	45	sec-Butylbenzene	**3.2**		**17**		**8.6**		**14**		**21**		**16**		**11**		**10**		**10**		**7.7**		**7.8**		**6.8**		1.0	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	**1.6**		**7.2**		**13**		**8.6**		**5.2**		**4.6**		**5.9**		**4.1**		**4.2**		**3.8**		**5.5**	
53	47	n-Butylbenzene	1.0	U	**4.7**		2.3	U	**5.8**	M	5.0	U	7.7	U	**6.0**		**6.0**		**9.2**	M	6.0	U	6.2	U	4.8	U	**4.7**	M
54	48	Naphthalene	5.0	U	**7.1**		**7.3**		**8.9**		25	U	30	U	**11**		**12**		**29**		**25**		**28**		**14**		**24**	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	51	**Method OR-DEQ**																										
59	52	**TPH-Diesel**	**1.0**		**7.5**		**5.7**		**5.1**		**12**		**13**		**6.4**		**5.7**		**4.1**		**4.9**		**4.5**		**4.3**		**4.7**	
60	53	**TPH-D Motor Oil**	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	2.0	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U	2.0	U
61	54	**TPH-Gasoline**	**0.63**		**6.6**		**5.1**		**4.5**		**29**		**26**		**9.7**		**9.9**		**7.1**		**5.4**		**5.3**		**7.7**		**5.2**	
62	55																											

BZTO104(e)021971

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA
2		Dup of RW1						Dup of RW1										Dup of RW1								Dup of RW1
3		X		RW1		RW1		X		RW1		RW1		RW1		RW1		X		RW1		RW1		RW1		W
4		DW37A		ED34A		EM66B		EM66A		ER93J		EZ17H		FF65D		FL41L		FL41P		FU50C		FY72J		0402086-10		0402113-05
5		11/28/01		2/28/02		6/24/02		6/24/02		08/27/02		11/13/02		2/11/03		5/7/03		5/7/03		8/29/03		10/22/03		2/18/04		2/23/04
7	**CHLORINATED PHENOLS (µg/L)**																									
8	**EPA Method SW8040**																									
9	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
16																										
17	**SEMIVOLATILES (µg/L)**																									
18	**EPA Method SW8270**																									
19	Phenol	2.0	U	**66**		**57**	J	**76**	J	**16**		**10**		**8.9**		2.1	U	2	U	**24**		**3.7**	M	1.96	U	1.96
20	4-Methylphenol	1.0	U	**4.6**		**21**		**25**		**5.4**		1.2	U	**6.9**		1	U	1	U	**5.3**		1	U	9.8	U	9.78
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1	U	1	U	1	U	1	U	1	U	0.98	U	0.978
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	**53**		3.5	U	**3.8**		3.1	U	3.1	U	13	U	6.4	U	2.94	U	2.93
23	Benzoic Acid	50	U	50	U	50	U	50	U	54	U	58	U	50	U	52	U	51	U	50	U	10	U	19.6	U	19.6
24	Naphthalene	**12**		**6.9**		**11**	J	**15**	J	**16**		**8.6**		**14**		**3.7**		**3.7**		**9**		**5.1**		**15.6**		**3.63**
25	2-Methylnaphthalene	**3.3**		**2.3**		**5.1**		**6.1**		**6**		**4.4**		**6.5**		**1.6**		**1.6**		**2.8**		1	U	**6.33**		**10.4**
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.4	U	5.8	U	5	U	5.2	U	5.1	U	**13**		5.1	U	**14.8**		4.89
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	**5.8**	M	**20**		5.8	U	**9.2**	M	5.2	U	5.1	U	**20**		**33**		4.9	U	4.89
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1	U	1	U	1	U	1	U	1	U	0.98	U	0.978
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1	U	1	U	1	U	1	U	1	U	0.98	U	0.978
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1	U	1	U	1	U	1	U	1	U	0.98	U	0.978
31	Pentachlorophenol	**17**		**1200**		**880**	J	**1100**	J	**2600**		**5400**		**2800**		**1700**		**1600**		**1400**		**350**		**2630**		**8.69**
32	bis(2-Ethylhexyl)phthalate	4.0	U	4.0	U	4.0	U	4.0	U	4.3	U	4.7	U	1	U	**9.8**	J	**3.3**	J	1	U	1	U	0.98	U	0.978
33																										
34	**VOLATILES (µg/L)**																									
35	**EPA Method SW8260**																									
36	Acetone	**7.6**		**110**	J	50	U	48	U	15	U	5	U	**16**	M	**20**		**24**	M	**26**	MJ	**15**	M	50	U	50
37	Carbon Disulfide	1.0	U	1.0	U	3.0	U	1.0	U	3	U	1	U	1	U	1	U	1	U	1	U	1	U	2	U	2
38	2-Butanone	**30**	M	**47**	J	15	U	**16**	J	**32**	M	5	U	5	U	5	U	5	U	5	U	**46**	M	10	U	10
39	Benzene	**23**		**1.9**	J	3.0	U	3.0	U	**4.8**		**22**		**12**		**1**		**2**		**4.9**	J	**4.9**		**7.42**		**5.96**
40	Bromoform	1.0	U	1.0	U	3.0	U	1.0	U	3	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
41	Toluene	**5.3**		**12**	J	**16**		**14**	J	**15**		**13**		1	U	1	U	1	U	**3**	J	1	U	1	U	1
42	Ethylbenzene	**74**		**81**	J	**140**		**120**	J	**120**		**130**		**57**		**14**	J	**37**	J	**68**	J	**64**		**106**		**11.9**
43	Styrene	1.0	U	1.0	U	3.0	U	1.0	U	3	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
44	m,p-Xylene	**280**		**97**	J	**310**		**250**	J	**230**		**160**		**41**		**12**	J	**34**	J	**90**	J	**62**		**45.6**		**5.89**
45	o-Xylene	**87**		**170**	J	**220**		**190**	J	**200**		**200**		**73**		**25**	J	**66**		**120**	J	**90**		**142**		**2.22**
46	1,3,5-Trimethylbenzene	**52**		**40**	J	**100**		**100**	J	**97**		**87**		**19**		**9.8**	J	**30**	J	**67**	J	**31**		**55.2**		**20.8**
47	1,2,4-Trimethylbenzene	**200**		**170**	J	**370**		**310**	J	**380**		**410**		**110**		**64**	J	**160**	J	**230**		**170**		**180**		**67.9**
48	Isopropylbenzene	**26**		**29**	J	**42**		**47**	J	**53**		**60**		**20**		**12**	J	**24**	J	**42**	J	**34**		**43.9**		**40.8**
49	n-Propylbenzene	**31**		**34**	J	**63**		**64**	J	**72**		**80**		**29**		**14**	J	**32**	J	**52**	J	**40**		**57.2**		**61.9**
50	tert-Butylbenzene	1.0	U	**1.8**	J	3.0	U	3.0	U	3	U	**3**		**1**		**1.7**		**2.3**		**3.1**	J	**2**		**1.15**		1
51	sec-Butylbenzene	1.0	U	**8.9**	J	3.0	U	3.0	U	3	U	**16**		**5.5**		**5.7**	J	**9.3**	J	**17**	J	**11**		**12.9**		**8.99**
52	4-Isopropyltoluene	**5.4**		4.5	U	**9.3**		**8.8**	J	**11**		**9.5**		**2.6**		**1.2**	J	**6.2**	J	**6.9**	J	**3.6**		**5.2**		**2.19**
53	n-Butylbenzene	**4.7**	M	**6.8**	J	10	U	8.2	U	**14**	M	**9**		**4**	M	**2.2**	MJ	**4.5**	J	**7.3**	MJ	**4.7**	M	**5.52**		**5.23**
54	Naphthalene	**22**		**21**	J	**19**		**20**	J	**45**		**19**		**19**		5	U	**10**		**19**	J	**13**		**27.6**		**4.49**
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1
56																										
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																									
58	**Method OR-DEQ**																									
59	**TPH-Diesel**	**5.0**		**4.9**		**6.8**	J	**17**	J	**9.4**		**13**		**6.8**		**5.1**		**5.4**		**8.1**		**5.8**		**11.2**	J	**1.08**
60	**TPH-D Motor Oil**	0.50	U	0.50	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	**1.22**	J	0.492
61	**TPH-Gasoline**	**5.3**		12		**13**		**14**		**14**		**18**		**6.9**		**5.2**	J	**6.7**	J	**8.2**		**7**		**6.3**		**2.4**
62																										

BZTO104(e)021972

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP
1																
2											Dup of RW1				Dup of RW1	
3			RW1		RW1		RW1		RW1		W		RW1		W	
4			0406074-10		0408025-01		0411066-11		0502087-04		0502087-05		P5F0668-05		P5F0668-06	
5			6/10/04		8/04/04		11/11/04		2/17/05		2/17/05		6/15/05		6/15/05	
6																
7	**CHLORINATED PHENOLS (µg/L)**															
8	**EPA Method SW8040**															
9	Pentachlorophenol		NA		NA		NA		NA		NA		NA		NA	
10	2,4,6-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol		NA		NA		NA		NA		NA		NA		NA	
16																
17	**SEMIVOLATILES (µg/L)**															
18	**EPA Method SW8270**															
19	Phenol	U	1.9	U	2	U	2.01	U	1.95	U	1.95	U	5.00	U	5.00	U
20	4-Methylphenol	U	9.49	U	10	U	10.1	U	9.76	U	9.74	U	5.00	U	5.00	U
21	Isophorone	U	0.949	U	1	U	1.01	U	0.976	U	0.974	U	5.00	U	5.00	U
22	2,4-Dimethylphenol	U	2.85	U	3	U	3.02	U	2.93	U	2.92	U	10.00	U	10.00	U
23	Benzoic Acid	U	19	U	20	U	20.1	U	19.5	U	19.5	U	50.0	U	50.0	U
24	Naphthalene		**8.1**		**7.35**		**3.61**		0.976	U	0.974	U	5.00	U	5.00	U
25	2-Methylnaphthalene		**4.13**		**1.84**		**1.02**		0.976	U	0.974	U	5.00	U	5.00	U
26	2,4,6-Trichlorophenol	U	4.74	U	**19.9**		**23.4**		4.88	U	4.87	U	5.00	U	5.00	U
27	2,4,5-Trichlorophenol	U	4.74	U	5	U	5.03	U	4.88	U	4.87	U	5.00	U	5.00	U
28	Acenaphthene	U	0.949	U	1	U	1.01	U	0.976	U	0.974	U	5.00	U	5.00	U
29	Dibenzofuran	U	0.949	U	1	U	1.01	U	0.976	U	0.974	U	5.00	U	5.00	U
30	Fluorene	U	0.949	U	1	U	1.01	U	0.976	U	0.974	U	5.00	U	5.00	U
31	Pentachlorophenol		**903**		**160**		**123**		**205**	J	**137**	J	**271**		**301**	
32	bis(2-Ethylhexyl)phthalate	U	0.949	U	1	U	1.01	U	0.976	U	0.974	U	10.00	U	10.00	U
33																
34	**VOLATILES (µg/L)**															
35	**EPA Method SW8260**															
36	Acetone	U	50	U	50	U	50	U	50	U	50	U	25.0	U	25.0	U
37	Carbon Disulfide	U	2	U	2	U	2	U	2	U	2	U	10.00	U	10.00	U
38	2-Butanone	U	10	U	10	U	10	U	10	U	10	U	10.00	U	10.00	U
39	Benzene		**6.78**		**8.67**	J	**6.12**		**8.62**		**10**		**11.8**		**11.9**	
40	Bromoform	U	1	U	1	U	1	U	1	U	1	U	1.00	U	1.00	U
41	Toluene	U	1	U	**1.6**	J	1	U	1	U	1	U	1.00	U	1.00	U
42	Ethylbenzene		**90.7**		**192**	J	**31.8**		**23.2**		**28.2**		**6.46**		**6.45**	
43	Styrene	U	1	U	1	U	1	U	1	U	1	U	1.00	U	1.00	U
44	m,p-Xylene		**110**		**299**	J	**40.3**		2	U	2	U	2.00	U	2.00	U
45	o-Xylene		**130**		**294**	J	**47.8**		**54.3**		**63.8**		**37.6**		**37.0**	
46	1,3,5-Trimethylbenzene		**66.6**		**83.8**	J	**22.5**		**2.54**		**2.31**		1.00	U	1.00	U
47	1,2,4-Trimethylbenzene		**226**		**349**	J	**84.4**		**133**		**160**		**53.6**		**52.8**	
48	Isopropylbenzene		**35.7**		**75.2**	J	**17**		**27.2**	J	**35.8**	J	**29.2**		**29.6**	
49	n-Propylbenzene		**57.3**		**58**	J	**17.2**		**27.1**	J	**36.3**	J	**20.6**		**21.0**	
50	tert-Butylbenzene	U	**1.95**		**2.29**	J	**1.8**		**3.4**		**3.94**		**1.67**		**1.83**	
51	sec-Butylbenzene		**10.5**		**12.3**	J	**4.37**		**7.89**	J	**10.2**	J	**6.44**		**6.82**	
52	4-Isopropyltoluene		**5.98**		**6.33**	J	**2.08**		1	U	1	U	2.00	U	2.00	U
53	n-Butylbenzene		**4.07**		**3.86**	J	**2**		**5.52**		**6.32**		5.00	U	5.00	U
54	Naphthalene		**16.7**		**17.6**	J	**13**		**6.78**		**8.21**		**2.08**		**2.18**	
55	Methyl tert-butyl ether	U	1	U	1	U	1	U	1	U	1	U	1.00	U	1.00	U
56																
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**															
58	**Method OR-DEQ**															
59	**TPH-Diesel**		NA		**6.12**		NA		**2.62**		**2.82**		**0.539**		**0.58**	
60	**TPH-D Motor Oil**	U	NA		0.51	U	NA		0.494	U	0.498	U	0.556	U	0.5	U
61	**TPH-Gasoline**		NA		**5.48**		NA		**2.02**	J	**2.61**	J	**1.27**		**1.38**	
62																

BZTO104(e)021973

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																	Dup of RW1						Dup of RW1					
3			RW1		RW1		RW1		RW1		RW1		RW1		RW1		W		RW1		RW1		W		RW1		RW1	
4			AH76F		AU36E		BC21U		BH96X		BR64O		CB68G		CK77B		CK77A		CT67K		DE87Q		DE87M		DM30G		DW37D	
5			5/20/99		9/21/99		12/7/99		2/16/00		5/25/00		8/30/00		11/7/00		11/7/00		2/15/01		6/6/01		6/6/01		8/13/01		11/28/01	
63	56	**PRIORITY POLLUTANT**																										
64	57	**METALS (mg/L)**																										
65	58	Arsenic (7060)	**0.002**		**0.005**		**0.006**		**0.004**		**0.004**		**0.006**		**0.006**		**0.006**		**0.007**		**0.007**		**0.007**		**0.008**		**0.009**	
66	59	Chromium (6010)	0.005	U	0.005	U	**0.007**		**0.011**		0.005	U	0.005	U	**0.015**		**0.010**		0.005	U	0.005	U	0.005	U	0.005	U	**0.008**	J
67	60	Copper (6010)	**0.018**		**0.003**		**0.013**		**0.024**		**0.005**		0.002	U	**0.020**	J2	**0.016**	J2	0.002	U	0.002	U	0.002	U	0.002	U	**0.008**	J
68	61	Lead (7421)	**0.003**		0.001	U	**0.004**		**0.005**		0.001	U	0.001	U	**0.006**		**0.004**		0.001	U	0.001	U	0.001	U	0.001	U	**0.002**	J
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	**0.02**		0.01	U	0.01	U	**0.01**		**0.01**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	**0.020**		0.004	U	**0.028**		**0.046**		0.006	U	0.006	U	**0.054**		**0.048**		**0.017**		0.006	U	0.006	U	0.006	U	**0.026**	J
71	64																											
72	65	**MAJOR IONS AND CONVENTIONALS**																										
73	66	Calcium (mg/L) (6010)	**37.3**		NA		NA		NA		NA		NA		NA		NA		**49.1**		**36.1**		**37.3**		**45.3**		**58.7**	J
74	67	Magnesium (mg/L) (6010)	**11.7**		NA		NA		NA		NA		NA		NA		NA		**15.2**		**11.9**		**12.2**		**15.2**		**19.5**	J
75	68	Potassium (mg/L) (6010)	**4.0**		NA		NA		NA		NA		NA		NA		NA		**4.0**		**2.8**		**3.4**		**3.5**		**4.2**	
76	69	Sodium (mg/L) (6010)	**6.03**		NA		NA		NA		NA		NA		NA		NA		**6.67**		**6.01**		**5.59**		**6.62**		**8.18**	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**140**		NA		NA		NA		NA		NA		NA		NA		**230**		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	NA		NA		NA		NA		NA		NA		NA		1.0	U	NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**140**		NA		NA		NA		NA		NA		NA		NA		**230**		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**180**		**210**		**170**		**200**		**350**		**240**		**220**		**230**		**320**		**220**	J	**220**	J	**220**	J	**290**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.9**		**3.8**		**6.7**		**12**		**4.2**		**13**		**7.3**		**6.2**		**5.9**	J	**4.7**		**5.1**		**7.6**		**8.4**	
82	75	N-Nitrate (mg-N/L) (Calculated)	0.010	U	NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	NA		NA		NA		NA		NA		NA		NA		**0.023**	J	NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	0.010	U	NA		NA		NA		NA		NA		NA		NA		**0.030**		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	**3.8**		NA		NA		NA		NA		NA		NA		NA		**3.0**		NA		NA		NA		NA	
86	79																											

BZTO104(e)021974

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA
1																										
2		Dup of RW1						Dup of RW1										Dup of RW1								Dup of RW1
3		X		RW1		RW1		X		RW1		RW1		RW1		RW1		X		RW1		RW1		RW1		W
4		DW37A		ED34A		EM66B		EM66A		ER93J		EZ17H		FF65D		FL41L		FL41P		FU50C		FY72J		0402086-10		0402113-05
5		11/28/01		2/28/02		6/24/02		6/24/02		08/27/02		11/13/02		2/11/03		5/7/03		5/7/03		8/29/03		10/22/03		2/18/04		2/23/04
63	**PRIORITY POLLUTANT**																									
64	**METALS (mg/L)**																									
65	Arsenic (7060)	**0.008**		**0.008**		**0.006**		**0.006**		**0.008**		0.05	U	**0.004**		**0.005**		**0.005**		**0.006**		**0.005**		**0.004**		**0.021**
66	Chromium (6010)	**0.014**	J	**0.015**		0.005	U	0.005	U	0.005	U	**0.013**		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.0093**		**0.0077**
67	Copper (6010)	**0.013**	J	**0.028**		**0.005**		**0.006**		**0.004**		**0.018**		**0.006**		**0.004**		**0.005**		**0.003**		**0.005**		**0.0172**		0.01
68	Lead (7421)	**0.004**	J	**0.006**		**0.001**		0.001	U	**0.001**		0.02	U	0.001	U	0.001	U	**0.001**		0.001	U	0.001	U	**0.0005**		0.0001
69	Nickel (6010)	**0.01**		**0.02**		0.01	U	0.01	U	0.01	U	**0.02**		**0.11**		0.01	U	**0.01**		0.01	U	0.01	U	0.005	U	0.005
70	Zinc (6010)	**0.038**	J	**0.054**		**0.016**		**0.020**		0.006	U	**0.055**		**0.008**		**0.065**	J	**0.013**	J	**0.009**		**0.01**		0.01	U	0.01
71																										
72	**MAJOR IONS AND CONVENTIONALS**																									
73	Calcium (mg/L) (6010)	**65.4**	J	**152**		NA		NA		NA		NA		**31.7**		NA		NA		NA		NA		NA		NA
74	Magnesium (mg/L) (6010)	**21.8**	J	**51.9**		NA		NA		NA		NA		**10.6**		NA		NA		NA		NA		NA		NA
75	Potassium (mg/L) (6010)	**5.1**		**6.7**		NA		NA		NA		NA		**3.6**		NA		NA		NA		NA		NA		NA
76	Sodium (mg/L) (6010)	**9.48**		**12.0**		NA		NA		NA		NA		**7.9**		NA		NA		NA		NA		NA		NA
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		**480**		NA		NA		NA		NA		**130**		NA		NA		NA		NA		NA		NA
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		1.0	U	NA		NA		NA		NA		1	U	NA		NA		NA		NA		NA		NA
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		**480**		NA		NA		NA		NA		**130**		NA		NA		NA		NA		NA		NA
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**280**		**1100**		**1900**		**2000**		**230**		**260**		**230**		**240**		**240**		**320**		**320**		**242**		**239**
81	Chloride (mg/L) (EPA 325.2)	**8.3**		**11**		**8.8**		**8.0**		**6.4**		**7.0**		**5.4**		**6**		**6**		**5.9**		**7.8**		**4.79**		**3.95**
82	N-Nitrate (mg-N/L) (Calculated)	NA		**0.044**		NA		NA		NA		NA		**0.043**		NA		NA		NA		NA		NA		NA
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		0.010	U	NA		NA		NA		NA		**0.043**		NA		NA		NA		NA		NA		NA
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		**0.044**		NA		NA		NA		NA		**0.086**		NA		NA		NA		NA		NA		NA
85	Sulfate (mg/L) (EPA 375.2)	NA		**5.7**		NA		NA		NA		NA		**46**		NA		NA		NA		NA		NA		NA
86																										

BZTO104(e)021975

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP
1																
2											Dup of RW1				Dup of RW1	
3			RW1		RW1		RW1		RW1		W		RW1		W	
4			0406074-10		0408025-01		0411066-11		0502087-04		0502087-05		P5F0668-05		P5F0668-06	
5			6/10/04		8/04/04		11/11/04		2/17/05		2/17/05		6/15/05		6/15/05	
63	**PRIORITY POLLUTANT**															
64	**METALS (mg/L)**															
65	Arsenic (7060)		**0.012**		**0.006**		**0.00526**		**0.00343**		**0.00345**		**0.00251**		**0.00254**	
66	Chromium (6010)		**0.0382**		0.005	U	**0.0244**		0.005	U	**0.0075**		**0.00348**	J	**0.00542**	J
67	Copper (6010)	U	**0.0286**		0.01	U	0.01	U	0.01	U	0.01	U	**0.0191**		**0.0215**	
68	Lead (7421)	U	**0.0082**		**0.000111**		**0.00434**		0.000331	U	0.000316	U	**0.00218**	J	**0.00302**	J
69	Nickel (6010)	U	**0.0199**		0.005	U	0.005	U	**0.0175**		**0.0173**		**0.0600**		**0.0644**	
70	Zinc (6010)	U	**0.102**		**0.0244**		**0.0394**		0.01	U	0.01	U	**0.0222**	J	**0.0286**	J
71																
72	**MAJOR IONS AND CONVENTIONALS**															
73	Calcium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**472**		**495**		**437**		**268**		**265**		**366**		**382**	
81	Chloride (mg/L) (EPA 325.2)		**6.59**		**4.89**		**5.55**		**6.92**		**6.49**		**4.05**		**4.15**	
82	N-Nitrate (mg-N/L) (Calculated)		NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)		NA		NA		NA		NA		NA		NA		NA	
86																

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																	Dup of RW1						Dup of RW1					
3			RW1		RW1		RW1		RW1		RW1		RW1		RW1		W		RW1		RW1		W		RW1		RW1	
4			AH76F		AU36E		BC21U		BH96X		BR64O		CB68G		CK77B		CK77A		CT67K		DE87Q		DE87M		DM30G		DW37D	
5			5/20/99		9/21/99		12/7/99		2/16/00		5/25/00		8/30/00		11/7/00		11/7/00		2/15/01		6/6/01		6/6/01		8/13/01		11/28/01	
87	80	**FIELD PARAMETERS**																										
88	81	pH (avg)	6.54		6.14		6.18		6.44		6.46		5.69		5.28		5.27		6.35		6.62		6.61		6.54		6.51	
89	82	Temperature (° C) (avg)	14.0		17.3		17.2		14.6		13.2		14.8		14.2		14.1		12.7		14.4		14.4		16.4		13.7	
90	83	Conductivity (um/hos)	244		271		273		211		440		314		305		303		506		377		377		389		584	
91	84	Dissolved oxygen (mg/L) (avg)	1.52		2.09		1.72		0.76		1.00		0.87		0.69		0.72		0.32		0.97		0.94		1.10		3.36	
92	85																											
93	86	**DIOXINS AND FURANS (ng/L)**																										
94	87	**Method 8290**																										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121		**ETHANOL (mg/L)**	NA		NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA	
122																												

BZTO104(e)021977

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA
1																										
2		Dup of RW1						Dup of RW1										Dup of RW1								Dup of RW1
3		X		RW1		RW1		X		RW1		RW1		RW1		RW1		X		RW1		RW1		RW1		W
4		DW37A		ED34A		EM66B		EM66A		ER93J		EZ17H		FF65D		FL41L		FL41P		FU50C		FY72J		0402086-10		0402113-05
5		11/28/01		2/28/02		6/24/02		6/24/02		08/27/02		11/13/02		2/11/03		5/7/03		5/7/03		8/29/03		10/22/03		2/18/04		2/23/04
87	**FIELD PARAMETERS**																									
88	pH (avg)	6.5		6.15		6.16		6.14		6.71		6.03		6.4		6.82		6.84		6.65		6.73		6.68		6.34
89	Temperature (° C) (avg)	13.5		12.8		15.6		15.6		15.6		17.3		15.3		14.2		14.2		15.4		17.5		13.8		14.3
90	Conductivity (um/hos)	583		878		803		805		291		394		366		308		308		430		415		343		345
91	Dissolved oxygen (mg/L) (avg)	3.43		7.27		3.86		3.54		0.00		0.00		0		1.79		1.75		1.59		2.65		1.35		1.32
92																										
93	**DIOXINS AND FURANS (ng/L)**																									
94	**Method 8290**																									
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		3.0	U	NA		NA
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		3.0	U	NA		NA
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		4.1	U	NA		NA
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.4	U	NA		NA
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.9	U	NA		NA
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.7	U	NA		NA
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.7	U	NA		NA
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.9	U	NA		NA
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**6.5**		NA		NA
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.2	U	NA		NA
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1.9	U	NA		NA
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.1	U	NA		NA
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.3	U	NA		NA
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**20.2**		NA		NA
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.8	U	NA		NA
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		3.0	U	NA		NA
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.4	U	NA		NA
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**19.9**		NA		NA
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**18.1**	J	NA		NA
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		4.3	U	NA		NA
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**86**		NA		NA
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**125**		NA		NA
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**211**		NA		NA
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**119**		NA		NA
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**1226**		NA		NA
120																										
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
122																										

BZTO104(e)021978

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP
1																
2											Dup of RW1				Dup of RW1	
3			RW1		RW1		RW1		RW1		W		RW1		W	
4			0406074-10		0408025-01		0411066-11		0502087-04		0502087-05		P5F0668-05		P5F0668-06	
5			6/10/04		8/04/04		11/11/04		2/17/05		2/17/05		6/15/05		6/15/05	
87	**FIELD PARAMETERS**															
88	pH (avg)		6.35		6.04		6.44		6.42		6.42		6.36		6.36	
89	Temperature (° C) (avg)		16.3		17		16		14.6		14.6		16.3		16.2	
90	Conductivity (um/hos)		575		750		546		198		198		391		389	
91	Dissolved oxygen (mg/L) (avg)		2.42		2.29		1.53		0		0		2.46		2.45	
92																
93	**DIOXINS AND FURANS (ng/L)**															
94	**Method 8290**															
95	2,3,7,8-TCDF		0.001172	U	0.002108	U	0.000947	UJ	0.000455	U	NA		0.011	U	NA	
96	Total TCDF		**0.01243**		**0.016418**		**0.007227**		**0.001836**		NA		0.011	U	NA	
97	2,3,7,8-TCDD		0.001296	U	0.00189	U	0.000371	UJ	0.000208	U	NA		0.011	U	NA	
98	Total TCDD		0.001296	U	0.00189	U	**0.012783**		0.000208	U	NA		0.011	U	NA	
99	1,2,3,7,8-PeCDF		**0.002537**	J	0.005954	UJ	0.000584	U	0.00024	U	NA		0.055	U	NA	
100	2,3,4,7,8-PeCDF		0.000886	U	0.001846	U	0.000546	U	0.000231	U	NA		0.055	U	NA	
101	Total PeCDF		**0.008505**		**0.009166**		**0.013908**		**0.000754**		NA		0.055	U	NA	
102	1,2,3,7,8-PeCDD		0.001184	U	0.002557	U	0.000674	U	0.000549	U	NA		0.055	U	NA	
103	Total PeCDD		0.001184	U	0.002557	U	**0.018875**		0.000549	U	NA		0.055	U	NA	
104	1,2,3,4,7,8-HxCDF		0.000811	U	**0.005188**	J	0.00212	UJ	0.0015	UJ	NA		0.055	U	NA	
105	1,2,3,6,7,8-HxCDF		0.000804	U	0.005326	UJ	0.001554	UJ	0.000474	U	NA		0.055	U	NA	
106	2,3,4,6,7,8-HxCDF		0.000882	U	0.002058	U	**0.001781**	J	0.000506	U	NA		0.055	U	NA	
107	1,2,3,7,8,9-HxCDF		0.000982	U	0.002386	U	0.000289	U	0.000583	U	NA		0.055	U	NA	
108	Total HxCDF		0.000804	U	**0.018357**		**0.06799**		**0.01711**		NA		0.055	U	NA	
109	1,2,3,4,7,8-HxCDD		0.001465	U	0.002938	U	0.000437	U	0.000436	U	NA		0.055	U	NA	
110	1,2,3,6,7,8-HxCDD		0.001233	U	0.002518	U	**0.006886**	J	0.001897	UJ	NA		0.055	U	NA	
111	1,2,3,7,8,9-HxCDD		0.001245	U	0.002694	U	0.001768	UJ	0.000415	U	NA		0.055	U	NA	
112	Total HxCDD		0.001233	U	**0.011911**		**0.099208**		**0.019999**		NA		0.055	U	NA	
113	1,2,3,4,6,7,8-HpCDF		0.001827	U	0.005138	UJ	**0.044978**		**0.015291**	J	NA		0.055	U	NA	
114	1,2,3,4,7,8,9-HpCDF		0.002484	U	**0.011046**	J	**0.003391**	J	0.000732	U	NA		0.055	U	NA	
115	Total HpCDF		**0.001856**		**0.031417**		**0.19351**		**0.073902**		NA		0.055	U	NA	
116	1,2,3,4,6,7,8-HpCDD		**0.003583**	J	**0.031308**		**0.278831**	J	**0.115509**		NA		0.055	U	NA	
117	Total HpCDD		**0.006947**		**0.061732**		**0.493796**		**0.189293**		NA		0.055	U	NA	
118	OCDF		0.006121	UJ	**0.029711**	J	**0.237755**		**0.103526**		NA		0.11	U	NA	
119	OCDD		0.036956	U	**0.429978**		**2.58707**		**1.15**		NA		**0.33**		NA	
120																
121	**ETHANOL (mg/L)**		NA		NA		NA		NA		NA		NA		NA	
122																

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																	Dup of RW1						Dup of RW1					
3			RW1		RW1		RW1		RW1		RW1		RW1		RW1		W		RW1		RW1		W		RW1		RW1	
4			AH76F		AU36E		BC21U		BH96X		BR64O		CB68G		CK77B		CK77A		CT67K		DE87Q		DE87M		DM30G		DW37D	
5			5/20/99		9/21/99		12/7/99		2/16/00		5/25/00		8/30/00		11/7/00		11/7/00		2/15/01		6/6/01		6/6/01		8/13/01		11/28/01	
123		**PAHs (µg/L)**																										
124		**EPA Method SW8270 SIM**																										
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA
1																										
2		Dup of RW1						Dup of RW1										Dup of RW1								Dup of RW1
3		X		RW1		RW1		X		RW1		RW1		RW1		RW1		X		RW1		RW1		RW1		W
4		DW37A		ED34A		EM66B		EM66A		ER93J		EZ17H		FF65D		FL41L		FL41P		FU50C		FY72J		0402086-10		0402113-05
5		11/28/01		2/28/02		6/24/02		6/24/02		08/27/02		11/13/02		2/11/03		5/7/03		5/7/03		8/29/03		10/22/03		2/18/04		2/23/04
123	**PAHs (µg/L)**																									
124	**EPA Method SW8270 SIM**																									
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

BZTO104(e)021981

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP
1																
2											Dup of RW1				Dup of RW1	
3			RW1		RW1		RW1		RW1		W		RW1		W	
4			0406074-10		0408025-01		0411066-11		0502087-04		0502087-05		P5F0668-05		P5F0668-06	
5			6/10/04		8/04/04		11/11/04		2/17/05		2/17/05		6/15/05		6/15/05	
123	**PAHs (µg/L)**															
124	**EPA Method SW8270 SIM**															
125	Naphthalene		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene		NA		1	U	NA		NA		NA		NA		NA	
128	Acenaphthene		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene		NA		1	U	NA		NA		NA		NA		NA	
131	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			RW3		RW3	
4			BC30H		9912050-07A	
5			12/8/99		12/8/1999 (d)	
6						
7	1	**CHLORINATED PHENOLS (µg/L)**				
8	2	**EPA Method SW8040**				
9	3	Pentachlorophenol	**590**		NA	
10	4	2,4,6-Trichlorophenol	**0.19**	J1	NA	
11	5	2,3,6-Trichlorophenol	**0.13**	J1	NA	
12	6	2,4,5-Trichlorophenol	0.25	U	NA	
13	7	2,3,4-Trichlorophenol	0.25	U	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**110**		NA	
15	9	2,3,4,5-Tetrachlorophenol	**3.0**		NA	
16	10					
17	11	**SEMIVOLATILES (µg/L)**				
18	12	**EPA Method SW8270**				
19	13	Phenol	2.0	U	NA	
20	14	4-Methylphenol	1.0	U	NA	
21	15	Isophorone	1.0	U	NA	
22	16	2,4-Dimethylphenol	3.0	U	NA	
23	17	Benzoic Acid	10	U	NA	
24	18	Naphthalene	**14**		NA	
25	19	2-Methylnaphthalene	1.0	U	NA	
26	20	2,4,6-Trichlorophenol	5.0	U	NA	
27	21	2,4,5-Trichlorophenol	5.0	U	NA	
28	22	Acenaphthene	1.0	U	NA	
29	23	Dibenzofuran	1.0	U	NA	
30	24	Fluorene	1.0	U	NA	
31	25	Pentachlorophenol	**720**		NA	
32	26	bis(2-Ethylhexyl)phthalate	**1.4**		NA	
33	27					
34	28	**VOLATILES (µg/L)**				
35	29	**EPA Method SW8260**				
36	30	Acetone	5.0	U	NA	
37	31	Carbon Disulfide	1.0	U	NA	
38	32	2-Butanone	**9.1**		NA	
39	33	Benzene	1.0	U	NA	
40	34	Bromoform	1.0	U	NA	
41	35	Toluene	1.0	U	NA	
42	36	Ethylbenzene	**8.3**		NA	
43	37	Styrene	1.0	U	NA	
44	38	m,p-Xylene	**12**		NA	
45	39	o-Xylene	**34**		NA	
46	40	1,3,5-Trimethylbenzene	**57**		NA	
47	41	1,2,4-Trimethylbenzene	**160**		NA	
48	42	Isopropylbenzene	**10**		NA	
49	43	n-Propylbenzene	**19**		NA	
50	44	tert-Butylbenzene	1.0	U	NA	
51	45	sec-Butylbenzene	**9.2**		NA	
52	46	4-Isopropyltoluene	**9.8**		NA	
53	47	n-Butylbenzene	8.9	U	NA	
54	48	Naphthalene	**15**		NA	
55	48.5	Methyl tert-butyl ether	NA		NA	
56	49					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**				
58	51	**Method OR-DEQ**				
59	52	**TPH-Diesel**	**3.5**		NA	
60	53	**TPH-D Motor Oil**	0.50	U	NA	
61	54	**TPH-Gasoline**	**2.5**		NA	
62	55					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			RW3		RW3	
4			BC30H		9912050-07A	
5			12/8/99		12/8/1999 (d)	
63	56	**PRIORITY POLLUTANT**				
64	57	**METALS (mg/L)**				
65	58	Arsenic (7060)	**0.014**		NA	
66	59	Chromium (6010)	0.005	U	NA	
67	60	Copper (6010)	0.002	U	NA	
68	61	Lead (7421)	0.001	U	NA	
69	62	Nickel (6010)	0.01	U	NA	
70	63	Zinc (6010)	0.006	U	NA	
71	64					
72	65	**MAJOR IONS AND CONVENTIONALS**				
73	66	Calcium (mg/L) (6010)	NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**150**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	**3.9**		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA	
86	79					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			RW3		RW3	
4			BC30H		9912050-07A	
5			12/8/99		12/8/1999 (d)	
87	80	**FIELD PARAMETERS**				
88	81	pH (avg)	6.52		NM	
89	82	Temperature (° C) (avg)	12.9		NM	
90	83	Conductivity (um/hos)	231		NM	
91	84	Dissolved oxygen (mg/L) (avg)	1.76		NM	
92	85					
93	86	**DIOXINS AND FURANS (ng/L)**				
94	87	**Method 8290**				
95	88	2,3,7,8-TCDF	NA		NA	
96	89	Total TCDF	NA		NA	
97	90	2,3,7,8-TCDD	NA		NA	
98	91	Total TCDD	NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA	
101	94	Total PeCDF	NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA	
103	96	Total PeCDD	NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA	
108	101	Total HxCDF	NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA	
112	105	Total HxCDD	NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA	
115	108	Total HpCDF	NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA	
117	110	Total HpCDD	NA		NA	
118	111	OCDF	NA		NA	
119	112	OCDD	NA		NA	
120						
121		**ETHANOL (mg/L)**	5.0	U	10	U
122						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			RW3		RW3	
4			BC30H		9912050-07A	
5			12/8/99		12/8/1999 (d)	
123		**PAHs (µg/L)**				
124		**EPA Method SW8270 SIM**				
125		Naphthalene	NA		NA	
126		2-Methylnaphthalene	NA		NA	
127		Acenaphthylene	NA		NA	
128		Acenaphthene	NA		NA	
129		Fluorene	NA		NA	
130		Anthracene	NA		NA	
131		Dibenzofuran	NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1																							
2									Dup of LW2S														
3			LW2S		LW2S		LW2S		LW2D		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S
4			S177G		T176C		U235M		U235E		V224N		W391A		Y336G		Z225A		Z960Q		AH27F		AU22G
5			4/2/97		7/15/97		10/22/97		10/22/97		1/29/98		5/19/98		8/19/98		11/13/98		2/18/99		5/17/99		9/20/99
6																							
7	1	**CHLORINATED PHENOLS (µg/L)**																					
8	2	**EPA Method SW8040**																					
9	3	Pentachlorophenol	**2600**		**2900**		**4400**		**4800**		**7600**		**8500**		**5000**		**3800**		**6000**		**560**		**1500**
10	4	2,4,6-Trichlorophenol	**0.46**		0.43	U	0.34	U	0.38	U	**0.56**		**0.57**		**0.34**		**0.34**		0.46		0.25	U	**0.16**
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
12	6	2,4,5-Trichlorophenol	0.86	U	0.25	U	0.49	U	0.51	U	0.25	U	**0.57**		**0.61**		0.25	U	0.60	U	0.25	U	0.57
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.13**	J1	**0.18**	J1	0.25	U	0.25	U	0.25	U	0.25
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**150**		**150**		**190**		**190**		**290**		**370**		**180**		**130**		**300**		**20**		**47**
15	9	2,3,4,5-Tetrachlorophenol	**2.5**		**3.4**		**4.8**		**4.7**		**4.4**		**6.6**		**8.6**		**2.8**		**3.2**		**1.1**		**2.2**
16	10																						
17	11	**SEMIVOLATILES (µg/L)**																					
18	12	**EPA Method SW8270**																					
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10
24	18	Naphthalene	**5.5**		**2.3**		**20**		**17**		**13**		**10**	J2	**13**		**14**		**8.4**		1.0	U	**4.3**
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
31	25	Pentachlorophenol	**3900**		**3000**		**6000**		**7300**		**7900**		**7300**		**4200**		**4100**		**5400**		**500**		**1600**
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	**1.9**		1.0	U	1.0	U	**12**		1.0	U	1.0	U	**1.6**		**1.3**		1.0
33	27																						
34	28	**VOLATILES (µg/L)**																					
35	29	**EPA Method SW8260**																					
36	30	Acetone	10	U	5.0	U	6.9		45	U	5.0	U	**7.4**		5.0	U	**35**		15	U	5.0	U	5.0
37	31	Carbon Disulfide	2.0	U	1.0	U	1.0	U	9.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0
38	32	2-Butanone	10	U	5.0	U	5.0	U	45	U	5.0	U	5.0	U	5.0	U	**7.4**		15	U	**9.4**		**28**
39	33	Benzene	2.0	U	1.0	U	1.0	U	9.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0
40	34	Bromoform	2.0	U	1.0	U	1.0	U	9.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0
41	35	Toluene	2.0	U	**2.0**		**1.1**		9.0	U	1.0	U	1.0	U	**1.4**		**1.3**		3.0	U	1.0	U	1.0
42	36	Ethylbenzene	**5.7**		**11**		**32**		**32**		**17**		**5.1**		**9.7**		**12**		**11**		**2.0**		**6.3**
43	37	Styrene	2.0	U	1.0	U	1.0	U	9.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0
44	38	m,p-Xylene	**13**		**16**		**37**		**36**		**32**		**12**		**17**		**24**		**18**		**2.6**		**11**
45	39	o-Xylene	**23**		**35**		**91**		**92**		**63**		**23**		**39**		**61**		**42**		**6.9**		**29**
46	40	1,3,5-Trimethylbenzene	**53**		**49**		**130**		**110**		**80**		**34**		**54**		**62**		**93**		**8.7**		**45**
47	41	1,2,4-Trimethylbenzene	**210**		**200**		**640**	J2	**790**	J2	**490**		**160**		**180**		**280**		**330**		**44**		**120**
48	42	Isopropylbenzene	**7.5**		**14**		**62**	J2	**49**	J2	**19**		**6.4**		**10**		**12**		**16**		**2.2**		**7.0**
49	43	n-Propylbenzene	**16**		**26**		**110**		**90**		**38**		**15**		**21**		**22**		**35**		**4.8**		**15**
50	44	tert-Butylbenzene	2.0	U	**1.8**	MJ	**5.7**		9.0	U	**2.7**		1.0	U	1.0	U	1.0	U	3.0		1.0	U	1.0
51	45	sec-Butylbenzene	**7.6**		**11**		**40**	J2	**27**	J2	**22**		**8.2**		**12**	J2	**12**		**15**		**2.9**		**8.0**
52	46	4-Isopropyltoluene	**9.6**		**9.6**		**31**	J2	**22**	J2	**21**		**9.1**		**12**		**12**		**12**		**2.0**		**8.8**
53	47	n-Butylbenzene	**8.5**		**8.4**	M	**29**	J2	**18**	J2	**16**		**7.7**		**10**		**10**		**12**		**1.9**		**7.0**
54	48	Naphthalene	**12.0**		**14**		**75**	J2	**58**	J2	**31**		**14**		**19**		**18**		**22**		5.0	U	**16**
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																						
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																					
58	51	**Method OR-DEQ**																					
59	52	**TPH-Diesel**	**4.4**		**5.0**		**11**		**11**		**10**		**5.6**		**5.2**		**5.0**		**6.2**		**1.1**		**2.3**
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
3			LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S	
4			BC27H		9912050-04A		BH75F		BR64C		CB49I		CK77I		CT55G		DE68C		DM52I		DW48K		ED23E		EM85F	
5			12/8/99		12/8/1999 (d)		2/15/00		5/24/00		8/29/00		11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/26/02		6/26/02	
7	**CHLORINATED PHENOLS (µg/L)**																									
8	**EPA Method SW8040**																									
9	Pentachlorophenol		**1300**		NA		**2100**		**1000**		**720**		**1100**		**650**	J	NA		NA		NA		NA		NA	
10	2,4,6-Trichlorophenol	J1	**0.12**	J1	NA		**0.42**		0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	U	0.33	U	NA		0.37	U	0.25	U	0.74	U	0.33	U	NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol		**36**		NA		**84**		**28**		**28**		**47**		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol		**1.6**		NA		**2.2**		**2.1**		**1.0**		**1.5**		NA		NA		NA		NA		NA		NA	
16																										
17	**SEMIVOLATILES (µg/L)**																									
18	**EPA Method SW8270**																									
19	Phenol	U	2.0	U	NA		2.0	U	2.0	U	2.0	U	**2.4**	J2	2.0	U	2.0	U	2.0	U	**2.8**		2.0	U	2.0	U
20	4-Methylphenol	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**3.0**		1.0	U	1.0	U
21	Isophorone	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	2,4-Dimethylphenol	U	3.0	U	NA		3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	Benzoic Acid	U	10	U	NA		10	U	10	U	10	U	10	U	10	U	10	U	10	U	30	U	50	U	50	U
24	Naphthalene		**36**		NA		**8.2**		**5.2**		**1.4**		**9.2**		**12**		**21**		**6.8**		**14**		1.0	U	**6.2**	
25	2-Methylnaphthalene	U	**1.2**		NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
26	2,4,6-Trichlorophenol	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	2,4,5-Trichlorophenol	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	Acenaphthene	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	Dibenzofuran	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	Fluorene	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	Pentachlorophenol		**1800**		NA		**2100**		**1300**	J2	**200**		**1500**		**1200**	J	**1300**		**700**		**8000**		**320**		**950**	
32	bis(2-Ethylhexyl)phthalate	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	**1.4**		1.0	U	1.0	U	**1.5**		4.0	U	4.0	U
33																										
34	**VOLATILES (µg/L)**																									
35	**EPA Method SW8260**																									
36	Acetone	U	**29**		NA		5.0	U	5.0	U	5.0	U	**27**			R	**33**		**20**		**39**		5.0	U	**8.2**	
37	Carbon Disulfide	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	3.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	2-Butanone		**6.7**	M	NA		**32**		**22**		5.0	U	15	U	10	U	34	U	**32**		5.0	U	**5.2**		**13**	
39	Benzene	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	3.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
40	Bromoform	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	3.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	Toluene	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	3.0	U	2.0	U	**1.1**		1.0	U	1.0	U	1.0	U	1.0	U
42	Ethylbenzene		**22**		NA		**11**		**5.3**		**1.6**		**11**		**9.7**		**26**		1.0	U	**15**		1.0	U	**4.7**	
43	Styrene	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	3.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	m,p-Xylene		**18**		NA		**18**		**9.9**		**3.0**		**15**		**18**		**36**		**14**		**35**		**1.2**		**7.3**	
45	o-Xylene		**97**		NA		**45**		**25**		**8.1**		**36**		**49**		**87**		**36**		**84**		**3.0**		**18**	
46	1,3,5-Trimethylbenzene		**80**		NA		**69**		**38**		**16**		**47**		**61**		**94**		**34**		**130**		**5.7**		**24**	
47	1,2,4-Trimethylbenzene		**540**		NA		**330**		**160**		**66**		**250**		**320**		**490**		**200**		**420**		**25**		**110**	
48	Isopropylbenzene		**38**		NA		**23**		**7.3**		**2.2**		**9.1**		**19**		**32**		**13**		**16**		1.0	U	**6.8**	
49	n-Propylbenzene		**60**		NA		**48**		**16**		**5.8**		**20**		**36**		**67**		**28**		**32**		**2.0**		**14**	
50	tert-Butylbenzene	U	1.0	U	NA		3.1	U	**1.2**		1.0	U	3.0	U	**3.2**		1.0	U	1.0	U	**68**		1.0	U	1.0	U
51	sec-Butylbenzene		**27**		NA		**24**		**8.2**		**3.9**		**9.3**		**20**		**30**		**15**		1.0	U	**1.4**		**7.5**	
52	4-Isopropyltoluene		**20**		NA		**15**		**7.4**		**3.8**		**8.5**		**17**		**25**		**13**		**22**		**1.5**		**6.6**	
53	n-Butylbenzene		15	U	NA		17	U	**6.5**	M	**3.7**	M	**9.5**		**15**	M	**21**		**12**	M	**18**		**1.2**		5.7	U
54	Naphthalene		**54**		NA		**26**		**10**		5.0	U	**27**		**23**		**60**		**28**		**54**		5.0	U	**11**	
55	Methyl tert-butyl ether		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																										
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																									
58	**Method OR-DEQ**																									
59	**TPH-Diesel**		**9.4**		NA		**5.5**		**3.5**		**1.8**		**4.0**		**9.1**		**9.4**		**5.4**		10		**1.5**		**2.8**	
60	**TPH-D Motor Oil**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																										

BZTO104(e)021988

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1																							
2									Dup of LW2S														
3			LW2S		LW2S		LW2S		LW2D		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S
4			S177G		T176C		U235M		U235E		V224N		W391A		Y336G		Z225A		Z960Q		AH27F		AU22G
5			4/2/97		7/15/97		10/22/97		10/22/97		1/29/98		5/19/98		8/19/98		11/13/98		2/18/99		5/17/99		9/20/99
63	56	**PRIORITY POLLUTANT**																					
64	57	**METALS (mg/L)**																					
65	58	Arsenic (7060)	**0.008**		**0.012**		0.05	U	0.05	U	0.05	U	**0.011**		**0.011**		**0.017**		**0.007**		**0.005**		**0.008**
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.006**		0.005	U	0.005
67	60	Copper (6010)	0.002	U	**0.002**		0.002	U	0.002	U	0.002	U	0.002	U	**0.002**		0.002	U	**0.007**		0.002	U	0.002
68	61	Lead (7421)	0.001	U	**0.001**		0.02	U	0.02	U	0.02	U	0.001	U	**0.007**		0.001	U	**0.004**		0.001	U	0.001
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
70	63	Zinc (6010)	**0.004**		**0.006**	J2	**0.007**		**0.004**		**0.004**		**0.004**	J2	**0.098**		**0.006**		**0.026**		0.005	U	**0.008**
71	64																						
72	65	**MAJOR IONS AND CONVENTIONALS**																					
73	66	Calcium (mg/L) (6010)	NA		NA		**18.4**		**18.2**		**9.13**		NA		NA		NA		**7.23**		NA		NA
74	67	Magnesium (mg/L) (6010)	NA		NA		**5.15**		**5.12**		**2.30**		NA		NA		NA		**2.52**		NA		NA
75	68	Potassium (mg/L) (6010)	NA		NA		**2.8**		**2.8**		**1.6**		NA		NA		NA		**1.9**		NA		NA
76	69	Sodium (mg/L) (6010)	NA		NA		**4.77**		**4.74**		**2.54**		NA		NA		NA		**3.69**		NA		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		**62**		**61**		**52**		NA		NA		NA		**25**		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		**62**		**61**		**52**		NA		NA		NA		**25**		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**170**	J2	**130**		**140**		**66**		160		140		220		**76**		**160**		**160**
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		**15**		**15**		**1.9**		3.9		4.6		26		**1.9**		**1.8**		**3.1**
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		**0.023**		**0.017**		0.010	UJ	NA		NA		NA		**0.040**		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		0.010	U	0.010	U	0.010	UJ	NA		NA		NA		**0.016**		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		**0.023**		**0.017**		0.010	UJ	NA		NA		NA		**0.056**		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		**5.3**		**5.9**		**6.5**		NA		NA		NA		**9.4**		NA		NA
86	79																						

BZTO104(e)021989

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1																										
2																										
3			LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S	
4			BC27H		9912050-04A		BH75F		BR64C		CB49I		CK77I		CT55G		DE68C		DM52I		DW48K		ED23E		EM85F	
5			12/8/99		12/8/1999 (d)		2/15/00		5/24/00		8/29/00		11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/26/02		6/26/02	
63	**PRIORITY POLLUTANT**																									
64	**METALS (mg/L)**																									
65	Arsenic (7060)		**0.011**		NA		**0.011**		**0.011**		**0.011**		**0.017**		**0.013**		**0.018**		**0.019**		**0.013**		**0.015**		**0.014**	
66	Chromium (6010)	U	0.005	U	NA		0.005	U	0.005	U	**0.005**		0.005	U	0.005	U	0.05	U	0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	U	**0.002**		NA		**0.003**		**0.003**		**0.007**		**0.005**	J2	0.002	U	0.002	U	**0.004**		0.004	U	**0.003**		0.002	U
68	Lead (7421)	U	0.001	U	NA		0.001	U	0.001	U	**0.003**		**0.003**		0.001	U	0.001	U	**0.001**		**0.004**		0.001	U	0.001	U
69	Nickel (6010)	U	0.01	U	NA		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	Zinc (6010)		0.009	U	NA		**0.010**		**0.006**		**0.016**		**0.013**		**0.011**		0.006	U	**0.012**		**0.012**		**0.006**		**0.012**	
71																										
72	**MAJOR IONS AND CONVENTIONALS**																									
73	Calcium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		**35.6**		**42.2**		**24.3**		**23.3**		**12.3**		NA	
74	Magnesium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		**9.27**		**10.1**		**7.63**		**7.65**		**3.88**		NA	
75	Potassium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		**2.7**		**3.4**		**3.1**		**2.9**		**2.0**		NA	
76	Sodium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		**5.10**		**5.23**		**5.84**		**5.14**		**3.46**		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		**140**		NA		NA		NA		**67**		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		1.0	U	NA		NA		NA		1.0	U	NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		**140**		NA		NA		NA		**67**		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**170**		NA		**84**		**140**		**180**		**220**		**210**		**300**		**210**		**190**		**120**		**110**	
81	Chloride (mg/L) (EPA 325.2)		**7.5**		NA		**1.8**		**2.5**		**2.8**		**26**		**15**		**38**		**26**		**9.7**		**4.1**		**3.3**	
82	N-Nitrate (mg-N/L) (Calculated)		NA		NA		NA		NA		NA		NA		**0.010**		NA		NA		NA		0.010	U	NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**0.026**		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		NA		NA		NA		NA		NA		**0.010**		NA		NA		NA		**0.033**	J	NA	
85	Sulfate (mg/L) (EPA 375.2)		NA		NA		NA		NA		NA		NA		**5.7**		NA		NA		NA		**4.3**		NA	
86																										

BZTO104(e)021990

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1																							
2									Dup of LW2S														
3			LW2S		LW2S		LW2S		LW2D		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S
4			S177G		T176C		U235M		U235E		V224N		W391A		Y336G		Z225A		Z960Q		AH27F		AU22G
5			4/2/97		7/15/97		10/22/97		10/22/97		1/29/98		5/19/98		8/19/98		11/13/98		2/18/99		5/17/99		9/20/99
87	80	**FIELD PARAMETERS**																					
88	81	pH (avg)	6.69		6.62		6.77		6.78		6.83		6.19		6.18		5.9300		6.21		5.62		6.06
89	82	Temperature (° C) (avg)	10.0		15		15.7		15.7		10.8		12.6		14.4		14.7000		8.6		11.2		16.6
90	83	Conductivity (um/hos)	291		258		168		167		108		244		299		148.0000		57		221		221
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		2.71		1.43		1.31		1.47		3.08		1.58
92	85																						
93	86	**DIOXINS AND FURANS (ng/L)**																					
94	87	**Method 8290**																					
95	88	2,3,7,8-TCDF	**0.0040**		0.0045	U	**0.036**		NA		**0.0052**	(c)	**0.0045**	(c)	**0.012**	(c)	**0.0080**	(c)	**0.0079**	(c)	**0.0045**	(c)	**0.0060**
96	89	Total TCDF	**0.0180**		0.0016-0.0048	U	**0.310**		NA		**0.0190**		**0.0280**		**0.060**		**0.0370**		**0.0079**		**0.0230**		**0.0510**
97	90	2,3,7,8-TCDD	0.0042	U	0.0034	U	0.049	U	NA		0.0051	U	0.0025	U	0.0062	U	0.0044	U	**0.0280**		0.0035	U	0.0054
98	91	Total TCDD	0.0014-0.0042	U	0.0011-0.0036	U	**0.940**		NA		**0.0044**		0.0025	U	0.0062	U	0.0044	U	**0.3000**		**0.0025**		0.0054
99	92	1,2,3,7,8-PeCDF	0.0340	U	0.2600	U	0.075	U	NA		**0.0077**		**0.0150**		2.0000	U (b)	**0.0200**		3.00	U,E	**0.0130**		0.1800
100	93	2,3,4,7,8-PeCDF	**0.0120**		0.0190	U	**0.110**		NA		0.0160	U	**0.0110**		0.1200	U (b)	**0.0430**		**0.2600**		**0.0240**		**0.1100**
101	94	Total PeCDF	**0.2400**		**0.120**		**1.300**		NA		**0.2200**		**0.1900**		**0.470**		**0.3000**		**0.4200**		**0.1600**		**0.6700**
102	95	1,2,3,7,8-PeCDD	0.0120	U	0.0072	U	**0.360**		NA		0.0160	U	**0.0049**		**0.014**		**0.0110**		**0.2800**		0.0045	U	**0.0130**
103	96	Total PeCDD	0.0032-0.0077	U	0.0025-0.014	U	**3.000**		NA		0.0160	U	**0.0049**		**0.014**		**0.0110**		**1.5000**		**0.0019**		**0.0200**
104	97	1,2,3,4,7,8-HxCDF	**0.0590**		**0.019**		1.900	U	NA		0.1300	UE	0.1100	U	**0.180**		0.8400	U	0.50	U,E	**0.0280**		**0.1800**
105	98	1,2,3,6,7,8-HxCDF	**0.0300**		0.0160	U	**0.260**		NA		**0.0470**		**0.0260**		**0.120**		**0.0660**		**0.0870**		0.1900	U,E	**0.1200**
106	99	2,3,4,6,7,8-HxCDF	**0.0580**		**0.033**		**0.620**		NA		**0.0740**		**0.0610**	J2	**0.220**		**0.0840**		**0.5700**		**0.0430**		**0.1600**
107	100	1,2,3,7,8,9-HxCDF	**0.0280**		**0.013**		**0.260**		NA		**0.0340**		0.0220	U	**0.078**		**0.0380**		0.53	U,E	**0.0220**		**0.0950**
108	101	Total HxCDF	**0.8800**		**0.370**		**14.000**		NA		**0.9700**		**2.0000**	J2	**2.700**		**1.6000**		**14.0000**		**1.5000**		**14.0000**
109	102	1,2,3,4,7,8-HxCDD	**0.0120**		0.0110	U	**0.630**		NA		**0.0180**		**0.0170**		**0.045**		**0.0310**		**0.2600**		**0.0110**		**0.0620**
110	103	1,2,3,6,7,8-HxCDD	**0.3400**		**0.150**		**3.400**		NA		**0.4000**		**0.4000**	J2	**1.200**		**0.5900**		**3.0000**		**0.1800**		**1.2000**
111	104	1,2,3,7,8,9-HxCDD	**0.0280**		**0.012**		**0.960**		NA		**0.0410**		**0.0400**		**0.110**		**0.0540**		**0.4900**		**0.0170**		**0.1200**
112	105	Total HxCDD	**0.7900**		**0.350**		**14.000**		NA		**0.9500**		**1.0000**	J2	**2.800**		**1.5000**		**10.0000**		**0.4200**		**2.8000**
113	106	1,2,3,4,6,7,8-HpCDF	**1.5000**		**0.600**		**9.700**		NA		**1.5000**		**1.4000**		**4.500**		**2.6000**		**11.0000**		**0.4800**		**4.8000**
114	107	1,2,3,4,7,8,9-HpCDF	**0.0980**		**0.039**		**0.990**		NA		**0.1000**		**0.0990**		**0.340**		**0.1800**		**0.8300**		**0.0440**		**0.3300**
115	108	Total HpCDF	**6.7000**		**0.640**		**43.000**		NA		**4.8000**		**6.3000**		**4.800**		**13.0000**		**65.0000**		**2.8000**		**5.1000**
116	109	1,2,3,4,6,7,8-HpCDD	**10.0000**		**3.800**		**54.000**		NA		**9.9000**		**8.4000**		**28.000**	J2	**17.0000**		**56.0000**		**4.0000**		**30.0000**
117	110	Total HpCDD	**15.0000**		**5.700**		**82.000**		NA		**15.0000**		**13.0000**		**39.000**	J2	**26.0000**		**84.0000**		**5.6000**		**45.0000**
118	111	OCDF	**8.8000**		**2.600**		**40.000**		NA		**7.0000**		**6.9000**		**20.000**		**12.0000**		**43.0000**		**3.1000**		**29.0000**
119	112	OCDD	**76.0000**		**25.000**		**350.000**		NA		**65.0000**		**58.0000**	J2	**190.000**	J2	**110.0000**		**320.0000**		**25.0000**		**210.0000**
120																							
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
122																							

BZTO104(e)021991

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1																										
2																										
3			LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S	
4			BC27H		9912050-04A		BH75F		BR64C		CB49I		CK77I		CT55G		DE68C		DM52I		DW48K		ED23E		EM85F	
5			12/8/99		12/8/1999 (d)		2/15/00		5/24/00		8/29/00		11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/26/02		6/26/02	
87	**FIELD PARAMETERS**																									
88	pH (avg)		6.25		NM		6.42		6.23		6.59		5.58		6.01		6.33		6.54		6.22		4.96		6.39	
89	Temperature (° C) (avg)		12.6		NM		10.8		12.8		15.5		15.3		11.3		12.7		15.5		14.5		11.1		15.2	
90	Conductivity (um/hos)		267		NM		91		267		268		302		305		427		299		321		124		150	
91	Dissolved oxygen (mg/L) (avg)		2.34		NM		0.95		1.22		1.73		0.98		0.59		1.32		3.04		3.76		7.98		3.67	
92																										
93	**DIOXINS AND FURANS (ng/L)**																									
94	**Method 8290**																									
95	2,3,7,8-TCDF	(c)	0.00330	U	NA		0.086	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF		**0.0280**		NA		**0.0540**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	U	0.00079	U	NA		0.0047	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	U	0.00079	U	NA		0.0047	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	UE	0.00170	U	NA		2.400	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF		**0.0160**	J1	NA		**0.0260**	J1	NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF		**0.1000**		NA		**0.1200**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD		**0.0049**	J1	NA		**0.0068**	J1	NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD		**0.0074**	J1	NA		**0.0110**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF		**0.0690**		NA		0.860	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF		0.720	U	NA		0.0460	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF		**0.0330**	J1	NA		**0.0420**	J1	NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF		0.011	U	NA		0.0100	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF		**2.1000**		NA		**2.9000**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD		0.020	U	NA		0.012	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD		**0.4800**		NA		**0.4400**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD		**0.0410**	J1	NA		**0.0290**	J1	NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD		**1.1000**		NA		**1.2000**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		**2.2000**		NA		**1.7000**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		**0.1200**		NA		**0.1200**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF		**10.0000**		NA		**9.2000**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		**14.0000**		NA		**11.0000**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD		**20.0000**		NA		**17.0000**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF		**11.0000**		NA		**9.0000**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD		**100.0000**	N2	NA		**76.0000**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																										
121	**ETHANOL (mg/L)**		NA		10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																										

BZTO104(e)021992

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1																							
2									Dup of LW2S														
3			LW2S		LW2S		LW2S		LW2D		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S
4			S177G		T176C		U235M		U235E		V224N		W391A		Y336G		Z225A		Z960Q		AH27F		AU22G
5			4/2/97		7/15/97		10/22/97		10/22/97		1/29/98		5/19/98		8/19/98		11/13/98		2/18/99		5/17/99		9/20/99
123		**PAHs (µg/L)**																					
124		**EPA Method SW8270 SIM**																					
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		**8.2**		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		**0.41**		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		**0.11**	M	NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	B	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1																										
2																										
3			LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S	
4			BC27H		9912050-04A		BH75F		BR64C		CB49I		CK77I		CT55G		DE68C		DM52I		DW48K		ED23E		EM85F	
5			12/8/99		12/8/1999 (d)		2/15/00		5/24/00		8/29/00		11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/26/02		6/26/02	
123	**PAHs (µg/L)**																									
124	**EPA Method SW8270 SIM**																									
125	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S	
4			S167C		T160D		U235C		V208B		W371C		Z960T		AH76M		BH75A		CT37J		ED16C		EM75C		FF48D	
5			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
6																										
7	1	**CHLORINATED PHENOLS (µg/L)**																								
8	2	**EPA Method SW8040**																								
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	0.25	U	**0.86**		0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
16	10																									
17	11	**SEMIVOLATILES (µg/L)**																								
18	12	**EPA Method SW8270**																								
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	NA		2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	NA		2	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	NA		3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	NA		3	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	NA		10	U	10	U	10	U	10	U	50	U	NA		50	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	NA		1	U
33	27																									
34	28	**VOLATILES (µg/L)**																								
35	29	**EPA Method SW8260**																								
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	14	U	5.0	U	NA		5	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	**5.7**		NA		5	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																									
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	51	**Method OR-DEQ**																								
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																									

BZTO104(e)021995

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S	
4			S167C		T160D		U235C		V208B		W371C		Z960T		AH76M		BH75A		CT37J		ED16C		EM75C		FF48D	
5			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
63	56	**PRIORITY POLLUTANT**																								
64	57	**METALS (mg/L)**																								
65	58	Arsenic (7060)	**0.001**		**0.002**		0.05	U	0.05	U	**0.002**		0.001	U	0.001	U	0.001	U	**0.002**		**0.005**		NA		0.001	U
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	NA		0.005	U
67	60	Copper (6010)	**0.002**		**0.002**		0.002	U	**0.003**		**0.004**		**0.002**		**0.003**		**0.003**		0.002	U	**0.008**		NA		**0.005**	
68	61	Lead (7421)	**0.001**		**0.002**		0.02	U	0.02	U	**0.002**		0.001	U	**0.001**		**0.001**		0.001	U	**0.002**		NA		**0.001**	
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	NA		0.01	U
70	63	Zinc (6010)	**0.006**		**0.012**		**0.004**		**0.007**		**0.012**	J2	**0.017**	J	**0.010**		**0.006**		0.006	U	**0.017**		NA		**0.011**	
71	64																									
72	65	**MAJOR IONS AND CONVENTIONALS**																								
73	66	Calcium (mg/L) (6010)	**12.5**		**12.8**		**12.0**		**5.13**		NA		NA		NA		NA		NA		**7.22**		NA		**2.58**	
74	67	Magnesium (mg/L) (6010)	**3.83**		**3.71**		**2.94**		**1.64**		NA		NA		NA		NA		NA		**2.44**		NA		**1.03**	
75	68	Potassium (mg/L) (6010)	**2.2**		**3.0**		**3.1**		**1.4**		NA		NA		NA		NA		NA		**1.7**		NA		**0.8**	
76	69	Sodium (mg/L) (6010)	**7.77**		**4.6**		**4.80**		**4.86**		NA		NA		NA		NA		NA		**7.44**		NA		**7**	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**46**		**39**		**34**		**28**		NA		NA		NA		NA		NA		**38**		NA		**15**	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		1.0	U	NA		1	U
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**46**		**39**		**34**		**28**		NA		NA		NA		NA		NA		**38**		NA		**15**	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**110**		**94**		**61**	J2	NA		NA		**75**		**67**		**100**		**72**		NA		**84**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.1**	J	**2.1**		**1.2**		**1.0**		NA		NA		**1.7**		**1.6**		**1.8**		**1.0**		NA		**1.6**	
82	75	N-Nitrate (mg-N/L) (Calculated)	**1.3**	J	**2.2**		**1.8**		**0.17**		NA		NA		NA		NA		NA		**0.098**		NA		**0.91**	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	**0.016**	J	**0.021**		0.010	U	**0.013**		NA		NA		NA		NA		NA		0.010	U	NA		**0.017**	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**1.3**	J	**2.2**		**1.8**		**0.18**		NA		NA		NA		NA		NA		**0.098**		NA		**0.93**	
85	78	Sulfate (mg/L) (EPA 375.2)	**19**	J	**14**		**14**		**3.4**		NA		NA		NA		NA		NA		**5.2**		NA		**6.2**	
86	79																									

BZTO104(e)021996

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

			LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S	
			S167C		T160D		U235C		V208B		W371C		Z960T		AH76M		BH75A		CT37J		ED16C		EM75C		FF48D	
			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
87	80	**FIELD PARAMETERS**																								
88	81	pH (avg)	6.75		6.44		6.52		6.89		5.89		6.61		5.91		6.69		6.36		6.00		5.43		6.64	
89	82	Temperature (° C) (avg)	10.5		18.4		16.1		9.5		11.9		8.6		13.1		9.8		10.6		9.0		13.6		10.8	
90	83	Conductivity (um/hos)	138		147		115		0.63		93		78		64		66		133		73		174		41	
91	84	Dissolved oxygen (mg/L) (avg)									4.88		5.21		3.12		4.83		3.47		5.49		4.62		4.71	
92	85																									
93	86	**DIOXINS AND FURANS (ng/L)**																								
94	87	**Method 8290**																								
95	88	2,3,7,8-TCDF	**0.0088**		0.0025	U	0.0066	U	0.0017	U	NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	0.0044-0.016	U	0.0011-0.0037	U	0.0025-0.0081	U	0.0017	U	NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	0.0160	U	0.0023	U	0.0074	U	0.0023	U	NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	0.0032-0.025	U	0.0012-0.0052	U	0.0018-0.0099	U	**0.0035**		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	0.0083	U	0.0058	U	**0.0100**		0.0015	U	NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	0.0120	U	0.0021	U	0.0062	U	0.0017	U	NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	0.0026-0.018	U	0.0015-0.0064	U	**0.0960**		0.0016	U	NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	0.0260	U	0.0100	U	0.0120	U	0.0030	U	NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	0.010-0.034	U	0.0020-0.0100	U	0.0056-0.013	U	0.0030	U	NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	0.0044	U	0.0017	U	0.0083	U	0.0018	U	NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	0.0057	U	0.0034	U	0.0049	U	0.0021	U	NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	0.0080	U	0.0076	U	0.0064	U	0.0041	U	NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	0.0160	U	0.0045	U	0.0068	U	0.0020	U	NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	0.0048-0.017	U	0.0017-0.0076	U	0.0270	U	0.0041	U	NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	0.0250	U	0.0078	U	0.0080	U	0.0025	U	NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	0.0180	U	0.0072	U	**0.0089**		0.0041	U	NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	0.0160	U	0.0032	U	0.0120	U	0.0030	U	NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	0.011-0.031	U	0.0025-0.0078	U	**0.0230**		0.0032	U	NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	0.0160	U	0.0046	U	**0.0240**		0.0130	U	NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	0.0280	U	0.0057	U	0.0039	U	0.0035	U	NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	0.012-0.028	U	0.0014-0.0058	U	0.0280	U	0.0083	U	NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	0.0230	U	0.0068	U	**0.3000**		0.0064	U	NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	0.013-0.038	U	0.0021-0.0080	U	**0.4400**		0.0064	U	NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	0.0520	U	0.0079	U	**0.1800**		0.0041	U	NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	0.0500	U	0.0300	U	**1.2000**		0.0210	U	NA		NA		NA		NA		NA		NA		NA		NA	
120																										
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																										

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S	
4			S167C		T160D		U235C		V208B		W371C		Z960T		AH76M		BH75A		CT37J		ED16C		EM75C		FF48D	
5			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
123		**PAHs (µg/L)**																								
124		**EPA Method SW8270 SIM**																								
125		Naphthalene	NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S	
4			S167D		T160E		U235B		V211B		W371B		Z960S		AH76L		BH75B		CT37H		ED16B		EM75B		FF48C	
5			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
6																										
7	1	**CHLORINATED PHENOLS (µg/L)**																								
8	2	**EPA Method SW8040**																								
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		**0.66**		**0.31**		0.25	U	**0.28**		0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
16	10																									
17	11	**SEMIVOLATILES (µg/L)**																								
18	12	**EPA Method SW8270**																								
19	13	Phenol	2.0	U	2.0	U	2.0	UJ	2.0	U	NA		NA		2.0	U	2.0	U	2.0	U	2.0	U	NA		2	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	UJ	1.0	U	NA		NA		1.0	U	1.0	U	**3.5**		1.0	U	NA		**6.8**	
21	15	Isophorone	1.0	U	1.0	U	1.0	UJ	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	UJ	3.0	U	NA		NA		3.0	U	3.0	U	3.0	U	3.0	U	NA		3	U
23	17	Benzoic Acid	10	U	10	U	10	UJ	10	U	NA		NA		10	U	10	U	10	U	50	U	NA		50	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	UJ	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	UJ	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	UJ	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	UJ	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	UJ	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	UJ	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
30	24	Fluorene	1.0	U	1.0	U	1.0	UJ	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	UJ	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	1.3	UJ	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	4.0	U	NA		1	U
33	27																									
34	28	**VOLATILES (µg/L)**																								
35	29	**EPA Method SW8260**																								
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	160	U	**7.9**		NA		**15**	
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																									
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	51	**Method OR-DEQ**																								
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																									

BZTO104(e)021999

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S	
4			S167D		T160E		U235B		V211B		W371B		Z960S		AH76L		BH75B		CT37H		ED16B		EM75B		FF48C	
5			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
63	56	**PRIORITY POLLUTANT**																								
64	57	**METALS (mg/L)**																								
65	58	Arsenic (7060)	0.001	U	**0.002**		0.05	U	0.05	U	**0.001**		0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	NA		0.001	U
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	NA		0.005	U
67	60	Copper (6010)	**0.003**		**0.002**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.002**		0.002	U	0.002	U	NA		**0.005**	
68	61	Lead (7421)	0.001	U	**0.002**		0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	NA		0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	NA		0.01	U
70	63	Zinc (6010)	**0.008**		**0.009**		0.004	U	0.004	U	**0.014**	J2	**0.008**	J	0.004	U	0.006	U	0.006	U	0.006	U	NA		0.006	U
71	64																									
72	65	**MAJOR IONS AND CONVENTIONALS**																								
73	66	Calcium (mg/L) (6010)	**14.6**		**14.1**		**12.6**		**18.5**		NA		NA		NA		NA		NA		**8.93**		NA		**9.42**	
74	67	Magnesium (mg/L) (6010)	**5.39**		**5.64**		**4.87**		**6.76**		NA		NA		NA		NA		NA		**3.65**		NA		**3.85**	
75	68	Potassium (mg/L) (6010)	**2.4**		**2.6**		**2.5**		**2.0**		NA		NA		NA		NA		NA		**1.6**		NA		**1.5**	
76	69	Sodium (mg/L) (6010)	**6.16**		**5.94**		**6.18**		**7.92**		NA		NA		NA		NA		NA		**5.36**		NA		**5.2**	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**62**		**67**		**61**		**110**		NA		NA		NA		NA		NA		**46**		NA		**47**	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		1.0	U	NA		1	U
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**62**		**67**		**61**		**110**		NA		NA		NA		NA		NA		**46**		NA		**47**	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**110**		**120**		**120**		NA		NA		**83**		**72**		**120**		**80**		NA		**84**	
81	74	Chloride (mg/L) (EPA 325.2)	**4.2**	J	**3.0**		**1.9**		**4.4**		NA		NA		**1.6**		**1.5**		**1.3**		**2.5**		NA		**2.2**	
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.12**	J	**0.083**		**0.023**		**0.78**	J2	NA		NA		NA		NA		NA		**0.21**		NA		**0.66**	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	0.010	U	0.010	U	0.010	UJ	NA		NA		NA		NA		NA		0.010	U	NA		0.01	U
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.12**	J	**0.083**		**0.023**		**0.78**	J2	NA		NA		NA		NA		NA		**0.21**		NA		**0.66**	
85	78	Sulfate (mg/L) (EPA 375.2)	**4.5**	J	**4.7**		**3.2**		**6.0**		NA		NA		NA		NA		NA		**5.1**		NA		**6.1**	
86	79																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

			LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S	
			S167D		T160E		U235B		V211B		W371B		Z960S		AH76L		BH75B		CT37H		ED16B		EM75B		FF48C	
			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
87	80	**FIELD PARAMETERS**																								
88	81	pH (avg)	6.63		6.60		6.76		6.60		6.06		6.71		6.04		6.59		5.63		6.13		5.24		6.74	
89	82	Temperature (° C) (avg)	10.6		19.0		16.8		9.8		14.4		9.3		13.5		10.0		9.5		9.1		14.5		11	
90	83	Conductivity (um/hos)	136		158		133		188		129		100		87		94		127		90		91		104	
91	84	Dissolved oxygen (mg/L) (avg)									2.82		5.70		3.14		3.51		1.74		7.06		4.96		2.17	
92	85																									
93	86	**DIOXINS AND FURANS (ng/L)**																								
94	87	**Method 8290**																								
95	88	2,3,7,8-TCDF	0.0026	U	0.0011	U	0.0024	U	0.0018	U	NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	0.0013-0.0048	U	0.0006-0.0058	U	0.0012-0.0052	U	0.0018	U	NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	0.0033	U	0.0023	U	0.0055	U	0.0037	U	NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	0.0023-0.0075	U	0.008-0.0068	U	0.0018-0.0090	U	0.0037	U	NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	0.0027	U	0.0045	U	0.0020	U	0.0018	U	NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	0.0025	U	0.0031	U	0.0021	U	0.0024	U	NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	0.0013-0.0078	U	0.0014-0.0088	U	0.0015-0.0068	U	0.0021	U	NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	0.0061	U	0.0077	U	0.0040	U	0.0057	U	NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	0.0030-0.011	U	0.0023-0.0093	U	0.0016-0.0092	U	0.0057	U	NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	0.0031	U	0.0034	U	0.0067	U	0.0021	U	NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	0.0043	U	0.0031	U	0.0048	U	0.0019	U	NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	0.0053	U	0.0031	U	0.0048	U	0.0036	U	NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	0.0049	U	0.0049	U	0.0020	U	0.0031	U	NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	0.0053	U	0.0020-0.0066	U	0.0048	U	0.0057	U	NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	0.0054	U	0.0030	U	0.0073	U	0.0034	U	NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	0.0068	U	0.0056	U	0.0084	U	0.0041	U	NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	0.0073	U	0.0084	U	0.0039	U	0.0019	U	NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	0.0030-0.010	U	0.0023-0.0084	U	0.0029-0.013	U	0.0031	U	NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	0.0044	U	**0.0016**		0.0047	U	0.0160	U	NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	0.0073	U	0.0063	U	0.0077	U	0.0052	U	NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	**0.0062**		**0.0043**		0.0150	U	0.0106	U	NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	0.0110	U	0.0065	U	**0.0180**		0.0070	U	NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	0.0170	U	0.0024-0.0092	U	**0.0310**		0.0070	U	NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	**0.0100**		**0.0062**		0.0170	U	**0.0074**		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	0.0710	U	0.0280	U	**0.1200**		0.0390	U	NA		NA		NA		NA		NA		NA		NA		NA	
120																										
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																										

BZTO104(e)022001

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S	
4			S167D		T160E		U235B		V211B		W371B		Z960S		AH76L		BH75B		CT37H		ED16B		EM75B		FF48C	
5			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
123		**PAHs (µg/L)**																								
124		**EPA Method SW8270 SIM**																								
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																									Dup of LW103S			
3			LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW13D		LW103S	
4			S167B		T160C		U235D		V211A		W371D		Z960U		AH76N		BH75C		CT37K		ED16D		EM75D		EM75I		FF48E	
5			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		6/25/02		2/10/03	
6																												
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	0.25	U	**0.58**		0.25	U	0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA		NA	
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	NA		NA		2.0	U	2.0	U	2.0	U	2.0	U	NA		NA		2	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	NA		NA		3.0	U	3.0	U	3.0	U	3.0	U	NA		NA		3	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	NA		NA		10	U	10	U	10	U	50	U	NA		NA		50	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	4.0	U	NA		NA		1	U
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	9.1	U	5.0	U	NA		NA		5	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	51	**Method OR-DEQ**																										
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																									Dup of LW103S			
3			LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW13D		LW103S	
4			S167B		T160C		U235D		V211A		W371D		Z960U		AH76N		BH75C		CT37K		ED16D		EM75D		EM75I		FF48E	
5			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		6/25/02		2/10/03	
63	56	**PRIORITY POLLUTANT**																										
64	57	**METALS (mg/L)**																										
65	58	Arsenic (7060)	**0.007**		**0.011**		0.05	U	0.05	U	**0.010**		**0.009**		**0.011**		**0.019**		**0.008**		**0.013**		NA		NA		**0.008**	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	NA		NA		0.005	U
67	60	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.007**		0.002	U	**0.003**		NA		NA		0.002	U
68	61	Lead (7421)	0.001	U	**0.001**		0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	**0.003**		0.001	U	0.001	U	NA		NA		0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	NA		NA		0.01	U
70	63	Zinc (6010)	**0.005**		**0.008**		**0.004**		**0.005**		**0.006**	J2	**0.007**	J	0.004	U	**0.010**		0.006	U	0.006	U	NA		NA		0.006	U
71	64																											
72	65	**MAJOR IONS AND CONVENTIONALS**																										
73	66	Calcium (mg/L) (6010)	**13.5**		**19**		**15.6**		**16.0**		NA		NA		NA		NA		NA		**17.0**		NA		NA		**15.4**	
74	67	Magnesium (mg/L) (6010)	**5.02**		**6.95**		**5.65**		**5.89**		NA		NA		NA		NA		NA		**6.51**		NA		NA		**5.89**	
75	68	Potassium (mg/L) (6010)	**1.8**		**2.0**		**2.0**		**1.3**		NA		NA		NA		NA		NA		**1.7**		NA		NA		**1.4**	
76	69	Sodium (mg/L) (6010)	**4.93**		**5.35**		**5.11**		**5.99**		NA		NA		NA		NA		NA		**5.57**		NA		NA		**6.7**	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**95**		**84**		**71**		**84**		NA		NA		NA		NA		NA		**83**		NA		NA		**100**	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		1.0	U	NA		NA		1	U
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**95**		**84**		**71**		**84**		NA		NA		NA		NA		NA		**83**		NA		NA		**100**	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**130**		**100**		**110**		NA		NA		**110**		**97**		**130**		**110**		NA		NA		**110**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.2**	J	**2.5**		**1.7**		**1.3**		NA		NA		**1.7**		**2.3**		**2.5**		**2.3**		NA		NA		**2.8**	
82	75	N-Nitrate (mg-N/L) (Calculated)	0.010	U	0.010	U	**0.036**		**0.057**	J2	NA		NA		NA		NA		NA		**0.093**		NA		NA		**0.2**	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	**0.017**		**0.016**		0.010	UJ	NA		NA		NA		NA		NA		0.010	U	NA		NA		0.01	U
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	0.010	U	0.010	U	**0.052**		**0.057**	J2	NA		NA		NA		NA		NA		**0.093**		NA		NA		**0.2**	
85	78	Sulfate (mg/L) (EPA 375.2)	**5.5**	J	**4.6**		**2.6**		2.5	U	NA		NA		NA		NA		NA		**2.9**		NA		NA		**8.6**	
86	79																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																									Dup of LW103S			
2			LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW13D		LW103S	
3			S167B		T160C		U235D		V211A		W371D		Z960U		AH76N		BH75C		CT37K		ED16D		EM75D		EM75I		FF48E	
4			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		6/25/02		2/10/03	
5																												
87	80	**FIELD PARAMETERS**																										
88	81	pH (avg)	6.74		6.75		6.77		6.73		6.37		7.02		6.14		6.74		6.52		6.17		6.47		6.47		7.12	
89	82	Temperature (° C) (avg)	10.9		14.6		14.7		12.2		13.2		10.8		12.4		11.0		11.5		10.7		13.5		13.5		12.2	
90	83	Conductivity (um/hos)	157		222		180		198		214		128		174		135		160		170		187		188		184	
91	84	Dissolved oxygen (mg/L) (avg)									1.47		2.98		2.79		2.56		3.55		5.73		5.70		5.74		1.79	
92	85																											
93	86	**DIOXINS AND FURANS (ng/L)**																										
94	87	**Method 8290**																										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																									Dup of LW103S			
3			LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW13D		LW103S	
4			S167B		T160C		U235D		V211A		W371D		Z960U		AH76N		BH75C		CT37K		ED16D		EM75D		EM75I		FF48E	
5			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		6/25/02		2/10/03	
123		**PAHs (µg/L)**																										
124		**EPA Method SW8270 SIM**																										
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S	
4			S167A		T160B		U235A		V208A		W371A		Z960R		AH76K		BH75D		CT37G		ED16A		EM75A		FF48B	
5			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
6																										
7	1	**CHLORINATED PHENOLS (µg/L)**																								
8	2	**EPA Method SW8040**																								
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	0.25	U	**0.77**		0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
16	10																									
17	11	**SEMIVOLATILES (µg/L)**																								
18	12	**EPA Method SW8270**																								
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	NA		NA		2.0	U	2.0	U	2.0	U	2.0	U	NA		2	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	NA		NA		3.0	U	3.0	U	3.0	U	3.0	U	NA		3	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	NA		NA		10	U	10	U	10	U	50	U	NA		50	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	**2.0**		**10**		NA		1	U
33	27																									
34	28	**VOLATILES (µg/L)**																								
35	29	**EPA Method SW8260**																								
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	8.9	U	5.0	U	NA		5	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																									
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	51	**Method OR-DEQ**																								
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	**0.32**		0.25	U	NA		0.25	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S	
4			S167A		T160B		U235A		V208A		W371A		Z960R		AH76K		BH75D		CT37G		ED16A		EM75A		FF48B	
5			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
63	56	**PRIORITY POLLUTANT**																								
64	57	**METALS (mg/L)**																								
65	58	Arsenic (7060)	**0.002**		**0.003**		0.05	U	0.05	U	**0.002**		**0.002**		**0.001**		**0.002**		**0.002**		**0.002**		NA		**0.002**	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	NA		0.005	U
67	60	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	NA		**0.028**	
68	61	Lead (7421)	0.001	U	0.001	U	0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	NA		0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	NA		0.01	U
70	63	Zinc (6010)	0.004	U	**0.005**		0.004	U	0.004	U	0.004	U	**0.019**	J	0.004	U	**0.008**		0.006	U	0.006	U	NA		**0.018**	
71	64																									
72	65	**MAJOR IONS AND CONVENTIONALS**																								
73	66	Calcium (mg/L) (6010)	**17.6**		**16.1**		**20.9**		**13.0**		NA		NA		NA		NA		NA		**9.25**		NA		**15.7**	
74	67	Magnesium (mg/L) (6010)	**4.63**		**4.26**		**5.48**		**3.66**		NA		NA		NA		NA		NA		**2.88**		NA		**4.9**	
75	68	Potassium (mg/L) (6010)	**2.5**		**2.8**		**3.4**		**1.8**		NA		NA		NA		NA		NA		**1.8**		NA		**2.3**	
76	69	Sodium (mg/L) (6010)	**11.4**		**12.1**		**12.6**		**9.60**		NA		NA		NA		NA		NA		**7.09**		NA		**9.5**	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**92**		**86**		**100**		**81**		NA		NA		NA		NA		NA		**53**		NA		**88**	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		1.0	U	NA		1	U
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**92**		**86**		**100**		**81**		NA		NA		NA		NA		NA		**53**		NA		**88**	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**140**		**160**	J2	**110**		NA		NA		**110**		**83**		**160**		**99**		NA		**120**	
81	74	Chloride (mg/L) (EPA 325.2)	**3.8**	J	**2.8**		**2.5**		**2.2**		NA		NA		**2.1**		**1.9**		**1.4**		**2.8**		NA		**3.3**	
82	75	N-Nitrate (mg-N/L) (Calculated)	0.010	U	0.010	U	**0.031**		**0.011**		NA		NA		NA		NA		NA		0.010	U	NA		**0.021**	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	**0.019**		0.010	U	0.010	U	NA		NA		NA		NA		NA		0.010	U	NA		0.01	U
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	0.010	U	**0.011**		**0.031**		**0.011**		NA		NA		NA		NA		NA		0.010	U	NA		**0.021**	
85	78	Sulfate (mg/L) (EPA 375.2)	**4.2**	J	**5.7**		2.5	U	**8.0**		NA		NA		NA		NA		NA		**9.3**		NA		**9.3**	
86	79																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S	
4			S167A		T160B		U235A		V208A		W371A		Z960R		AH76K		BH75D		CT37G		ED16A		EM75A		FF48B	
5			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
87	80	**FIELD PARAMETERS**																								
88	81	pH (avg)	6.75		6.80		6.77		6.85		6.39		7.19		6.32		6.88		6.05		6.15		5.43		7.28	
89	82	Temperature (° C) (avg)	9.7		15.1		15.9		11.9		12.1		10.7		12.4		10.5		11.4		11.1		13.8		12.3	
90	83	Conductivity (um/hos)	198		223		228		185		197		131		167		99		238		111		123		196	
91	84	Dissolved oxygen (mg/L) (avg)									1.75		1.45		1.45		2.00		1.48		5.18		4.26		1.67	
92	85																									
93	86	**DIOXINS AND FURANS (ng/L)**																								
94	87	**Method 8290**																								
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																										
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																										

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - FEBRUARY 2005
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S	
4			S167A		T160B		U235A		V208A		W371A		Z960R		AH76K		BH75D		CT37G		ED16A		EM75A		FF48B	
5			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
123		**PAHs (µg/L)**																								
124		**EPA Method SW8270 SIM**																								
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

	A	B	C	D	E	F	G	H	I	J
1	LAB_CHEM	SITE_ID	LSAMP_ID	SAMP_DATE	METHOD_ID	LAB_CHEM		Value	Flag	UNITS
2										
3	Pentachlorophenol	G1A	0411051-06	11/9/04	8270	Pentachlorophenol	3	5.04	U	ug/L
4	Phenol	G1A	0411051-06	11/9/04	8270	Phenol	13	2.01	U	ug/L
5	3-&4-Methylphenol	G1A	0411051-06	11/9/04	8270	3-&4-Methylphenol	14	10.1	U	ug/L
6	Isophorone	G1A	0411051-06	11/9/04	8270	Isophorone	15	1.01	U	ug/L
7	2,4-Dimethylphenol	G1A	0411051-06	11/9/04	8270	2,4-Dimethylphenol	16	3.02	U	ug/L
8	Benzoic Acid	G1A	0411051-06	11/9/04	8270	Benzoic Acid	17	20.1	U	ug/L
9	Naphthalene	G1A	0411051-06	11/9/04	8270	Naphthalene	18	1.01	U	ug/L
10	2-Methylnaphthalene	G1A	0411051-06	11/9/04	8270	2-Methylnaphthalene	19	1.01	U	ug/L
11	2,4,6-Trichlorophenol	G1A	0411051-06	11/9/04	8270	2,4,6-Trichlorophenol	20	5.04	U	ug/L
12	2,4,5-Trichlorophenol	G1A	0411051-06	11/9/04	8270	2,4,5-Trichlorophenol	21	5.04	U	ug/L
13	Acenaphthene	G1A	0411051-06	11/9/04	8270	Acenaphthene	22	1.01	U	ug/L
14	Dibenzofuran	G1A	0411051-06	11/9/04	8270	Dibenzofuran	23	1.01	U	ug/L
15	Fluorene	G1A	0411051-06	11/9/04	8270	Fluorene	24	1.01	U	ug/L
16	Pentachlorophenol	G1A	0411051-06	11/9/04	8270SIM	Pentachlorophenol	25	0.478	U	ug/L
17	Bis(2-ethylhexyl)phthalate	G1A	0411051-06	11/9/04	8270	Bis(2-ethylhexyl)phthalate	26	1.01	U	ug/L
18	Acetone	G1A	0411051-06	11/9/04	8260	Acetone	30	50	U	ug/L
19	Carbon disulfide	G1A	0411051-06	11/9/04	8260	Carbon disulfide	31	2	U	ug/L
20	2-Butanone	G1A	0411051-06	11/9/04	8260	2-Butanone	32	**12**		ug/L
21	Benzene	G1A	0411051-06	11/9/04	8260	Benzene	33	0.3	U	ug/L
22	Bromoform	G1A	0411051-06	11/9/04	8260	Bromoform	34	1	U	ug/L
23	Toluene	G1A	0411051-06	11/9/04	8260	Toluene	35	1	U	ug/L
24	Ethylbenzene	G1A	0411051-06	11/9/04	8260	Ethylbenzene	36	1	U	ug/L
25	Styrene	G1A	0411051-06	11/9/04	8260	Styrene	37	1	U	ug/L
26	m,p-Xylene	G1A	0411051-06	11/9/04	8260	m,p-Xylene	38	2	U	ug/L
27	o-Xylene	G1A	0411051-06	11/9/04	8260	o-Xylene	39	**1.4**		ug/L
28	1,3,5-Trimethylbenzene	G1A	0411051-06	11/9/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
29	1,2,4-Trimethylbenzene	G1A	0411051-06	11/9/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
30	Isopropylbenzene	G1A	0411051-06	11/9/04	8260	Isopropylbenzene	42	**86.6**		ug/L
31	n-Propylbenzene	G1A	0411051-06	11/9/04	8260	n-Propylbenzene	43	**114**		ug/L
32	tert-Butylbenzene	G1A	0411051-06	11/9/04	8260	tert-Butylbenzene	44	**3.89**		ug/L
33	sec-Butylbenzene	G1A	0411051-06	11/9/04	8260	sec-Butylbenzene	45	**24.5**		ug/L
34	4-Isopropyltoluene	G1A	0411051-06	11/9/04	8260	4-Isopropyltoluene	46	1	U	ug/L
35	n-Butylbenzene	G1A	0411051-06	11/9/04	8260	n-Butylbenzene	47	**14**		ug/L
36	Naphthalene	G1A	0411051-06	11/9/04	8260	Naphthalene	48	1	U	ug/L
37	Methyl tert-butyl ether	G1A	0411051-06	11/9/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
38	Diesel Range Hydrocarbons	G1A	0411051-06	11/9/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**3.13**		mg/L
39	Lube Oil	G1A	0411051-06	11/9/04	NWTPH-Dx	Lube Oil	54	0.502	U	mg/L
40	Arsenic	G1A	0411051-06	11/9/04	6020	Arsenic	59	**0.0295**		ug/L
41	Chromium	G1A	0411051-06	11/9/04	6010	Chromium	60	**0.0203**		mg/L
42	Copper	G1A	0411051-06	11/9/04	6010	Copper	61	0.01	U	mg/L
43	Lead	G1A	0411051-06	11/9/04	6020	Lead	62	**0.00395**		ug/L
44	Nickel	G1A	0411051-06	11/9/04	6010	Nickel	63	**0.13**		mg/L
45	Zinc	G1A	0411051-06	11/9/04	6010	Zinc	64	**0.0243**		mg/L
46	Total Dissolved Solids	G1A	0411051-06	11/9/04	1601	Total Dissolved Solids	74	**339**		mg/L
47	Chloride	G1A	0411051-06	11/9/04	9056	Chloride	75	**6.51**		mg/L
48	pH	G1A	0411051-06	11/9/04	FIELD	pH	82	6.74		s.u.
49	Temperature	G1A	0411051-06	11/9/04	FIELD	Temperature	83	14.1		c
50	Conductivity	G1A	0411051-06	11/9/04	FIELD	Conductivity	84	545		us
51	Dissolved oxygen	G1A	0411051-06	11/9/04	FIELD	Dissolved oxygen	85	1.2		mg/l
52	1,1,1,2-Tetrachloroethane	G1A	0411051-06	11/9/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
53	1,1,1-Trichloroethane	G1A	0411051-06	11/9/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
54	1,1,2,2-Tetrachloroethane	G1A	0411051-06	11/9/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
55	1,1,2-Trichloroethane	G1A	0411051-06	11/9/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
56	1,1-Dichloroethane	G1A	0411051-06	11/9/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
57	1,1-Dichloroethene	G1A	0411051-06	11/9/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
58	1,1-Dichloropropene	G1A	0411051-06	11/9/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
59	1,2,3-Trichlorobenzene	G1A	0411051-06	11/9/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
60	1,2,3-Trichloropropane	G1A	0411051-06	11/9/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
61	1,2,4-Trichlorobenzene	G1A	0411051-06	11/9/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
62	1,2-Dibromo-3-chloropropane	G1A	0411051-06	11/9/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
63	1,2-Dibromoethane	G1A	0411051-06	11/9/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
64	1,2-Dichlorobenzene	G1A	0411051-06	11/9/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
65	1,2-Dichloroethane	G1A	0411051-06	11/9/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
66	1,2-Dichloropropane	G1A	0411051-06	11/9/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
67	1,3-Dichlorobenzene	G1A	0411051-06	11/9/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
68	1,3-Dichloropropane	G1A	0411051-06	11/9/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
69	1,4-Dichlorobenzene	G1A	0411051-06	11/9/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
70	2,2-Dichloropropane	G1A	0411051-06	11/9/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
71	2-Chlorotoluene	G1A	0411051-06	11/9/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
72	2-Hexanone	G1A	0411051-06	11/9/04	8260	2-Hexanone	#N/A	10	U	ug/L
73	4-Chlorotoluene	G1A	0411051-06	11/9/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
74	4-Methyl-2-pentanone	G1A	0411051-06	11/9/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
75	Acrylonitrile	G1A	0411051-06	11/9/04	8260	Acrylonitrile	#N/A	5	U	ug/L
76	Bromobenzene	G1A	0411051-06	11/9/04	8260	Bromobenzene	#N/A	1	U	ug/L
77	Bromochloromethane	G1A	0411051-06	11/9/04	8260	Bromochloromethane	#N/A	1	U	ug/L
78	Bromodichloromethane	G1A	0411051-06	11/9/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
79	Bromomethane	G1A	0411051-06	11/9/04	8260	Bromomethane	#N/A	1	U	ug/L
80	Carbon tetrachloride	G1A	0411051-06	11/9/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
81	Chlorobenzene	G1A	0411051-06	11/9/04	8260	Chlorobenzene	#N/A	1	U	ug/L
82	Chloroethane	G1A	0411051-06	11/9/04	8260	Chloroethane	#N/A	1	U	ug/L
83	Chloroform	G1A	0411051-06	11/9/04	8260	Chloroform	#N/A	1	U	ug/L
84	Chloromethane	G1A	0411051-06	11/9/04	8260	Chloromethane	#N/A	1	U	ug/L
85	cis-1,2-Dichloroethene	G1A	0411051-06	11/9/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
86	cis-1,3-Dichloropropene	G1A	0411051-06	11/9/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
87	Dibromochloromethane	G1A	0411051-06	11/9/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
88	Dibromomethane	G1A	0411051-06	11/9/04	8260	Dibromomethane	#N/A	1	U	ug/L
89	Dichlorodifluoromethane	G1A	0411051-06	11/9/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
90	Hexachlorobutadiene	G1A	0411051-06	11/9/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
91	Methylene chloride	G1A	0411051-06	11/9/04	8260	Methylene chloride	#N/A	20	U	ug/L
92	Tetrachloroethene	G1A	0411051-06	11/9/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
93	trans-1,2-Dichloroethene	G1A	0411051-06	11/9/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
94	trans-1,3-Dichloropropene	G1A	0411051-06	11/9/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
95	Trichloroethene	G1A	0411051-06	11/9/04	8260	Trichloroethene	#N/A	1	U	ug/L
96	Trichlorofluoromethane	G1A	0411051-06	11/9/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
97	Vinyl chloride	G1A	0411051-06	11/9/04	8260	Vinyl chloride	#N/A	1	U	ug/L
98	1,2,4-Trichlorobenzene	G1A	0411051-06	11/9/04	8270	1,2,4-Trichlorobenzene	#N/A	1.01	U	ug/L
99	1,2-Dichlorobenzene	G1A	0411051-06	11/9/04	8270	1,2-Dichlorobenzene	#N/A	1.01	U	ug/L
100	1,3-Dichlorobenzene	G1A	0411051-06	11/9/04	8270	1,3-Dichlorobenzene	#N/A	1.01	U	ug/L
101	1,4-Dichlorobenzene	G1A	0411051-06	11/9/04	8270	1,4-Dichlorobenzene	#N/A	1.01	U	ug/L
102	2,4-Dichlorophenol	G1A	0411051-06	11/9/04	8270	2,4-Dichlorophenol	#N/A	3.02	U	ug/L
103	2,4-Dinitrophenol	G1A	0411051-06	11/9/04	8270	2,4-Dinitrophenol	#N/A	10.1	U	ug/L
104	2,4-Dinitrotoluene	G1A	0411051-06	11/9/04	8270	2,4-Dinitrotoluene	#N/A	5.04	U	ug/L
105	2,6-Dinitrotoluene	G1A	0411051-06	11/9/04	8270	2,6-Dinitrotoluene	#N/A	5.04	U	ug/L
106	2-Chloronaphthalene	G1A	0411051-06	11/9/04	8270	2-Chloronaphthalene	#N/A	1.01	U	ug/L
107	2-Chlorophenol	G1A	0411051-06	11/9/04	8270	2-Chlorophenol	#N/A	1.01	U	ug/L
108	2-Methylphenol	G1A	0411051-06	11/9/04	8270	2-Methylphenol	#N/A	2.01	U	ug/L
109	2-Nitroaniline	G1A	0411051-06	11/9/04	8270	2-Nitroaniline	#N/A	5.04	U	ug/L
110	2-Nitrophenol	G1A	0411051-06	11/9/04	8270	2-Nitrophenol	#N/A	5.04	U	ug/L
111	3,3'-Dichlorobenzidine	G1A	0411051-06	11/9/04	8270	3,3'-Dichlorobenzidine	#N/A	5.04	U	ug/L
112	3-Nitroaniline	G1A	0411051-06	11/9/04	8270	3-Nitroaniline	#N/A	6.04	U	ug/L
113	4,6-Dinitro-2-methylphenol	G1A	0411051-06	11/9/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.1	U	ug/L
114	4-Bromophenyl phenyl ether	G1A	0411051-06	11/9/04	8270	4-Bromophenyl phenyl ether	#N/A	1.01	U	ug/L
115	4-Chloro-3-methylphenol	G1A	0411051-06	11/9/04	8270	4-Chloro-3-methylphenol	#N/A	2.01	U	ug/L
116	4-Chloroaniline	G1A	0411051-06	11/9/04	8270	4-Chloroaniline	#N/A	3.02	U	ug/L
117	4-Chlorophenyl phenyl ether	G1A	0411051-06	11/9/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.01	U	ug/L
118	4-Nitroaniline	G1A	0411051-06	11/9/04	8270	4-Nitroaniline	#N/A	5.04	U	ug/L
119	4-Nitrophenol	G1A	0411051-06	11/9/04	8270	4-Nitrophenol	#N/A	5.04	U	ug/L
120	Benz(a)anthracene	G1A	0411051-06	11/9/04	8270	Benz(a)anthracene	#N/A	1.01	U	ug/L
121	Benzo(a)pyrene	G1A	0411051-06	11/9/04	8270	Benzo(a)pyrene	#N/A	1.01	U	ug/L
122	Benzo(b)fluoranthene	G1A	0411051-06	11/9/04	8270	Benzo(b)fluoranthene	#N/A	1.01	U	ug/L
123	Benzo(g,h,i)perylene	G1A	0411051-06	11/9/04	8270	Benzo(g,h,i)perylene	#N/A	1.01	U	ug/L
124	Benzo(k)fluoranthene	G1A	0411051-06	11/9/04	8270	Benzo(k)fluoranthene	#N/A	1.01	U	ug/L
125	Benzyl Alcohol	G1A	0411051-06	11/9/04	8270	Benzyl Alcohol	#N/A	5.04	U	ug/L
126	Bis(2-chloroethoxy)methane	G1A	0411051-06	11/9/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.01	U	ug/L
127	Bis(2-chloroethyl)ether	G1A	0411051-06	11/9/04	8270	Bis(2-chloroethyl)ether	#N/A	2.01	U	ug/L
128	Bis(2-chloroisopropyl)ether	G1A	0411051-06	11/9/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.01	U	ug/L
129	Butyl benzyl phthalate	G1A	0411051-06	11/9/04	8270	Butyl benzyl phthalate	#N/A	1.01	U	ug/L
130	Carbazole	G1A	0411051-06	11/9/04	8270	Carbazole	#N/A	1.01	U	ug/L
131	Chrysene	G1A	0411051-06	11/9/04	8270	Chrysene	#N/A	1.01	U	ug/L
132	Dibenz(a,h)anthracene	G1A	0411051-06	11/9/04	8270	Dibenz(a,h)anthracene	#N/A	1.01	U	ug/L
133	Diethyl phthalate	G1A	0411051-06	11/9/04	8270	Diethyl phthalate	#N/A	1.01	U	ug/L
134	Dimethyl phthalate	G1A	0411051-06	11/9/04	8270	Dimethyl phthalate	#N/A	1.01	U	ug/L
135	Di-n-butyl phthalate	G1A	0411051-06	11/9/04	8270	Di-n-butyl phthalate	#N/A	1.01	U	ug/L
136	Di-n-octyl phthalate	G1A	0411051-06	11/9/04	8270	Di-n-octyl phthalate	#N/A	1.01	U	ug/L
137	Fluoranthene	G1A	0411051-06	11/9/04	8270	Fluoranthene	#N/A	1.01	U	ug/L
138	Hexachlorobenzene	G1A	0411051-06	11/9/04	8270	Hexachlorobenzene	#N/A	1.01	U	ug/L
139	Hexachlorobutadiene	G1A	0411051-06	11/9/04	8270	Hexachlorobutadiene	#N/A	2.01	U	ug/L
140	Hexachlorocyclopentadiene	G1A	0411051-06	11/9/04	8270	Hexachlorocyclopentadiene	#N/A	5.04	U	ug/L
141	Hexachloroethane	G1A	0411051-06	11/9/04	8270	Hexachloroethane	#N/A	2.01	U	ug/L
142	Indeno(1,2,3-cd)pyrene	G1A	0411051-06	11/9/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.01	U	ug/L
143	Nitrobenzene	G1A	0411051-06	11/9/04	8270	Nitrobenzene	#N/A	1.01	U	ug/L
144	N-Nitrosodimethylamine	G1A	0411051-06	11/9/04	8270	N-Nitrosodimethylamine	#N/A	1.01	U	ug/L
145	N-Nitrosodi-n-propylamine	G1A	0411051-06	11/9/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.01	U	ug/L
146	N-Nitrosodiphenylamine	G1A	0411051-06	11/9/04	8270	N-Nitrosodiphenylamine	#N/A	1.01	U	ug/L

	A	B	C	D	E	F	G	H	I	J
147	Phenanthrene	G1A	0411051-06	11/9/04	8270	Phenanthrene	#N/A	1.01	U	ug/L
148	Pyrene	G1A	0411051-06	11/9/04	8270	Pyrene	#N/A	1.01	U	ug/L
149	Pyridine	G1A	0411051-06	11/9/04	8270	Pyridine	#N/A	5.04	U	ug/L
150	Turbidity	G1A	0411051-06	11/9/04	FIELD	Turbidity	#N/A	0		ntu
151	Pentachlorophenol	HRW1	0411066-14	11/11/04	8270SIM	Pentachlorophenol	25	0.473	U	ug/L
152	pH	HRW1	0411066-14	11/11/04	FIELD	pH	82	6.25		s.u.
153	Temperature	HRW1	0411066-14	11/11/04	FIELD	Temperature	83	17.6		c
154	Conductivity	HRW1	0411066-14	11/11/04	FIELD	Conductivity	84	724		us
155	Dissolved oxygen	HRW1	0411066-14	11/11/04	FIELD	Dissolved oxygen	85	1.89		mg/l
156	Turbidity	HRW1	0411066-14	11/11/04	FIELD	Turbidity	#N/A	177		ntu
157	Benzene	K	0411052-05	11/9/04	8260	Benzene	33	0.3	U	ug/L
158	Toluene	K	0411052-05	11/9/04	8260	Toluene	35	1	U	ug/L
159	Ethylbenzene	K	0411052-05	11/9/04	8260	Ethylbenzene	36	1	U	ug/L
160	m,p-Xylene	K	0411052-05	11/9/04	8260	m,p-Xylene	38	2	U	ug/L
161	o-Xylene	K	0411052-05	11/9/04	8260	o-Xylene	39	1	U	ug/L
162	Gasoline Range Hydrocarbons	K	0411052-05	11/9/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	0.1	U	ug/L
163	pH	K	0411052-05	11/9/04	FIELD	pH	82	6.17		s.u.
164	Temperature	K	0411052-05	11/9/04	FIELD	Temperature	83	16.1		c
165	Conductivity	K	0411052-05	11/9/04	FIELD	Conductivity	84	269		us
166	Dissolved oxygen	K	0411052-05	11/9/04	FIELD	Dissolved oxygen	85	3		mg/l
167	Turbidity	K	0411052-05	11/9/04	FIELD	Turbidity	#N/A	1.55		ntu
168	Pentachlorophenol	LW10D	0411051-03	11/9/04	8270	Pentachlorophenol	3	4.93	U	ug/L
169	Phenol	LW10D	0411051-03	11/9/04	8270	Phenol	13	1.97	U	ug/L
170	3-&4-Methylphenol	LW10D	0411051-03	11/9/04	8270	3-&4-Methylphenol	14	9.85	U	ug/L
171	Isophorone	LW10D	0411051-03	11/9/04	8270	Isophorone	15	0.985	U	ug/L
172	2,4-Dimethylphenol	LW10D	0411051-03	11/9/04	8270	2,4-Dimethylphenol	16	2.96	U	ug/L
173	Benzoic Acid	LW10D	0411051-03	11/9/04	8270	Benzoic Acid	17	19.7	U	ug/L
174	Naphthalene	LW10D	0411051-03	11/9/04	8270	Naphthalene	18	0.985	U	ug/L
175	2-Methylnaphthalene	LW10D	0411051-03	11/9/04	8270	2-Methylnaphthalene	19	0.985	U	ug/L
176	2,4,6-Trichlorophenol	LW10D	0411051-03	11/9/04	8270	2,4,6-Trichlorophenol	20	4.93	U	ug/L
177	2,4,5-Trichlorophenol	LW10D	0411051-03	11/9/04	8270	2,4,5-Trichlorophenol	21	4.93	U	ug/L
178	Acenaphthene	LW10D	0411051-03	11/9/04	8270	Acenaphthene	22	0.985	U	ug/L
179	Dibenzofuran	LW10D	0411051-03	11/9/04	8270	Dibenzofuran	23	0.985	U	ug/L
180	Fluorene	LW10D	0411051-03	11/9/04	8270	Fluorene	24	0.985	U	ug/L
181	Pentachlorophenol	LW10D	0411051-03	11/9/04	8270SIM	Pentachlorophenol	25	0.489	U	ug/L
182	Bis(2-ethylhexyl)phthalate	LW10D	0411051-03	11/9/04	8270	Bis(2-ethylhexyl)phthalate	26	0.985	U	ug/L
183	Acetone	LW10D	0411051-03	11/9/04	8260	Acetone	30	50	U	ug/L
184	Carbon disulfide	LW10D	0411051-03	11/9/04	8260	Carbon disulfide	31	2	U	ug/L
185	2-Butanone	LW10D	0411051-03	11/9/04	8260	2-Butanone	32	10	U	ug/L
186	Benzene	LW10D	0411051-03	11/9/04	8260	Benzene	33	0.3	U	ug/L
187	Bromoform	LW10D	0411051-03	11/9/04	8260	Bromoform	34	1	U	ug/L
188	Toluene	LW10D	0411051-03	11/9/04	8260	Toluene	35	1	U	ug/L
189	Ethylbenzene	LW10D	0411051-03	11/9/04	8260	Ethylbenzene	36	1	U	ug/L
190	Styrene	LW10D	0411051-03	11/9/04	8260	Styrene	37	1	U	ug/L
191	m,p-Xylene	LW10D	0411051-03	11/9/04	8260	m,p-Xylene	38	2	U	ug/L
192	o-Xylene	LW10D	0411051-03	11/9/04	8260	o-Xylene	39	1	U	ug/L
193	1,3,5-Trimethylbenzene	LW10D	0411051-03	11/9/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
194	1,2,4-Trimethylbenzene	LW10D	0411051-03	11/9/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
195	Isopropylbenzene	LW10D	0411051-03	11/9/04	8260	Isopropylbenzene	42	1	U	ug/L
196	n-Propylbenzene	LW10D	0411051-03	11/9/04	8260	n-Propylbenzene	43	1	U	ug/L
197	tert-Butylbenzene	LW10D	0411051-03	11/9/04	8260	tert-Butylbenzene	44	1	U	ug/L
198	sec-Butylbenzene	LW10D	0411051-03	11/9/04	8260	sec-Butylbenzene	45	1	U	ug/L
199	4-Isopropyltoluene	LW10D	0411051-03	11/9/04	8260	4-Isopropyltoluene	46	1	U	ug/L
200	n-Butylbenzene	LW10D	0411051-03	11/9/04	8260	n-Butylbenzene	47	1	U	ug/L
201	Naphthalene	LW10D	0411051-03	11/9/04	8260	Naphthalene	48	1	U	ug/L
202	Methyl tert-butyl ether	LW10D	0411051-03	11/9/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
203	Diesel Range Hydrocarbons	LW10D	0411051-03	11/9/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	0.24	U	mg/L
204	Lube Oil	LW10D	0411051-03	11/9/04	NWTPH-Dx	Lube Oil	54	0.481	U	mg/L
205	Arsenic	LW10D	0411051-03	11/9/04	6020	Arsenic	59	**0.0168**		ug/L
206	Chromium	LW10D	0411051-03	11/9/04	6010	Chromium	60	**0.0233**		mg/L
207	Copper	LW10D	0411051-03	11/9/04	6010	Copper	61	0.01	U	mg/L
208	Lead	LW10D	0411051-03	11/9/04	6020	Lead	62	**0.0021**		ug/L
209	Nickel	LW10D	0411051-03	11/9/04	6010	Nickel	63	0.005	U	mg/L
210	Zinc	LW10D	0411051-03	11/9/04	6010	Zinc	64	**0.0159**		mg/L
211	Total Dissolved Solids	LW10D	0411051-03	11/9/04	1601	Total Dissolved Solids	74	**156**		mg/L
212	Chloride	LW10D	0411051-03	11/9/04	9056	Chloride	75	**1.34**		mg/L
213	pH	LW10D	0411051-03	11/9/04	FIELD	pH	82	6.8		s.u.
214	Temperature	LW10D	0411051-03	11/9/04	FIELD	Temperature	83	13.8		c
215	Conductivity	LW10D	0411051-03	11/9/04	FIELD	Conductivity	84	157		us
216	Dissolved oxygen	LW10D	0411051-03	11/9/04	FIELD	Dissolved oxygen	85	1.66		mg/l
217	1,1,1,2-Tetrachloroethane	LW10D	0411051-03	11/9/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
218	1,1,1-Trichloroethane	LW10D	0411051-03	11/9/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
219	1,1,2,2-Tetrachloroethane	LW10D	0411051-03	11/9/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
220	1,1,2-Trichloroethane	LW10D	0411051-03	11/9/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
221	1,1-Dichloroethane	LW10D	0411051-03	11/9/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
222	1,1-Dichloroethene	LW10D	0411051-03	11/9/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
223	1,1-Dichloropropene	LW10D	0411051-03	11/9/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
224	1,2,3-Trichlorobenzene	LW10D	0411051-03	11/9/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
225	1,2,3-Trichloropropane	LW10D	0411051-03	11/9/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
226	1,2,4-Trichlorobenzene	LW10D	0411051-03	11/9/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
227	1,2-Dibromo-3-chloropropane	LW10D	0411051-03	11/9/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
228	1,2-Dibromoethane	LW10D	0411051-03	11/9/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
229	1,2-Dichlorobenzene	LW10D	0411051-03	11/9/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
230	1,2-Dichloroethane	LW10D	0411051-03	11/9/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
231	1,2-Dichloropropane	LW10D	0411051-03	11/9/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
232	1,3-Dichlorobenzene	LW10D	0411051-03	11/9/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
233	1,3-Dichloropropane	LW10D	0411051-03	11/9/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
234	1,4-Dichlorobenzene	LW10D	0411051-03	11/9/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
235	2,2-Dichloropropane	LW10D	0411051-03	11/9/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
236	2-Chlorotoluene	LW10D	0411051-03	11/9/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
237	2-Hexanone	LW10D	0411051-03	11/9/04	8260	2-Hexanone	#N/A	10	U	ug/L
238	4-Chlorotoluene	LW10D	0411051-03	11/9/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
239	4-Methyl-2-pentanone	LW10D	0411051-03	11/9/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
240	Acrylonitrile	LW10D	0411051-03	11/9/04	8260	Acrylonitrile	#N/A	5	U	ug/L
241	Bromobenzene	LW10D	0411051-03	11/9/04	8260	Bromobenzene	#N/A	1	U	ug/L
242	Bromochloromethane	LW10D	0411051-03	11/9/04	8260	Bromochloromethane	#N/A	1	U	ug/L
243	Bromodichloromethane	LW10D	0411051-03	11/9/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
244	Bromomethane	LW10D	0411051-03	11/9/04	8260	Bromomethane	#N/A	1	U	ug/L
245	Carbon tetrachloride	LW10D	0411051-03	11/9/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
246	Chlorobenzene	LW10D	0411051-03	11/9/04	8260	Chlorobenzene	#N/A	1	U	ug/L
247	Chloroethane	LW10D	0411051-03	11/9/04	8260	Chloroethane	#N/A	1	U	ug/L
248	Chloroform	LW10D	0411051-03	11/9/04	8260	Chloroform	#N/A	1	U	ug/L
249	Chloromethane	LW10D	0411051-03	11/9/04	8260	Chloromethane	#N/A	1	U	ug/L
250	cis-1,2-Dichloroethene	LW10D	0411051-03	11/9/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
251	cis-1,3-Dichloropropene	LW10D	0411051-03	11/9/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
252	Dibromochloromethane	LW10D	0411051-03	11/9/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
253	Dibromomethane	LW10D	0411051-03	11/9/04	8260	Dibromomethane	#N/A	1	U	ug/L
254	Dichlorodifluoromethane	LW10D	0411051-03	11/9/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
255	Hexachlorobutadiene	LW10D	0411051-03	11/9/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
256	Methylene chloride	LW10D	0411051-03	11/9/04	8260	Methylene chloride	#N/A	20	U	ug/L
257	Tetrachloroethene	LW10D	0411051-03	11/9/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
258	trans-1,2-Dichloroethene	LW10D	0411051-03	11/9/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
259	trans-1,3-Dichloropropene	LW10D	0411051-03	11/9/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
260	Trichloroethene	LW10D	0411051-03	11/9/04	8260	Trichloroethene	#N/A	1	U	ug/L
261	Trichlorofluoromethane	LW10D	0411051-03	11/9/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
262	Vinyl chloride	LW10D	0411051-03	11/9/04	8260	Vinyl chloride	#N/A	1	U	ug/L
263	1,2,4-Trichlorobenzene	LW10D	0411051-03	11/9/04	8270	1,2,4-Trichlorobenzene	#N/A	0.985	U	ug/L
264	1,2-Dichlorobenzene	LW10D	0411051-03	11/9/04	8270	1,2-Dichlorobenzene	#N/A	0.985	U	ug/L
265	1,3-Dichlorobenzene	LW10D	0411051-03	11/9/04	8270	1,3-Dichlorobenzene	#N/A	0.985	U	ug/L
266	1,4-Dichlorobenzene	LW10D	0411051-03	11/9/04	8270	1,4-Dichlorobenzene	#N/A	0.985	U	ug/L
267	2,4-Dichlorophenol	LW10D	0411051-03	11/9/04	8270	2,4-Dichlorophenol	#N/A	2.96	U	ug/L
268	2,4-Dinitrophenol	LW10D	0411051-03	11/9/04	8270	2,4-Dinitrophenol	#N/A	9.85	U	ug/L
269	2,4-Dinitrotoluene	LW10D	0411051-03	11/9/04	8270	2,4-Dinitrotoluene	#N/A	4.93	U	ug/L
270	2,6-Dinitrotoluene	LW10D	0411051-03	11/9/04	8270	2,6-Dinitrotoluene	#N/A	4.93	U	ug/L
271	2-Chloronaphthalene	LW10D	0411051-03	11/9/04	8270	2-Chloronaphthalene	#N/A	0.985	U	ug/L
272	2-Chlorophenol	LW10D	0411051-03	11/9/04	8270	2-Chlorophenol	#N/A	0.985	U	ug/L
273	2-Methylphenol	LW10D	0411051-03	11/9/04	8270	2-Methylphenol	#N/A	1.97	U	ug/L
274	2-Nitroaniline	LW10D	0411051-03	11/9/04	8270	2-Nitroaniline	#N/A	4.93	U	ug/L
275	2-Nitrophenol	LW10D	0411051-03	11/9/04	8270	2-Nitrophenol	#N/A	4.93	U	ug/L
276	3,3'-Dichlorobenzidine	LW10D	0411051-03	11/9/04	8270	3,3'-Dichlorobenzidine	#N/A	4.93	U	ug/L
277	3-Nitroaniline	LW10D	0411051-03	11/9/04	8270	3-Nitroaniline	#N/A	5.91	U	ug/L
278	4,6-Dinitro-2-methylphenol	LW10D	0411051-03	11/9/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.85	U	ug/L
279	4-Bromophenyl phenyl ether	LW10D	0411051-03	11/9/04	8270	4-Bromophenyl phenyl ether	#N/A	0.985	U	ug/L
280	4-Chloro-3-methylphenol	LW10D	0411051-03	11/9/04	8270	4-Chloro-3-methylphenol	#N/A	1.97	U	ug/L
281	4-Chloroaniline	LW10D	0411051-03	11/9/04	8270	4-Chloroaniline	#N/A	2.96	U	ug/L
282	4-Chlorophenyl phenyl ether	LW10D	0411051-03	11/9/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.985	U	ug/L
283	4-Nitroaniline	LW10D	0411051-03	11/9/04	8270	4-Nitroaniline	#N/A	4.93	U	ug/L
284	4-Nitrophenol	LW10D	0411051-03	11/9/04	8270	4-Nitrophenol	#N/A	4.93	U	ug/L
285	Benz(a)anthracene	LW10D	0411051-03	11/9/04	8270	Benz(a)anthracene	#N/A	0.985	U	ug/L
286	Benzo(a)pyrene	LW10D	0411051-03	11/9/04	8270	Benzo(a)pyrene	#N/A	0.985	U	ug/L
287	Benzo(b)fluoranthene	LW10D	0411051-03	11/9/04	8270	Benzo(b)fluoranthene	#N/A	0.985	U	ug/L
288	Benzo(g,h,i)perylene	LW10D	0411051-03	11/9/04	8270	Benzo(g,h,i)perylene	#N/A	0.985	U	ug/L
289	Benzo(k)fluoranthene	LW10D	0411051-03	11/9/04	8270	Benzo(k)fluoranthene	#N/A	0.985	U	ug/L
290	Benzyl Alcohol	LW10D	0411051-03	11/9/04	8270	Benzyl Alcohol	#N/A	4.93	U	ug/L
291	Bis(2-chloroethoxy)methane	LW10D	0411051-03	11/9/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.985	U	ug/L
292	Bis(2-chloroethyl)ether	LW10D	0411051-03	11/9/04	8270	Bis(2-chloroethyl)ether	#N/A	1.97	U	ug/L

	A	B	C	D	E	F	G	H	I	J
293	Bis(2-chloroisopropyl)ether	LW10D	0411051-03	11/9/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.985	U	ug/L
294	Butyl benzyl phthalate	LW10D	0411051-03	11/9/04	8270	Butyl benzyl phthalate	#N/A	0.985	U	ug/L
295	Carbazole	LW10D	0411051-03	11/9/04	8270	Carbazole	#N/A	0.985	U	ug/L
296	Chrysene	LW10D	0411051-03	11/9/04	8270	Chrysene	#N/A	0.985	U	ug/L
297	Dibenz(a,h)anthracene	LW10D	0411051-03	11/9/04	8270	Dibenz(a,h)anthracene	#N/A	0.985	U	ug/L
298	Diethyl phthalate	LW10D	0411051-03	11/9/04	8270	Diethyl phthalate	#N/A	0.985	U	ug/L
299	Dimethyl phthalate	LW10D	0411051-03	11/9/04	8270	Dimethyl phthalate	#N/A	0.985	U	ug/L
300	Di-n-butyl phthalate	LW10D	0411051-03	11/9/04	8270	Di-n-butyl phthalate	#N/A	0.985	U	ug/L
301	Di-n-octyl phthalate	LW10D	0411051-03	11/9/04	8270	Di-n-octyl phthalate	#N/A	0.985	U	ug/L
302	Fluoranthene	LW10D	0411051-03	11/9/04	8270	Fluoranthene	#N/A	0.985	U	ug/L
303	Hexachlorobenzene	LW10D	0411051-03	11/9/04	8270	Hexachlorobenzene	#N/A	0.985	U	ug/L
304	Hexachlorobutadiene	LW10D	0411051-03	11/9/04	8270	Hexachlorobutadiene	#N/A	1.97	U	ug/L
305	Hexachlorocyclopentadiene	LW10D	0411051-03	11/9/04	8270	Hexachlorocyclopentadiene	#N/A	4.93	U	ug/L
306	Hexachloroethane	LW10D	0411051-03	11/9/04	8270	Hexachloroethane	#N/A	1.97	U	ug/L
307	Indeno(1,2,3-cd)pyrene	LW10D	0411051-03	11/9/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.985	U	ug/L
308	Nitrobenzene	LW10D	0411051-03	11/9/04	8270	Nitrobenzene	#N/A	0.985	U	ug/L
309	N-Nitrosodimethylamine	LW10D	0411051-03	11/9/04	8270	N-Nitrosodimethylamine	#N/A	0.985	U	ug/L
310	N-Nitrosodi-n-propylamine	LW10D	0411051-03	11/9/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.97	U	ug/L
311	N-Nitrosodiphenylamine	LW10D	0411051-03	11/9/04	8270	N-Nitrosodiphenylamine	#N/A	0.985	U	ug/L
312	Phenanthrene	LW10D	0411051-03	11/9/04	8270	Phenanthrene	#N/A	0.985	U	ug/L
313	Pyrene	LW10D	0411051-03	11/9/04	8270	Pyrene	#N/A	0.985	U	ug/L
314	Pyridine	LW10D	0411051-03	11/9/04	8270	Pyridine	#N/A	4.93	U	ug/L
315	Turbidity	LW10D	0411051-03	11/9/04	FIELD	Turbidity	#N/A	0		ntu
316	Pentachlorophenol	LW11D	0411066-08	11/11/04	8270	Pentachlorophenol	3	4.95	U	ug/L
317	Phenol	LW11D	0411066-08	11/11/04	8270	Phenol	13	1.98	U	ug/L
318	3-&4-Methylphenol	LW11D	0411066-08	11/11/04	8270	3-&4-Methylphenol	14	9.89	U	ug/L
319	Isophorone	LW11D	0411066-08	11/11/04	8270	Isophorone	15	0.989	U	ug/L
320	2,4-Dimethylphenol	LW11D	0411066-08	11/11/04	8270	2,4-Dimethylphenol	16	2.97	U	ug/L
321	Benzoic Acid	LW11D	0411066-08	11/11/04	8270	Benzoic Acid	17	19.8	U	ug/L
322	Naphthalene	LW11D	0411066-08	11/11/04	8270	Naphthalene	18	0.989	U	ug/L
323	2-Methylnaphthalene	LW11D	0411066-08	11/11/04	8270	2-Methylnaphthalene	19	0.989	U	ug/L
324	2,4,6-Trichlorophenol	LW11D	0411066-08	11/11/04	8270	2,4,6-Trichlorophenol	20	4.95	U	ug/L
325	2,4,5-Trichlorophenol	LW11D	0411066-08	11/11/04	8270	2,4,5-Trichlorophenol	21	4.95	U	ug/L
326	Acenaphthene	LW11D	0411066-08	11/11/04	8270	Acenaphthene	22	0.989	U	ug/L
327	Dibenzofuran	LW11D	0411066-08	11/11/04	8270	Dibenzofuran	23	0.989	U	ug/L
328	Fluorene	LW11D	0411066-08	11/11/04	8270	Fluorene	24	0.989	U	ug/L
329	Bis(2-ethylhexyl)phthalate	LW11D	0411066-08	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	**1.17**		ug/L
330	Acetone	LW11D	0411066-08	11/11/04	8260	Acetone	30	50	U	ug/L
331	Carbon disulfide	LW11D	0411066-08	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
332	2-Butanone	LW11D	0411066-08	11/11/04	8260	2-Butanone	32	10	U	ug/L
333	Benzene	LW11D	0411066-08	11/11/04	8260	Benzene	33	0.3	U	ug/L
334	Bromoform	LW11D	0411066-08	11/11/04	8260	Bromoform	34	1	U	ug/L
335	Toluene	LW11D	0411066-08	11/11/04	8260	Toluene	35	1	U	ug/L
336	Ethylbenzene	LW11D	0411066-08	11/11/04	8260	Ethylbenzene	36	1	U	ug/L
337	Styrene	LW11D	0411066-08	11/11/04	8260	Styrene	37	1	U	ug/L
338	m,p-Xylene	LW11D	0411066-08	11/11/04	8260	m,p-Xylene	38	2	U	ug/L
339	o-Xylene	LW11D	0411066-08	11/11/04	8260	o-Xylene	39	1	U	ug/L
340	1,3,5-Trimethylbenzene	LW11D	0411066-08	11/11/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
341	1,2,4-Trimethylbenzene	LW11D	0411066-08	11/11/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
342	Isopropylbenzene	LW11D	0411066-08	11/11/04	8260	Isopropylbenzene	42	1	U	ug/L
343	n-Propylbenzene	LW11D	0411066-08	11/11/04	8260	n-Propylbenzene	43	1	U	ug/L
344	tert-Butylbenzene	LW11D	0411066-08	11/11/04	8260	tert-Butylbenzene	44	1	U	ug/L
345	sec-Butylbenzene	LW11D	0411066-08	11/11/04	8260	sec-Butylbenzene	45	1	U	ug/L
346	4-Isopropyltoluene	LW11D	0411066-08	11/11/04	8260	4-Isopropyltoluene	46	1	U	ug/L
347	n-Butylbenzene	LW11D	0411066-08	11/11/04	8260	n-Butylbenzene	47	1	U	ug/L
348	Naphthalene	LW11D	0411066-08	11/11/04	8260	Naphthalene	48	1	U	ug/L
349	Methyl tert-butyl ether	LW11D	0411066-08	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
350	Arsenic	LW11D	0411066-08	11/11/04	6020	Arsenic	59	**0.00441**		ug/L
351	Chromium	LW11D	0411066-08	11/11/04	6010	Chromium	60	**0.0216**		mg/L
352	Copper	LW11D	0411066-08	11/11/04	6010	Copper	61	0.01	U	mg/L
353	Lead	LW11D	0411066-08	11/11/04	6020	Lead	62	**0.00301**		ug/L
354	Nickel	LW11D	0411066-08	11/11/04	6010	Nickel	63	0.005	U	mg/L
355	Zinc	LW11D	0411066-08	11/11/04	6010	Zinc	64	**0.0246**		mg/L
356	Total Dissolved Solids	LW11D	0411066-08	11/11/04	1601	Total Dissolved Solids	74	**333**		mg/L
357	Chloride	LW11D	0411066-08	11/11/04	9056	Chloride	75	**4.54**		mg/L
358	pH	LW11D	0411066-08	11/11/04	FIELD	pH	82	6.69		s.u.
359	Temperature	LW11D	0411066-08	11/11/04	FIELD	Temperature	83	13.6		c
360	Conductivity	LW11D	0411066-08	11/11/04	FIELD	Conductivity	84	463		us
361	Dissolved oxygen	LW11D	0411066-08	11/11/04	FIELD	Dissolved oxygen	85	1.34		mg/l
362	Selenium	LW11D	0411066-08	11/11/04	6010	Selenium	#N/A	0.02	U	mg/L
363	1,1,1,2-Tetrachloroethane	LW11D	0411066-08	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
364	1,1,1-Trichloroethane	LW11D	0411066-08	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
365	1,1,2,2-Tetrachloroethane	LW11D	0411066-08	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
366	1,1,2-Trichloroethane	LW11D	0411066-08	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
367	1,1-Dichloroethane	LW11D	0411066-08	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
368	1,1-Dichloroethene	LW11D	0411066-08	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
369	1,1-Dichloropropene	LW11D	0411066-08	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
370	1,2,3-Trichlorobenzene	LW11D	0411066-08	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
371	1,2,3-Trichloropropane	LW11D	0411066-08	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
372	1,2,4-Trichlorobenzene	LW11D	0411066-08	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
373	1,2-Dibromo-3-chloropropane	LW11D	0411066-08	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
374	1,2-Dibromoethane	LW11D	0411066-08	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
375	1,2-Dichlorobenzene	LW11D	0411066-08	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
376	1,2-Dichloroethane	LW11D	0411066-08	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
377	1,2-Dichloropropane	LW11D	0411066-08	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
378	1,3-Dichlorobenzene	LW11D	0411066-08	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
379	1,3-Dichloropropane	LW11D	0411066-08	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
380	1,4-Dichlorobenzene	LW11D	0411066-08	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
381	2,2-Dichloropropane	LW11D	0411066-08	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
382	2-Chlorotoluene	LW11D	0411066-08	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
383	2-Hexanone	LW11D	0411066-08	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
384	4-Chlorotoluene	LW11D	0411066-08	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
385	4-Methyl-2-pentanone	LW11D	0411066-08	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
386	Acrylonitrile	LW11D	0411066-08	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
387	Bromobenzene	LW11D	0411066-08	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
388	Bromochloromethane	LW11D	0411066-08	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
389	Bromodichloromethane	LW11D	0411066-08	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
390	Bromomethane	LW11D	0411066-08	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
391	Carbon tetrachloride	LW11D	0411066-08	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
392	Chlorobenzene	LW11D	0411066-08	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
393	Chloroethane	LW11D	0411066-08	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
394	Chloroform	LW11D	0411066-08	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
395	Chloromethane	LW11D	0411066-08	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
396	cis-1,2-Dichloroethene	LW11D	0411066-08	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
397	cis-1,3-Dichloropropene	LW11D	0411066-08	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
398	Dibromochloromethane	LW11D	0411066-08	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
399	Dibromomethane	LW11D	0411066-08	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
400	Dichlorodifluoromethane	LW11D	0411066-08	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
401	Hexachlorobutadiene	LW11D	0411066-08	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
402	Methylene chloride	LW11D	0411066-08	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
403	Tetrachloroethene	LW11D	0411066-08	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
404	trans-1,2-Dichloroethene	LW11D	0411066-08	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
405	trans-1,3-Dichloropropene	LW11D	0411066-08	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
406	Trichloroethene	LW11D	0411066-08	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
407	Trichlorofluoromethane	LW11D	0411066-08	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
408	Vinyl chloride	LW11D	0411066-08	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
409	1,2,4-Trichlorobenzene	LW11D	0411066-08	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	0.989	U	ug/L
410	1,2-Dichlorobenzene	LW11D	0411066-08	11/11/04	8270	1,2-Dichlorobenzene	#N/A	0.989	U	ug/L
411	1,3-Dichlorobenzene	LW11D	0411066-08	11/11/04	8270	1,3-Dichlorobenzene	#N/A	0.989	U	ug/L
412	1,4-Dichlorobenzene	LW11D	0411066-08	11/11/04	8270	1,4-Dichlorobenzene	#N/A	0.989	U	ug/L
413	2,3,4,6-Tetrachlorophenol	LW11D	0411066-08	11/11/04	8270	2,3,4,6-Tetrachlorophenol	#N/A	4.95	U	ug/L
414	2,3,5,6-Tetrachlorophenol	LW11D	0411066-08	11/11/04	8270	2,3,5,6-Tetrachlorophenol	#N/A	4.95	U	ug/L
415	2,4-Dichlorophenol	LW11D	0411066-08	11/11/04	8270	2,4-Dichlorophenol	#N/A	2.97	U	ug/L
416	2,4-Dinitrophenol	LW11D	0411066-08	11/11/04	8270	2,4-Dinitrophenol	#N/A	9.89	U	ug/L
417	2,4-Dinitrotoluene	LW11D	0411066-08	11/11/04	8270	2,4-Dinitrotoluene	#N/A	4.95	U	ug/L
418	2,6-Dinitrotoluene	LW11D	0411066-08	11/11/04	8270	2,6-Dinitrotoluene	#N/A	4.95	U	ug/L
419	2-Chloronaphthalene	LW11D	0411066-08	11/11/04	8270	2-Chloronaphthalene	#N/A	0.989	U	ug/L
420	2-Chlorophenol	LW11D	0411066-08	11/11/04	8270	2-Chlorophenol	#N/A	0.989	U	ug/L
421	2-Methylphenol	LW11D	0411066-08	11/11/04	8270	2-Methylphenol	#N/A	1.98	U	ug/L
422	2-Nitroaniline	LW11D	0411066-08	11/11/04	8270	2-Nitroaniline	#N/A	4.95	U	ug/L
423	2-Nitrophenol	LW11D	0411066-08	11/11/04	8270	2-Nitrophenol	#N/A	4.95	U	ug/L
424	3,3'-Dichlorobenzidine	LW11D	0411066-08	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	4.95	U	ug/L
425	3-Nitroaniline	LW11D	0411066-08	11/11/04	8270	3-Nitroaniline	#N/A	5.93	U	ug/L
426	4,6-Dinitro-2-methylphenol	LW11D	0411066-08	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.89	U	ug/L
427	4-Bromophenyl phenyl ether	LW11D	0411066-08	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	0.989	U	ug/L
428	4-Chloro-3-methylphenol	LW11D	0411066-08	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	1.98	U	ug/L
429	4-Chloroaniline	LW11D	0411066-08	11/11/04	8270	4-Chloroaniline	#N/A	2.97	U	ug/L
430	4-Chlorophenyl phenyl ether	LW11D	0411066-08	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.989	U	ug/L
431	4-Nitroaniline	LW11D	0411066-08	11/11/04	8270	4-Nitroaniline	#N/A	4.95	U	ug/L
432	4-Nitrophenol	LW11D	0411066-08	11/11/04	8270	4-Nitrophenol	#N/A	4.95	U	ug/L
433	Benz(a)anthracene	LW11D	0411066-08	11/11/04	8270	Benz(a)anthracene	#N/A	0.989	U	ug/L
434	Benzo(a)pyrene	LW11D	0411066-08	11/11/04	8270	Benzo(a)pyrene	#N/A	0.989	U	ug/L
435	Benzo(b)fluoranthene	LW11D	0411066-08	11/11/04	8270	Benzo(b)fluoranthene	#N/A	0.989	U	ug/L
436	Benzo(g,h,i)perylene	LW11D	0411066-08	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	0.989	U	ug/L
437	Benzo(k)fluoranthene	LW11D	0411066-08	11/11/04	8270	Benzo(k)fluoranthene	#N/A	0.989	U	ug/L
438	Benzyl Alcohol	LW11D	0411066-08	11/11/04	8270	Benzyl Alcohol	#N/A	4.95	U	ug/L

	A	B	C	D	E	F	G	H	I	J
439	Bis(2-chloroethoxy)methane	LW11D	0411066-08	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.989	U	ug/L
440	Bis(2-chloroethyl)ether	LW11D	0411066-08	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	1.98	U	ug/L
441	Bis(2-chloroisopropyl)ether	LW11D	0411066-08	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.989	U	ug/L
442	Butyl benzyl phthalate	LW11D	0411066-08	11/11/04	8270	Butyl benzyl phthalate	#N/A	0.989	U	ug/L
443	Carbazole	LW11D	0411066-08	11/11/04	8270	Carbazole	#N/A	0.989	U	ug/L
444	Chrysene	LW11D	0411066-08	11/11/04	8270	Chrysene	#N/A	0.989	U	ug/L
445	Dibenz(a,h)anthracene	LW11D	0411066-08	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	0.989	U	ug/L
446	Diethyl phthalate	LW11D	0411066-08	11/11/04	8270	Diethyl phthalate	#N/A	0.989	U	ug/L
447	Dimethyl phthalate	LW11D	0411066-08	11/11/04	8270	Dimethyl phthalate	#N/A	0.989	U	ug/L
448	Di-n-butyl phthalate	LW11D	0411066-08	11/11/04	8270	Di-n-butyl phthalate	#N/A	0.989	U	ug/L
449	Di-n-octyl phthalate	LW11D	0411066-08	11/11/04	8270	Di-n-octyl phthalate	#N/A	0.989	U	ug/L
450	Fluoranthene	LW11D	0411066-08	11/11/04	8270	Fluoranthene	#N/A	0.989	U	ug/L
451	Hexachlorobenzene	LW11D	0411066-08	11/11/04	8270	Hexachlorobenzene	#N/A	0.989	U	ug/L
452	Hexachlorobutadiene	LW11D	0411066-08	11/11/04	8270	Hexachlorobutadiene	#N/A	1.98	U	ug/L
453	Hexachlorocyclopentadiene	LW11D	0411066-08	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	4.95	U	ug/L
454	Hexachloroethane	LW11D	0411066-08	11/11/04	8270	Hexachloroethane	#N/A	1.98	U	ug/L
455	Indeno(1,2,3-cd)pyrene	LW11D	0411066-08	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.989	U	ug/L
456	Nitrobenzene	LW11D	0411066-08	11/11/04	8270	Nitrobenzene	#N/A	0.989	U	ug/L
457	N-Nitrosodimethylamine	LW11D	0411066-08	11/11/04	8270	N-Nitrosodimethylamine	#N/A	0.989	U	ug/L
458	N-Nitrosodi-n-propylamine	LW11D	0411066-08	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.98	U	ug/L
459	N-Nitrosodiphenylamine	LW11D	0411066-08	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	0.989	U	ug/L
460	Phenanthrene	LW11D	0411066-08	11/11/04	8270	Phenanthrene	#N/A	0.989	U	ug/L
461	Pyrene	LW11D	0411066-08	11/11/04	8270	Pyrene	#N/A	0.989	U	ug/L
462	Pyridine	LW11D	0411066-08	11/11/04	8270	Pyridine	#N/A	4.95	U	ug/L
463	Redox	LW11D	0411066-08	11/11/04	FIELD	Redox	#N/A	6.54		mV
464	Turbidity	LW11D	0411066-08	11/11/04	FIELD	Turbidity	#N/A	0		ntu
465	Ferrous Iron	LW11D	0411066-08	11/11/04	SM3500 FeD	Ferrous Iron	#N/A	**39**		mg/L
466	Pentachlorophenol	LW11S	0411066-09	11/11/04	8270	Pentachlorophenol	3	**184**		ug/L
467	Phenol	LW11S	0411066-09	11/11/04	8270	Phenol	13	1.94	U	ug/L
468	3-&4-Methylphenol	LW11S	0411066-09	11/11/04	8270	3-&4-Methylphenol	14	9.72	U	ug/L
469	Isophorone	LW11S	0411066-09	11/11/04	8270	Isophorone	15	0.972	U	ug/L
470	2,4-Dimethylphenol	LW11S	0411066-09	11/11/04	8270	2,4-Dimethylphenol	16	2.92	U	ug/L
471	Benzoic Acid	LW11S	0411066-09	11/11/04	8270	Benzoic Acid	17	19.4	U	ug/L
472	Naphthalene	LW11S	0411066-09	11/11/04	8270	Naphthalene	18	**2.24**		ug/L
473	2-Methylnaphthalene	LW11S	0411066-09	11/11/04	8270	2-Methylnaphthalene	19	**1.86**		ug/L
474	2,4,6-Trichlorophenol	LW11S	0411066-09	11/11/04	8270	2,4,6-Trichlorophenol	20	4.86	U	ug/L
475	2,4,5-Trichlorophenol	LW11S	0411066-09	11/11/04	8270	2,4,5-Trichlorophenol	21	4.86	U	ug/L
476	Acenaphthene	LW11S	0411066-09	11/11/04	8270	Acenaphthene	22	0.972	U	ug/L
477	Dibenzofuran	LW11S	0411066-09	11/11/04	8270	Dibenzofuran	23	0.972	U	ug/L
478	Fluorene	LW11S	0411066-09	11/11/04	8270	Fluorene	24	0.972	U	ug/L
479	Bis(2-ethylhexyl)phthalate	LW11S	0411066-09	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	0.972	U	ug/L
480	Acetone	LW11S	0411066-09	11/11/04	8260	Acetone	30	50	U	ug/L
481	Carbon disulfide	LW11S	0411066-09	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
482	2-Butanone	LW11S	0411066-09	11/11/04	8260	2-Butanone	32	10	U	ug/L
483	Benzene	LW11S	0411066-09	11/11/04	8260	Benzene	33	**2.38**		ug/L
484	Bromoform	LW11S	0411066-09	11/11/04	8260	Bromoform	34	1	U	ug/L
485	Toluene	LW11S	0411066-09	11/11/04	8260	Toluene	35	1	U	ug/L
486	Ethylbenzene	LW11S	0411066-09	11/11/04	8260	Ethylbenzene	36	**21.4**		ug/L
487	Styrene	LW11S	0411066-09	11/11/04	8260	Styrene	37	1	U	ug/L
488	m,p-Xylene	LW11S	0411066-09	11/11/04	8260	m,p-Xylene	38	**30.9**		ug/L
489	o-Xylene	LW11S	0411066-09	11/11/04	8260	o-Xylene	39	**44.2**		ug/L
490	1,3,5-Trimethylbenzene	LW11S	0411066-09	11/11/04	8260	1,3,5-Trimethylbenzene	40	**21.6**		ug/L
491	1,2,4-Trimethylbenzene	LW11S	0411066-09	11/11/04	8260	1,2,4-Trimethylbenzene	41	**91.2**		ug/L
492	Isopropylbenzene	LW11S	0411066-09	11/11/04	8260	Isopropylbenzene	42	**11.1**		ug/L
493	n-Propylbenzene	LW11S	0411066-09	11/11/04	8260	n-Propylbenzene	43	**14.1**		ug/L
494	tert-Butylbenzene	LW11S	0411066-09	11/11/04	8260	tert-Butylbenzene	44	**1.42**		ug/L
495	sec-Butylbenzene	LW11S	0411066-09	11/11/04	8260	sec-Butylbenzene	45	**5.12**		ug/L
496	4-Isopropyltoluene	LW11S	0411066-09	11/11/04	8260	4-Isopropyltoluene	46	**4.26**		ug/L
497	n-Butylbenzene	LW11S	0411066-09	11/11/04	8260	n-Butylbenzene	47	**2.94**		ug/L
498	Naphthalene	LW11S	0411066-09	11/11/04	8260	Naphthalene	48	**8.69**		ug/L
499	Methyl tert-butyl ether	LW11S	0411066-09	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
500	Arsenic	LW11S	0411066-09	11/11/04	6020	Arsenic	59	**0.00394**		ug/L
501	Chromium	LW11S	0411066-09	11/11/04	6010	Chromium	60	**0.0206**		mg/L
502	Copper	LW11S	0411066-09	11/11/04	6010	Copper	61	0.01	U	mg/L
503	Lead	LW11S	0411066-09	11/11/04	6020	Lead	62	**0.00104**		ug/L
504	Nickel	LW11S	0411066-09	11/11/04	6010	Nickel	63	0.005	U	mg/L
505	Zinc	LW11S	0411066-09	11/11/04	6010	Zinc	64	0.01	U	mg/L
506	Total Dissolved Solids	LW11S	0411066-09	11/11/04	1601	Total Dissolved Solids	74	**366**		mg/L
507	Chloride	LW11S	0411066-09	11/11/04	9056	Chloride	75	**4.83**		mg/L
508	pH	LW11S	0411066-09	11/11/04	FIELD	pH	82	6.66		s.u.
509	Temperature	LW11S	0411066-09	11/11/04	FIELD	Temperature	83	14.9		c
510	Conductivity	LW11S	0411066-09	11/11/04	FIELD	Conductivity	84	428		us
511	Dissolved oxygen	LW11S	0411066-09	11/11/04	FIELD	Dissolved oxygen	85	0.87		mg/l

	A	B	C	D	E	F	G	H	I	J
512	Selenium	LW11S	0411066-09	11/11/04	6010	Selenium	#N/A	0.02	U	mg/L
513	1,1,1,2-Tetrachloroethane	LW11S	0411066-09	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
514	1,1,1-Trichloroethane	LW11S	0411066-09	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
515	1,1,2,2-Tetrachloroethane	LW11S	0411066-09	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
516	1,1,2-Trichloroethane	LW11S	0411066-09	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
517	1,1-Dichloroethane	LW11S	0411066-09	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
518	1,1-Dichloroethene	LW11S	0411066-09	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
519	1,1-Dichloropropene	LW11S	0411066-09	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
520	1,2,3-Trichlorobenzene	LW11S	0411066-09	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
521	1,2,3-Trichloropropane	LW11S	0411066-09	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
522	1,2,4-Trichlorobenzene	LW11S	0411066-09	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
523	1,2-Dibromo-3-chloropropane	LW11S	0411066-09	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
524	1,2-Dibromoethane	LW11S	0411066-09	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
525	1,2-Dichlorobenzene	LW11S	0411066-09	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
526	1,2-Dichloroethane	LW11S	0411066-09	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
527	1,2-Dichloropropane	LW11S	0411066-09	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
528	1,3-Dichlorobenzene	LW11S	0411066-09	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
529	1,3-Dichloropropane	LW11S	0411066-09	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
530	1,4-Dichlorobenzene	LW11S	0411066-09	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
531	2,2-Dichloropropane	LW11S	0411066-09	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
532	2-Chlorotoluene	LW11S	0411066-09	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
533	2-Hexanone	LW11S	0411066-09	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
534	4-Chlorotoluene	LW11S	0411066-09	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
535	4-Methyl-2-pentanone	LW11S	0411066-09	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
536	Acrylonitrile	LW11S	0411066-09	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
537	Bromobenzene	LW11S	0411066-09	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
538	Bromochloromethane	LW11S	0411066-09	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
539	Bromodichloromethane	LW11S	0411066-09	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
540	Bromomethane	LW11S	0411066-09	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
541	Carbon tetrachloride	LW11S	0411066-09	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
542	Chlorobenzene	LW11S	0411066-09	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
543	Chloroethane	LW11S	0411066-09	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
544	Chloroform	LW11S	0411066-09	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
545	Chloromethane	LW11S	0411066-09	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
546	cis-1,2-Dichloroethene	LW11S	0411066-09	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
547	cis-1,3-Dichloropropene	LW11S	0411066-09	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
548	Dibromochloromethane	LW11S	0411066-09	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
549	Dibromomethane	LW11S	0411066-09	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
550	Dichlorodifluoromethane	LW11S	0411066-09	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
551	Hexachlorobutadiene	LW11S	0411066-09	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
552	Methylene chloride	LW11S	0411066-09	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
553	Tetrachloroethene	LW11S	0411066-09	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
554	trans-1,2-Dichloroethene	LW11S	0411066-09	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
555	trans-1,3-Dichloropropene	LW11S	0411066-09	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
556	Trichloroethene	LW11S	0411066-09	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
557	Trichlorofluoromethane	LW11S	0411066-09	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
558	Vinyl chloride	LW11S	0411066-09	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
559	1,2,4-Trichlorobenzene	LW11S	0411066-09	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	0.972	U	ug/L
560	1,2-Dichlorobenzene	LW11S	0411066-09	11/11/04	8270	1,2-Dichlorobenzene	#N/A	0.972	U	ug/L
561	1,3-Dichlorobenzene	LW11S	0411066-09	11/11/04	8270	1,3-Dichlorobenzene	#N/A	0.972	U	ug/L
562	1,4-Dichlorobenzene	LW11S	0411066-09	11/11/04	8270	1,4-Dichlorobenzene	#N/A	0.972	U	ug/L
563	2,3,4,6-Tetrachlorophenol	LW11S	0411066-09	11/11/04	8270	2,3,4,6-Tetrachlorophenol	#N/A	**14.6**		ug/L
564	2,3,5,6-Tetrachlorophenol	LW11S	0411066-09	11/11/04	8270	2,3,5,6-Tetrachlorophenol	#N/A	**92.3**		ug/L
565	2,4-Dichlorophenol	LW11S	0411066-09	11/11/04	8270	2,4-Dichlorophenol	#N/A	2.92	U	ug/L
566	2,4-Dinitrophenol	LW11S	0411066-09	11/11/04	8270	2,4-Dinitrophenol	#N/A	9.72	U	ug/L
567	2,4-Dinitrotoluene	LW11S	0411066-09	11/11/04	8270	2,4-Dinitrotoluene	#N/A	4.86	U	ug/L
568	2,6-Dinitrotoluene	LW11S	0411066-09	11/11/04	8270	2,6-Dinitrotoluene	#N/A	4.86	U	ug/L
569	2-Chloronaphthalene	LW11S	0411066-09	11/11/04	8270	2-Chloronaphthalene	#N/A	0.972	U	ug/L
570	2-Chlorophenol	LW11S	0411066-09	11/11/04	8270	2-Chlorophenol	#N/A	0.972	U	ug/L
571	2-Methylphenol	LW11S	0411066-09	11/11/04	8270	2-Methylphenol	#N/A	1.94	U	ug/L
572	2-Nitroaniline	LW11S	0411066-09	11/11/04	8270	2-Nitroaniline	#N/A	4.86	U	ug/L
573	2-Nitrophenol	LW11S	0411066-09	11/11/04	8270	2-Nitrophenol	#N/A	4.86	U	ug/L
574	3,3'-Dichlorobenzidine	LW11S	0411066-09	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	4.86	U	ug/L
575	3-Nitroaniline	LW11S	0411066-09	11/11/04	8270	3-Nitroaniline	#N/A	5.83	U	ug/L
576	4,6-Dinitro-2-methylphenol	LW11S	0411066-09	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.72	U	ug/L
577	4-Bromophenyl phenyl ether	LW11S	0411066-09	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	0.972	U	ug/L
578	4-Chloro-3-methylphenol	LW11S	0411066-09	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	1.94	U	ug/L
579	4-Chloroaniline	LW11S	0411066-09	11/11/04	8270	4-Chloroaniline	#N/A	2.92	U	ug/L
580	4-Chlorophenyl phenyl ether	LW11S	0411066-09	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.972	U	ug/L
581	4-Nitroaniline	LW11S	0411066-09	11/11/04	8270	4-Nitroaniline	#N/A	4.86	U	ug/L
582	4-Nitrophenol	LW11S	0411066-09	11/11/04	8270	4-Nitrophenol	#N/A	4.86	U	ug/L
583	Benz(a)anthracene	LW11S	0411066-09	11/11/04	8270	Benz(a)anthracene	#N/A	0.972	U	ug/L
584	Benzo(a)pyrene	LW11S	0411066-09	11/11/04	8270	Benzo(a)pyrene	#N/A	0.972	U	ug/L

	A	B	C	D	E	F	G	H	I	J
585	Benzo(b)fluoranthene	LW11S	0411066-09	11/11/04	8270	Benzo(b)fluoranthene	#N/A	0.972	U	ug/L
586	Benzo(g,h,i)perylene	LW11S	0411066-09	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	0.972	U	ug/L
587	Benzo(k)fluoranthene	LW11S	0411066-09	11/11/04	8270	Benzo(k)fluoranthene	#N/A	0.972	U	ug/L
588	Benzyl Alcohol	LW11S	0411066-09	11/11/04	8270	Benzyl Alcohol	#N/A	4.86	U	ug/L
589	Bis(2-chloroethoxy)methane	LW11S	0411066-09	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.972	U	ug/L
590	Bis(2-chloroethyl)ether	LW11S	0411066-09	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	1.94	U	ug/L
591	Bis(2-chloroisopropyl)ether	LW11S	0411066-09	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.972	U	ug/L
592	Butyl benzyl phthalate	LW11S	0411066-09	11/11/04	8270	Butyl benzyl phthalate	#N/A	0.972	U	ug/L
593	Carbazole	LW11S	0411066-09	11/11/04	8270	Carbazole	#N/A	0.972	U	ug/L
594	Chrysene	LW11S	0411066-09	11/11/04	8270	Chrysene	#N/A	0.972	U	ug/L
595	Dibenz(a,h)anthracene	LW11S	0411066-09	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	0.972	U	ug/L
596	Diethyl phthalate	LW11S	0411066-09	11/11/04	8270	Diethyl phthalate	#N/A	0.972	U	ug/L
597	Dimethyl phthalate	LW11S	0411066-09	11/11/04	8270	Dimethyl phthalate	#N/A	0.972	U	ug/L
598	Di-n-butyl phthalate	LW11S	0411066-09	11/11/04	8270	Di-n-butyl phthalate	#N/A	0.972	U	ug/L
599	Di-n-octyl phthalate	LW11S	0411066-09	11/11/04	8270	Di-n-octyl phthalate	#N/A	0.972	U	ug/L
600	Fluoranthene	LW11S	0411066-09	11/11/04	8270	Fluoranthene	#N/A	0.972	U	ug/L
601	Hexachlorobenzene	LW11S	0411066-09	11/11/04	8270	Hexachlorobenzene	#N/A	0.972	U	ug/L
602	Hexachlorobutadiene	LW11S	0411066-09	11/11/04	8270	Hexachlorobutadiene	#N/A	1.94	U	ug/L
603	Hexachlorocyclopentadiene	LW11S	0411066-09	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	4.86	U	ug/L
604	Hexachloroethane	LW11S	0411066-09	11/11/04	8270	Hexachloroethane	#N/A	1.94	U	ug/L
605	Indeno(1,2,3-cd)pyrene	LW11S	0411066-09	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.972	U	ug/L
606	Nitrobenzene	LW11S	0411066-09	11/11/04	8270	Nitrobenzene	#N/A	0.972	U	ug/L
607	N-Nitrosodimethylamine	LW11S	0411066-09	11/11/04	8270	N-Nitrosodimethylamine	#N/A	0.972	U	ug/L
608	N-Nitrosodi-n-propylamine	LW11S	0411066-09	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.94	U	ug/L
609	N-Nitrosodiphenylamine	LW11S	0411066-09	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	0.972	U	ug/L
610	Phenanthrene	LW11S	0411066-09	11/11/04	8270	Phenanthrene	#N/A	0.972	U	ug/L
611	Pyrene	LW11S	0411066-09	11/11/04	8270	Pyrene	#N/A	0.972	U	ug/L
612	Pyridine	LW11S	0411066-09	11/11/04	8270	Pyridine	#N/A	4.86	U	ug/L
613	Redox	LW11S	0411066-09	11/11/04	FIELD	Redox	#N/A	6.79		mV
614	Turbidity	LW11S	0411066-09	11/11/04	FIELD	Turbidity	#N/A	0		ntu
615	Ferrous Iron	LW11S	0411066-09	11/11/04	SM3500 FeD	Ferrous Iron	#N/A	**38**		mg/L
616	Pentachlorophenol	LW13S	0411066-16	11/11/04	8270	Pentachlorophenol	3	4.81	U	ug/L
617	Phenol	LW13S	0411066-16	11/11/04	8270	Phenol	13	1.92	U	ug/L
618	3-&4-Methylphenol	LW13S	0411066-16	11/11/04	8270	3-&4-Methylphenol	14	9.62	U	ug/L
619	Isophorone	LW13S	0411066-16	11/11/04	8270	Isophorone	15	0.962	U	ug/L
620	2,4-Dimethylphenol	LW13S	0411066-16	11/11/04	8270	2,4-Dimethylphenol	16	2.89	U	ug/L
621	Benzoic Acid	LW13S	0411066-16	11/11/04	8270	Benzoic Acid	17	19.2	U	ug/L
622	Naphthalene	LW13S	0411066-16	11/11/04	8270	Naphthalene	18	0.962	U	ug/L
623	2-Methylnaphthalene	LW13S	0411066-16	11/11/04	8270	2-Methylnaphthalene	19	0.962	U	ug/L
624	2,4,6-Trichlorophenol	LW13S	0411066-16	11/11/04	8270	2,4,6-Trichlorophenol	20	4.81	U	ug/L
625	2,4,5-Trichlorophenol	LW13S	0411066-16	11/11/04	8270	2,4,5-Trichlorophenol	21	4.81	U	ug/L
626	Acenaphthene	LW13S	0411066-16	11/11/04	8270	Acenaphthene	22	0.962	U	ug/L
627	Dibenzofuran	LW13S	0411066-16	11/11/04	8270	Dibenzofuran	23	0.962	U	ug/L
628	Fluorene	LW13S	0411066-16	11/11/04	8270	Fluorene	24	0.962	U	ug/L
629	Bis(2-ethylhexyl)phthalate	LW13S	0411066-16	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	0.962	U	ug/L
630	Acetone	LW13S	0411066-16	11/11/04	8260	Acetone	30	50	U	ug/L
631	Carbon disulfide	LW13S	0411066-16	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
632	2-Butanone	LW13S	0411066-16	11/11/04	8260	2-Butanone	32	10	U	ug/L
633	Benzene	LW13S	0411066-16	11/11/04	8260	Benzene	33	0.3	U	ug/L
634	Bromoform	LW13S	0411066-16	11/11/04	8260	Bromoform	34	1	U	ug/L
635	Toluene	LW13S	0411066-16	11/11/04	8260	Toluene	35	1	U	ug/L
636	Ethylbenzene	LW13S	0411066-16	11/11/04	8260	Ethylbenzene	36	1	U	ug/L
637	Styrene	LW13S	0411066-16	11/11/04	8260	Styrene	37	1	U	ug/L
638	m,p-Xylene	LW13S	0411066-16	11/11/04	8260	m,p-Xylene	38	2	U	ug/L
639	o-Xylene	LW13S	0411066-16	11/11/04	8260	o-Xylene	39	1	U	ug/L
640	1,3,5-Trimethylbenzene	LW13S	0411066-16	11/11/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
641	1,2,4-Trimethylbenzene	LW13S	0411066-16	11/11/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
642	Isopropylbenzene	LW13S	0411066-16	11/11/04	8260	Isopropylbenzene	42	1	U	ug/L
643	n-Propylbenzene	LW13S	0411066-16	11/11/04	8260	n-Propylbenzene	43	1	U	ug/L
644	tert-Butylbenzene	LW13S	0411066-16	11/11/04	8260	tert-Butylbenzene	44	1	U	ug/L
645	sec-Butylbenzene	LW13S	0411066-16	11/11/04	8260	sec-Butylbenzene	45	1	U	ug/L
646	4-Isopropyltoluene	LW13S	0411066-16	11/11/04	8260	4-Isopropyltoluene	46	1	U	ug/L
647	n-Butylbenzene	LW13S	0411066-16	11/11/04	8260	n-Butylbenzene	47	1	U	ug/L
648	Naphthalene	LW13S	0411066-16	11/11/04	8260	Naphthalene	48	1	U	ug/L
649	Methyl tert-butyl ether	LW13S	0411066-16	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
650	Diesel Range Hydrocarbons	LW13S	0411066-16	11/11/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	0.244	U	mg/L
651	Lube Oil	LW13S	0411066-16	11/11/04	NWTPH-Dx	Lube Oil	54	0.489	U	mg/L
652	Arsenic	LW13S	0411066-16	11/11/04	6020	Arsenic	59	0.001	U	ug/L
653	Chromium	LW13S	0411066-16	11/11/04	6010	Chromium	60	**0.0235**		mg/L
654	Copper	LW13S	0411066-16	11/11/04	6010	Copper	61	**0.0609**		mg/L
655	Lead	LW13S	0411066-16	11/11/04	6020	Lead	62	**0.00029**		ug/L
656	Nickel	LW13S	0411066-16	11/11/04	6010	Nickel	63	**0.0853**		mg/L
657	Zinc	LW13S	0411066-16	11/11/04	6010	Zinc	64	0.01	U	mg/L

	A	B	C	D	E	F	G	H	I	J
658	Total Dissolved Solids	LW13S	0411066-16	11/11/04	1601	Total Dissolved Solids	74	**229**		mg/L
659	Chloride	LW13S	0411066-16	11/11/04	9056	Chloride	75	**10.6**		mg/L
660	pH	LW13S	0411066-16	11/11/04	FIELD	pH	82	6.51		s.u.
661	Temperature	LW13S	0411066-16	11/11/04	FIELD	Temperature	83	15.4		c
662	Conductivity	LW13S	0411066-16	11/11/04	FIELD	Conductivity	84	192		us
663	Dissolved oxygen	LW13S	0411066-16	11/11/04	FIELD	Dissolved oxygen	85	2.85		mg/l
664	Selenium	LW13S	0411066-16	11/11/04	6010	Selenium	#N/A	0.02	U	mg/L
665	1,1,1,2-Tetrachloroethane	LW13S	0411066-16	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
666	1,1,1-Trichloroethane	LW13S	0411066-16	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
667	1,1,2,2-Tetrachloroethane	LW13S	0411066-16	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
668	1,1,2-Trichloroethane	LW13S	0411066-16	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
669	1,1-Dichloroethane	LW13S	0411066-16	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
670	1,1-Dichloroethene	LW13S	0411066-16	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
671	1,1-Dichloropropene	LW13S	0411066-16	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
672	1,2,3-Trichlorobenzene	LW13S	0411066-16	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
673	1,2,3-Trichloropropane	LW13S	0411066-16	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
674	1,2,4-Trichlorobenzene	LW13S	0411066-16	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
675	1,2-Dibromo-3-chloropropane	LW13S	0411066-16	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
676	1,2-Dibromoethane	LW13S	0411066-16	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
677	1,2-Dichlorobenzene	LW13S	0411066-16	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
678	1,2-Dichloroethane	LW13S	0411066-16	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
679	1,2-Dichloropropane	LW13S	0411066-16	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
680	1,3-Dichlorobenzene	LW13S	0411066-16	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
681	1,3-Dichloropropane	LW13S	0411066-16	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
682	1,4-Dichlorobenzene	LW13S	0411066-16	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
683	2,2-Dichloropropane	LW13S	0411066-16	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
684	2-Chlorotoluene	LW13S	0411066-16	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
685	2-Hexanone	LW13S	0411066-16	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
686	4-Chlorotoluene	LW13S	0411066-16	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
687	4-Methyl-2-pentanone	LW13S	0411066-16	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
688	Acrylonitrile	LW13S	0411066-16	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
689	Bromobenzene	LW13S	0411066-16	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
690	Bromochloromethane	LW13S	0411066-16	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
691	Bromodichloromethane	LW13S	0411066-16	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
692	Bromomethane	LW13S	0411066-16	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
693	Carbon tetrachloride	LW13S	0411066-16	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
694	Chlorobenzene	LW13S	0411066-16	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
695	Chloroethane	LW13S	0411066-16	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
696	Chloroform	LW13S	0411066-16	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
697	Chloromethane	LW13S	0411066-16	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
698	cis-1,2-Dichloroethene	LW13S	0411066-16	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
699	cis-1,3-Dichloropropene	LW13S	0411066-16	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
700	Dibromochloromethane	LW13S	0411066-16	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
701	Dibromomethane	LW13S	0411066-16	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
702	Dichlorodifluoromethane	LW13S	0411066-16	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
703	Hexachlorobutadiene	LW13S	0411066-16	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
704	Methylene chloride	LW13S	0411066-16	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
705	Tetrachloroethene	LW13S	0411066-16	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
706	trans-1,2-Dichloroethene	LW13S	0411066-16	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
707	trans-1,3-Dichloropropene	LW13S	0411066-16	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
708	Trichloroethene	LW13S	0411066-16	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
709	Trichlorofluoromethane	LW13S	0411066-16	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
710	Vinyl chloride	LW13S	0411066-16	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
711	1,2,4-Trichlorobenzene	LW13S	0411066-16	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	0.962	U	ug/L
712	1,2-Dichlorobenzene	LW13S	0411066-16	11/11/04	8270	1,2-Dichlorobenzene	#N/A	0.962	U	ug/L
713	1,3-Dichlorobenzene	LW13S	0411066-16	11/11/04	8270	1,3-Dichlorobenzene	#N/A	0.962	U	ug/L
714	1,4-Dichlorobenzene	LW13S	0411066-16	11/11/04	8270	1,4-Dichlorobenzene	#N/A	0.962	U	ug/L
715	2,3,4,6-Tetrachlorophenol	LW13S	0411066-16	11/11/04	8270	2,3,4,6-Tetrachlorophenol	#N/A	4.81	U	ug/L
716	2,3,5,6-Tetrachlorophenol	LW13S	0411066-16	11/11/04	8270	2,3,5,6-Tetrachlorophenol	#N/A	4.81	U	ug/L
717	2,4-Dichlorophenol	LW13S	0411066-16	11/11/04	8270	2,4-Dichlorophenol	#N/A	2.89	U	ug/L
718	2,4-Dinitrophenol	LW13S	0411066-16	11/11/04	8270	2,4-Dinitrophenol	#N/A	9.62	U	ug/L
719	2,4-Dinitrotoluene	LW13S	0411066-16	11/11/04	8270	2,4-Dinitrotoluene	#N/A	4.81	U	ug/L
720	2,6-Dinitrotoluene	LW13S	0411066-16	11/11/04	8270	2,6-Dinitrotoluene	#N/A	4.81	U	ug/L
721	2-Chloronaphthalene	LW13S	0411066-16	11/11/04	8270	2-Chloronaphthalene	#N/A	0.962	U	ug/L
722	2-Chlorophenol	LW13S	0411066-16	11/11/04	8270	2-Chlorophenol	#N/A	0.962	U	ug/L
723	2-Methylphenol	LW13S	0411066-16	11/11/04	8270	2-Methylphenol	#N/A	1.92	U	ug/L
724	2-Nitroaniline	LW13S	0411066-16	11/11/04	8270	2-Nitroaniline	#N/A	4.81	U	ug/L
725	2-Nitrophenol	LW13S	0411066-16	11/11/04	8270	2-Nitrophenol	#N/A	4.81	U	ug/L
726	3,3'-Dichlorobenzidine	LW13S	0411066-16	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	4.81	U	ug/L
727	3-Nitroaniline	LW13S	0411066-16	11/11/04	8270	3-Nitroaniline	#N/A	5.77	U	ug/L
728	4,6-Dinitro-2-methylphenol	LW13S	0411066-16	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.62	U	ug/L
729	4-Bromophenyl phenyl ether	LW13S	0411066-16	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	0.962	U	ug/L
730	4-Chloro-3-methylphenol	LW13S	0411066-16	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	1.92	U	ug/L

	A	B	C	D	E	F	G	H	I	J
731	4-Chloroaniline	LW13S	0411066-16	11/11/04	8270	4-Chloroaniline	#N/A	2.89	U	ug/L
732	4-Chlorophenyl phenyl ether	LW13S	0411066-16	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.962	U	ug/L
733	4-Nitroaniline	LW13S	0411066-16	11/11/04	8270	4-Nitroaniline	#N/A	4.81	U	ug/L
734	4-Nitrophenol	LW13S	0411066-16	11/11/04	8270	4-Nitrophenol	#N/A	4.81	U	ug/L
735	Benz(a)anthracene	LW13S	0411066-16	11/11/04	8270	Benz(a)anthracene	#N/A	0.962	U	ug/L
736	Benzo(a)pyrene	LW13S	0411066-16	11/11/04	8270	Benzo(a)pyrene	#N/A	0.962	U	ug/L
737	Benzo(b)fluoranthene	LW13S	0411066-16	11/11/04	8270	Benzo(b)fluoranthene	#N/A	0.962	U	ug/L
738	Benzo(g,h,i)perylene	LW13S	0411066-16	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	0.962	U	ug/L
739	Benzo(k)fluoranthene	LW13S	0411066-16	11/11/04	8270	Benzo(k)fluoranthene	#N/A	0.962	U	ug/L
740	Benzyl Alcohol	LW13S	0411066-16	11/11/04	8270	Benzyl Alcohol	#N/A	4.81	U	ug/L
741	Bis(2-chloroethoxy)methane	LW13S	0411066-16	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.962	U	ug/L
742	Bis(2-chloroethyl)ether	LW13S	0411066-16	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	1.92	U	ug/L
743	Bis(2-chloroisopropyl)ether	LW13S	0411066-16	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.962	U	ug/L
744	Butyl benzyl phthalate	LW13S	0411066-16	11/11/04	8270	Butyl benzyl phthalate	#N/A	0.962	U	ug/L
745	Carbazole	LW13S	0411066-16	11/11/04	8270	Carbazole	#N/A	0.962	U	ug/L
746	Chrysene	LW13S	0411066-16	11/11/04	8270	Chrysene	#N/A	0.962	U	ug/L
747	Dibenz(a,h)anthracene	LW13S	0411066-16	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	0.962	U	ug/L
748	Diethyl phthalate	LW13S	0411066-16	11/11/04	8270	Diethyl phthalate	#N/A	0.962	U	ug/L
749	Dimethyl phthalate	LW13S	0411066-16	11/11/04	8270	Dimethyl phthalate	#N/A	0.962	U	ug/L
750	Di-n-butyl phthalate	LW13S	0411066-16	11/11/04	8270	Di-n-butyl phthalate	#N/A	**1.39**		ug/L
751	Di-n-octyl phthalate	LW13S	0411066-16	11/11/04	8270	Di-n-octyl phthalate	#N/A	0.962	U	ug/L
752	Fluoranthene	LW13S	0411066-16	11/11/04	8270	Fluoranthene	#N/A	0.962	U	ug/L
753	Hexachlorobenzene	LW13S	0411066-16	11/11/04	8270	Hexachlorobenzene	#N/A	0.962	U	ug/L
754	Hexachlorobutadiene	LW13S	0411066-16	11/11/04	8270	Hexachlorobutadiene	#N/A	1.92	U	ug/L
755	Hexachlorocyclopentadiene	LW13S	0411066-16	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	4.81	U	ug/L
756	Hexachloroethane	LW13S	0411066-16	11/11/04	8270	Hexachloroethane	#N/A	1.92	U	ug/L
757	Indeno(1,2,3-cd)pyrene	LW13S	0411066-16	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.962	U	ug/L
758	Nitrobenzene	LW13S	0411066-16	11/11/04	8270	Nitrobenzene	#N/A	0.962	U	ug/L
759	N-Nitrosodimethylamine	LW13S	0411066-16	11/11/04	8270	N-Nitrosodimethylamine	#N/A	0.962	U	ug/L
760	N-Nitrosodi-n-propylamine	LW13S	0411066-16	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.92	U	ug/L
761	N-Nitrosodiphenylamine	LW13S	0411066-16	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	0.962	U	ug/L
762	Phenanthrene	LW13S	0411066-16	11/11/04	8270	Phenanthrene	#N/A	0.962	U	ug/L
763	Pyrene	LW13S	0411066-16	11/11/04	8270	Pyrene	#N/A	0.962	U	ug/L
764	Pyridine	LW13S	0411066-16	11/11/04	8270	Pyridine	#N/A	4.81	U	ug/L
765	Redox	LW13S	0411066-16	11/11/04	FIELD	Redox	#N/A	9.98		mV
766	Turbidity	LW13S	0411066-16	11/11/04	FIELD	Turbidity	#N/A	0		ntu
767	Ferrous Iron	LW13S	0411066-16	11/11/04	SM3500 FeD	Ferrous Iron	#N/A	**1.18**		mg/L
768	Pentachlorophenol	LW17D	0411051-08	11/9/04	8270SIM	Pentachlorophenol	25	0.495	U	ug/L
769	Diesel Range Hydrocarbons	LW17D	0411051-08	11/9/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**2.74**		mg/L
770	Lube Oil	LW17D	0411051-08	11/9/04	NWTPH-Dx	Lube Oil	54	0.489	U	mg/L
771	Gasoline Range Hydrocarbons	LW17D	0411051-08	11/9/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**3.83**		ug/L
772	pH	LW17D	0411051-08	11/9/04	FIELD	pH	82	6.59		s.u.
773	Temperature	LW17D	0411051-08	11/9/04	FIELD	Temperature	83	14.4		c
774	Conductivity	LW17D	0411051-08	11/9/04	FIELD	Conductivity	84	399		us
775	Dissolved oxygen	LW17D	0411051-08	11/9/04	FIELD	Dissolved oxygen	85	1.72		mg/l
776	Turbidity	LW17D	0411051-08	11/9/04	FIELD	Turbidity	#N/A	0		ntu
777	Pentachlorophenol	LW18D	0411051-05	11/9/04	8270SIM	Pentachlorophenol	25	0.5	U	ug/L
778	Diesel Range Hydrocarbons	LW18D	0411051-05	11/9/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**2.32**		mg/L
779	Lube Oil	LW18D	0411051-05	11/9/04	NWTPH-Dx	Lube Oil	54	0.491	U	mg/L
780	Gasoline Range Hydrocarbons	LW18D	0411051-05	11/9/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**1.79**		ug/L
781	pH	LW18D	0411051-05	11/9/04	FIELD	pH	82	6.56		s.u.
782	Temperature	LW18D	0411051-05	11/9/04	FIELD	Temperature	83	15		c
783	Conductivity	LW18D	0411051-05	11/9/04	FIELD	Conductivity	84	369		us
784	Dissolved oxygen	LW18D	0411051-05	11/9/04	FIELD	Dissolved oxygen	85	1.6		mg/l
785	Turbidity	LW18D	0411051-05	11/9/04	FIELD	Turbidity	#N/A	0		ntu
786	Pentachlorophenol	LW19S	0411059-01	11/10/04	8270	Pentachlorophenol	3	4.88	U	ug/L
787	Phenol	LW19S	0411059-01	11/10/04	8270	Phenol	13	1.95	U	ug/L
788	3-&4-Methylphenol	LW19S	0411059-01	11/10/04	8270	3-&4-Methylphenol	14	9.77	U	ug/L
789	Isophorone	LW19S	0411059-01	11/10/04	8270	Isophorone	15	0.977	U	ug/L
790	2,4-Dimethylphenol	LW19S	0411059-01	11/10/04	8270	2,4-Dimethylphenol	16	2.93	U	ug/L
791	Benzoic Acid	LW19S	0411059-01	11/10/04	8270	Benzoic Acid	17	19.5	U	ug/L
792	Naphthalene	LW19S	0411059-01	11/10/04	8270	Naphthalene	18	0.977	U	ug/L
793	2-Methylnaphthalene	LW19S	0411059-01	11/10/04	8270	2-Methylnaphthalene	19	0.977	U	ug/L
794	2,4,6-Trichlorophenol	LW19S	0411059-01	11/10/04	8270	2,4,6-Trichlorophenol	20	4.88	U	ug/L
795	2,4,5-Trichlorophenol	LW19S	0411059-01	11/10/04	8270	2,4,5-Trichlorophenol	21	4.88	U	ug/L
796	Acenaphthene	LW19S	0411059-01	11/10/04	8270	Acenaphthene	22	**1.04**		ug/L
797	Dibenzofuran	LW19S	0411059-01	11/10/04	8270	Dibenzofuran	23	**1.33**		ug/L
798	Fluorene	LW19S	0411059-01	11/10/04	8270	Fluorene	24	**3.41**		ug/L
799	Bis(2-ethylhexyl)phthalate	LW19S	0411059-01	11/10/04	8270	Bis(2-ethylhexyl)phthalate	26	0.977	U	ug/L
800	Acetone	LW19S	0411059-01	11/10/04	8260	Acetone	30	50	U	ug/L
801	Carbon disulfide	LW19S	0411059-01	11/10/04	8260	Carbon disulfide	31	2	U	ug/L
802	2-Butanone	LW19S	0411059-01	11/10/04	8260	2-Butanone	32	10	U	ug/L
803	Benzene	LW19S	0411059-01	11/10/04	8260	Benzene	33	0.3	U	ug/L

	A	B	C	D	E	F	G	H	I	J
804	Bromoform	LW19S	0411059-01	11/10/04	8260	Bromoform	34	1	U	ug/L
805	Toluene	LW19S	0411059-01	11/10/04	8260	Toluene	35	1	U	ug/L
806	Ethylbenzene	LW19S	0411059-01	11/10/04	8260	Ethylbenzene	36	1	U	ug/L
807	Styrene	LW19S	0411059-01	11/10/04	8260	Styrene	37	1	U	ug/L
808	m,p-Xylene	LW19S	0411059-01	11/10/04	8260	m,p-Xylene	38	2	U	ug/L
809	o-Xylene	LW19S	0411059-01	11/10/04	8260	o-Xylene	39	**1.23**		ug/L
810	1,3,5-Trimethylbenzene	LW19S	0411059-01	11/10/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
811	1,2,4-Trimethylbenzene	LW19S	0411059-01	11/10/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
812	Isopropylbenzene	LW19S	0411059-01	11/10/04	8260	Isopropylbenzene	42	**5.89**		ug/L
813	n-Propylbenzene	LW19S	0411059-01	11/10/04	8260	n-Propylbenzene	43	**9.38**		ug/L
814	tert-Butylbenzene	LW19S	0411059-01	11/10/04	8260	tert-Butylbenzene	44	1	U	ug/L
815	sec-Butylbenzene	LW19S	0411059-01	11/10/04	8260	sec-Butylbenzene	45	**3.65**		ug/L
816	4-Isopropyltoluene	LW19S	0411059-01	11/10/04	8260	4-Isopropyltoluene	46	1	U	ug/L
817	n-Butylbenzene	LW19S	0411059-01	11/10/04	8260	n-Butylbenzene	47	**3**		ug/L
818	Naphthalene	LW19S	0411059-01	11/10/04	8260	Naphthalene	48	1	U	ug/L
819	Methyl tert-butyl ether	LW19S	0411059-01	11/10/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
820	Diesel Range Hydrocarbons	LW19S	0411059-01	11/10/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**5.32**		mg/L
821	Lube Oil	LW19S	0411059-01	11/10/04	NWTPH-Dx	Lube Oil	54	**1.66**		mg/L
822	Gasoline Range Hydrocarbons	LW19S	0411059-01	11/10/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**1.3**		ug/L
823	Arsenic	LW19S	0411059-01	11/10/04	6020	Arsenic	59	**0.0406**		ug/L
824	Chromium	LW19S	0411059-01	11/10/04	6010	Chromium	60	**0.0149**		mg/L
825	Copper	LW19S	0411059-01	11/10/04	6010	Copper	61	0.01	U	mg/L
826	Lead	LW19S	0411059-01	11/10/04	6020	Lead	62	**0.00045**		ug/L
827	Nickel	LW19S	0411059-01	11/10/04	6010	Nickel	63	0.005	U	mg/L
828	Zinc	LW19S	0411059-01	11/10/04	6010	Zinc	64	0.01	U	mg/L
829	Total Dissolved Solids	LW19S	0411059-01	11/10/04	1601	Total Dissolved Solids	74	**191**		mg/L
830	Chloride	LW19S	0411059-01	11/10/04	9056	Chloride	75	**0.32**		mg/L
831	pH	LW19S	0411059-01	11/10/04	FIELD	pH	82	6.86		s.u.
832	Temperature	LW19S	0411059-01	11/10/04	FIELD	Temperature	83	14		c
833	Conductivity	LW19S	0411059-01	11/10/04	FIELD	Conductivity	84	582		us
834	Dissolved oxygen	LW19S	0411059-01	11/10/04	FIELD	Dissolved oxygen	85	1.79		mg/l
835	Naphthalene	LW19S	0411059-01	11/10/04	8270SIM	Naphthalene	119	**0.515**		ug/L
836	Acenaphthylene	LW19S	0411059-01	11/10/04	8270SIM	Acenaphthylene	121	**0.283**		ug/L
837	Acenaphthene	LW19S	0411059-01	11/10/04	8270SIM	Acenaphthene	122	**0.989**		ug/L
838	Fluorene	LW19S	0411059-01	11/10/04	8270SIM	Fluorene	123	**3.29**		ug/L
839	Anthracene	LW19S	0411059-01	11/10/04	8270SIM	Anthracene	124	**0.0807**		ug/L
840	1,1,1,2-Tetrachloroethane	LW19S	0411059-01	11/10/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
841	1,1,1-Trichloroethane	LW19S	0411059-01	11/10/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
842	1,1,2,2-Tetrachloroethane	LW19S	0411059-01	11/10/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
843	1,1,2-Trichloroethane	LW19S	0411059-01	11/10/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
844	1,1-Dichloroethane	LW19S	0411059-01	11/10/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
845	1,1-Dichloroethene	LW19S	0411059-01	11/10/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
846	1,1-Dichloropropene	LW19S	0411059-01	11/10/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
847	1,2,3-Trichlorobenzene	LW19S	0411059-01	11/10/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
848	1,2,3-Trichloropropane	LW19S	0411059-01	11/10/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
849	1,2,4-Trichlorobenzene	LW19S	0411059-01	11/10/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
850	1,2-Dibromo-3-chloropropane	LW19S	0411059-01	11/10/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
851	1,2-Dibromoethane	LW19S	0411059-01	11/10/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
852	1,2-Dichlorobenzene	LW19S	0411059-01	11/10/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
853	1,2-Dichloroethane	LW19S	0411059-01	11/10/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
854	1,2-Dichloropropane	LW19S	0411059-01	11/10/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
855	1,3-Dichlorobenzene	LW19S	0411059-01	11/10/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
856	1,3-Dichloropropane	LW19S	0411059-01	11/10/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
857	1,4-Dichlorobenzene	LW19S	0411059-01	11/10/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
858	2,2-Dichloropropane	LW19S	0411059-01	11/10/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
859	2-Chlorotoluene	LW19S	0411059-01	11/10/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
860	2-Hexanone	LW19S	0411059-01	11/10/04	8260	2-Hexanone	#N/A	10	U	ug/L
861	4-Chlorotoluene	LW19S	0411059-01	11/10/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
862	4-Methyl-2-pentanone	LW19S	0411059-01	11/10/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
863	Acrylonitrile	LW19S	0411059-01	11/10/04	8260	Acrylonitrile	#N/A	5	U	ug/L
864	Bromobenzene	LW19S	0411059-01	11/10/04	8260	Bromobenzene	#N/A	1	U	ug/L
865	Bromochloromethane	LW19S	0411059-01	11/10/04	8260	Bromochloromethane	#N/A	1	U	ug/L
866	Bromodichloromethane	LW19S	0411059-01	11/10/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
867	Bromomethane	LW19S	0411059-01	11/10/04	8260	Bromomethane	#N/A	1	U	ug/L
868	Carbon tetrachloride	LW19S	0411059-01	11/10/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
869	Chlorobenzene	LW19S	0411059-01	11/10/04	8260	Chlorobenzene	#N/A	1	U	ug/L
870	Chloroethane	LW19S	0411059-01	11/10/04	8260	Chloroethane	#N/A	1	U	ug/L
871	Chloroform	LW19S	0411059-01	11/10/04	8260	Chloroform	#N/A	1	U	ug/L
872	Chloromethane	LW19S	0411059-01	11/10/04	8260	Chloromethane	#N/A	1	U	ug/L
873	cis-1,2-Dichloroethene	LW19S	0411059-01	11/10/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
874	cis-1,3-Dichloropropene	LW19S	0411059-01	11/10/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
875	Dibromochloromethane	LW19S	0411059-01	11/10/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
876	Dibromomethane	LW19S	0411059-01	11/10/04	8260	Dibromomethane	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
877	Dichlorodifluoromethane	LW19S	0411059-01	11/10/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
878	Hexachlorobutadiene	LW19S	0411059-01	11/10/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
879	Methylene chloride	LW19S	0411059-01	11/10/04	8260	Methylene chloride	#N/A	20	U	ug/L
880	Tetrachloroethene	LW19S	0411059-01	11/10/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
881	trans-1,2-Dichloroethene	LW19S	0411059-01	11/10/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
882	trans-1,3-Dichloropropene	LW19S	0411059-01	11/10/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
883	Trichloroethene	LW19S	0411059-01	11/10/04	8260	Trichloroethene	#N/A	1	U	ug/L
884	Trichlorofluoromethane	LW19S	0411059-01	11/10/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
885	Vinyl chloride	LW19S	0411059-01	11/10/04	8260	Vinyl chloride	#N/A	1	U	ug/L
886	1,2,4-Trichlorobenzene	LW19S	0411059-01	11/10/04	8270	1,2,4-Trichlorobenzene	#N/A	0.977	U	ug/L
887	1,2-Dichlorobenzene	LW19S	0411059-01	11/10/04	8270	1,2-Dichlorobenzene	#N/A	0.977	U	ug/L
888	1,3-Dichlorobenzene	LW19S	0411059-01	11/10/04	8270	1,3-Dichlorobenzene	#N/A	0.977	U	ug/L
889	1,4-Dichlorobenzene	LW19S	0411059-01	11/10/04	8270	1,4-Dichlorobenzene	#N/A	0.977	U	ug/L
890	2,4-Dichlorophenol	LW19S	0411059-01	11/10/04	8270	2,4-Dichlorophenol	#N/A	2.93	U	ug/L
891	2,4-Dinitrophenol	LW19S	0411059-01	11/10/04	8270	2,4-Dinitrophenol	#N/A	9.77	U	ug/L
892	2,4-Dinitrotoluene	LW19S	0411059-01	11/10/04	8270	2,4-Dinitrotoluene	#N/A	4.88	U	ug/L
893	2,6-Dinitrotoluene	LW19S	0411059-01	11/10/04	8270	2,6-Dinitrotoluene	#N/A	4.88	U	ug/L
894	2-Chloronaphthalene	LW19S	0411059-01	11/10/04	8270	2-Chloronaphthalene	#N/A	0.977	U	ug/L
895	2-Chlorophenol	LW19S	0411059-01	11/10/04	8270	2-Chlorophenol	#N/A	0.977	U	ug/L
896	2-Methylphenol	LW19S	0411059-01	11/10/04	8270	2-Methylphenol	#N/A	1.95	U	ug/L
897	2-Nitroaniline	LW19S	0411059-01	11/10/04	8270	2-Nitroaniline	#N/A	4.88	U	ug/L
898	2-Nitrophenol	LW19S	0411059-01	11/10/04	8270	2-Nitrophenol	#N/A	4.88	U	ug/L
899	3,3'-Dichlorobenzidine	LW19S	0411059-01	11/10/04	8270	3,3'-Dichlorobenzidine	#N/A	4.88	U	ug/L
900	3-Nitroaniline	LW19S	0411059-01	11/10/04	8270	3-Nitroaniline	#N/A	5.86	U	ug/L
901	4,6-Dinitro-2-methylphenol	LW19S	0411059-01	11/10/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.77	U	ug/L
902	4-Bromophenyl phenyl ether	LW19S	0411059-01	11/10/04	8270	4-Bromophenyl phenyl ether	#N/A	0.977	U	ug/L
903	4-Chloro-3-methylphenol	LW19S	0411059-01	11/10/04	8270	4-Chloro-3-methylphenol	#N/A	1.95	U	ug/L
904	4-Chloroaniline	LW19S	0411059-01	11/10/04	8270	4-Chloroaniline	#N/A	2.93	U	ug/L
905	4-Chlorophenyl phenyl ether	LW19S	0411059-01	11/10/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.977	U	ug/L
906	4-Nitroaniline	LW19S	0411059-01	11/10/04	8270	4-Nitroaniline	#N/A	4.88	U	ug/L
907	4-Nitrophenol	LW19S	0411059-01	11/10/04	8270	4-Nitrophenol	#N/A	4.88	U	ug/L
908	Benz(a)anthracene	LW19S	0411059-01	11/10/04	8270	Benz(a)anthracene	#N/A	0.977	U	ug/L
909	Benzo(a)pyrene	LW19S	0411059-01	11/10/04	8270	Benzo(a)pyrene	#N/A	0.977	U	ug/L
910	Benzo(b)fluoranthene	LW19S	0411059-01	11/10/04	8270	Benzo(b)fluoranthene	#N/A	0.977	U	ug/L
911	Benzo(g,h,i)perylene	LW19S	0411059-01	11/10/04	8270	Benzo(g,h,i)perylene	#N/A	0.977	U	ug/L
912	Benzo(k)fluoranthene	LW19S	0411059-01	11/10/04	8270	Benzo(k)fluoranthene	#N/A	0.977	U	ug/L
913	Benzyl Alcohol	LW19S	0411059-01	11/10/04	8270	Benzyl Alcohol	#N/A	4.88	U	ug/L
914	Bis(2-chloroethoxy)methane	LW19S	0411059-01	11/10/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.977	U	ug/L
915	Bis(2-chloroethyl)ether	LW19S	0411059-01	11/10/04	8270	Bis(2-chloroethyl)ether	#N/A	1.95	U	ug/L
916	Bis(2-chloroisopropyl)ether	LW19S	0411059-01	11/10/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.977	U	ug/L
917	Butyl benzyl phthalate	LW19S	0411059-01	11/10/04	8270	Butyl benzyl phthalate	#N/A	0.977	U	ug/L
918	Carbazole	LW19S	0411059-01	11/10/04	8270	Carbazole	#N/A	0.977	U	ug/L
919	Chrysene	LW19S	0411059-01	11/10/04	8270	Chrysene	#N/A	0.977	U	ug/L
920	Dibenz(a,h)anthracene	LW19S	0411059-01	11/10/04	8270	Dibenz(a,h)anthracene	#N/A	0.977	U	ug/L
921	Diethyl phthalate	LW19S	0411059-01	11/10/04	8270	Diethyl phthalate	#N/A	0.977	U	ug/L
922	Dimethyl phthalate	LW19S	0411059-01	11/10/04	8270	Dimethyl phthalate	#N/A	0.977	U	ug/L
923	Di-n-butyl phthalate	LW19S	0411059-01	11/10/04	8270	Di-n-butyl phthalate	#N/A	0.977	U	ug/L
924	Di-n-octyl phthalate	LW19S	0411059-01	11/10/04	8270	Di-n-octyl phthalate	#N/A	0.977	U	ug/L
925	Fluoranthene	LW19S	0411059-01	11/10/04	8270	Fluoranthene	#N/A	0.977	U	ug/L
926	Hexachlorobenzene	LW19S	0411059-01	11/10/04	8270	Hexachlorobenzene	#N/A	0.977	U	ug/L
927	Hexachlorobutadiene	LW19S	0411059-01	11/10/04	8270	Hexachlorobutadiene	#N/A	1.95	U	ug/L
928	Hexachlorocyclopentadiene	LW19S	0411059-01	11/10/04	8270	Hexachlorocyclopentadiene	#N/A	4.88	U	ug/L
929	Hexachloroethane	LW19S	0411059-01	11/10/04	8270	Hexachloroethane	#N/A	1.95	U	ug/L
930	Indeno(1,2,3-cd)pyrene	LW19S	0411059-01	11/10/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.977	U	ug/L
931	Nitrobenzene	LW19S	0411059-01	11/10/04	8270	Nitrobenzene	#N/A	0.977	U	ug/L
932	N-Nitrosodimethylamine	LW19S	0411059-01	11/10/04	8270	N-Nitrosodimethylamine	#N/A	0.977	U	ug/L
933	N-Nitrosodi-n-propylamine	LW19S	0411059-01	11/10/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.95	U	ug/L
934	N-Nitrosodiphenylamine	LW19S	0411059-01	11/10/04	8270	N-Nitrosodiphenylamine	#N/A	0.977	U	ug/L
935	Phenanthrene	LW19S	0411059-01	11/10/04	8270	Phenanthrene	#N/A	**2.31**		ug/L
936	Pyrene	LW19S	0411059-01	11/10/04	8270	Pyrene	#N/A	0.977	U	ug/L
937	Pyridine	LW19S	0411059-01	11/10/04	8270	Pyridine	#N/A	4.88	U	ug/L
938	Benz(a)anthracene	LW19S	0411059-01	11/10/04	8270SIM	Benz(a)anthracene	#N/A	0.0505	U	ug/L
939	Benzo(a)pyrene	LW19S	0411059-01	11/10/04	8270SIM	Benzo(a)pyrene	#N/A	0.0505	U	ug/L
940	Benzo(b)fluoranthene	LW19S	0411059-01	11/10/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0505	U	ug/L
941	Benzo(g,h,i)perylene	LW19S	0411059-01	11/10/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0505	U	ug/L
942	Benzo(k)fluoranthene	LW19S	0411059-01	11/10/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0505	U	ug/L
943	Chrysene	LW19S	0411059-01	11/10/04	8270SIM	Chrysene	#N/A	0.0505	U	ug/L
944	Dibenz(a,h)anthracene	LW19S	0411059-01	11/10/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0505	U	ug/L
945	Fluoranthene	LW19S	0411059-01	11/10/04	8270SIM	Fluoranthene	#N/A	0.0505	U	ug/L
946	Indeno(1,2,3-cd)pyrene	LW19S	0411059-01	11/10/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0505	U	ug/L
947	Phenanthrene	LW19S	0411059-01	11/10/04	8270SIM	Phenanthrene	#N/A	**1.7**		ug/L
948	Pyrene	LW19S	0411059-01	11/10/04	8270SIM	Pyrene	#N/A	0.0505	U	ug/L
949	Turbidity	LW19S	0411059-01	11/10/04	FIELD	Turbidity	#N/A	6		ntu

	A	B	C	D	E	F	G	H	I	J
950	Acetone	LW1S	0411052-06	11/9/04	8260	Acetone	30	50	U	ug/L
951	Carbon disulfide	LW1S	0411052-06	11/9/04	8260	Carbon disulfide	31	2	U	ug/L
952	2-Butanone	LW1S	0411052-06	11/9/04	8260	2-Butanone	32	10	U	ug/L
953	Benzene	LW1S	0411052-06	11/9/04	8260	Benzene	33	0.3	U	ug/L
954	Bromoform	LW1S	0411052-06	11/9/04	8260	Bromoform	34	1	U	ug/L
955	Toluene	LW1S	0411052-06	11/9/04	8260	Toluene	35	1	U	ug/L
956	Ethylbenzene	LW1S	0411052-06	11/9/04	8260	Ethylbenzene	36	1	U	ug/L
957	Styrene	LW1S	0411052-06	11/9/04	8260	Styrene	37	1	U	ug/L
958	m,p-Xylene	LW1S	0411052-06	11/9/04	8260	m,p-Xylene	38	2	U	ug/L
959	o-Xylene	LW1S	0411052-06	11/9/04	8260	o-Xylene	39	1	U	ug/L
960	1,3,5-Trimethylbenzene	LW1S	0411052-06	11/9/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
961	1,2,4-Trimethylbenzene	LW1S	0411052-06	11/9/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
962	Isopropylbenzene	LW1S	0411052-06	11/9/04	8260	Isopropylbenzene	42	1	U	ug/L
963	n-Propylbenzene	LW1S	0411052-06	11/9/04	8260	n-Propylbenzene	43	1	U	ug/L
964	tert-Butylbenzene	LW1S	0411052-06	11/9/04	8260	tert-Butylbenzene	44	1	U	ug/L
965	sec-Butylbenzene	LW1S	0411052-06	11/9/04	8260	sec-Butylbenzene	45	1	U	ug/L
966	4-Isopropyltoluene	LW1S	0411052-06	11/9/04	8260	4-Isopropyltoluene	46	1	U	ug/L
967	n-Butylbenzene	LW1S	0411052-06	11/9/04	8260	n-Butylbenzene	47	1	U	ug/L
968	Naphthalene	LW1S	0411052-06	11/9/04	8260	Naphthalene	48	1	U	ug/L
969	Methyl tert-butyl ether	LW1S	0411052-06	11/9/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
970	Gasoline Range Hydrocarbons	LW1S	0411052-06	11/9/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	0.1	U	ug/L
971	pH	LW1S	0411052-06	11/9/04	FIELD	pH	82	6.45		s.u.
972	Temperature	LW1S	0411052-06	11/9/04	FIELD	Temperature	83	16.6		c
973	Conductivity	LW1S	0411052-06	11/9/04	FIELD	Conductivity	84	228		us
974	Dissolved oxygen	LW1S	0411052-06	11/9/04	FIELD	Dissolved oxygen	85	2.02		mg/l
975	1,1,1,2-Tetrachloroethane	LW1S	0411052-06	11/9/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
976	1,1,1-Trichloroethane	LW1S	0411052-06	11/9/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
977	1,1,2,2-Tetrachloroethane	LW1S	0411052-06	11/9/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
978	1,1,2-Trichloroethane	LW1S	0411052-06	11/9/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
979	1,1-Dichloroethane	LW1S	0411052-06	11/9/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
980	1,1-Dichloroethene	LW1S	0411052-06	11/9/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
981	1,1-Dichloropropene	LW1S	0411052-06	11/9/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
982	1,2,3-Trichlorobenzene	LW1S	0411052-06	11/9/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
983	1,2,3-Trichloropropane	LW1S	0411052-06	11/9/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
984	1,2,4-Trichlorobenzene	LW1S	0411052-06	11/9/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
985	1,2-Dibromo-3-chloropropane	LW1S	0411052-06	11/9/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
986	1,2-Dibromoethane	LW1S	0411052-06	11/9/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
987	1,2-Dichlorobenzene	LW1S	0411052-06	11/9/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
988	1,2-Dichloroethane	LW1S	0411052-06	11/9/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
989	1,2-Dichloropropane	LW1S	0411052-06	11/9/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
990	1,3-Dichlorobenzene	LW1S	0411052-06	11/9/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
991	1,3-Dichloropropane	LW1S	0411052-06	11/9/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
992	1,4-Dichlorobenzene	LW1S	0411052-06	11/9/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
993	2,2-Dichloropropane	LW1S	0411052-06	11/9/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
994	2-Chlorotoluene	LW1S	0411052-06	11/9/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
995	2-Hexanone	LW1S	0411052-06	11/9/04	8260	2-Hexanone	#N/A	10	U	ug/L
996	4-Chlorotoluene	LW1S	0411052-06	11/9/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
997	4-Methyl-2-pentanone	LW1S	0411052-06	11/9/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
998	Acrylonitrile	LW1S	0411052-06	11/9/04	8260	Acrylonitrile	#N/A	5	U	ug/L
999	Bromobenzene	LW1S	0411052-06	11/9/04	8260	Bromobenzene	#N/A	1	U	ug/L
1000	Bromochloromethane	LW1S	0411052-06	11/9/04	8260	Bromochloromethane	#N/A	1	U	ug/L
1001	Bromodichloromethane	LW1S	0411052-06	11/9/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
1002	Bromomethane	LW1S	0411052-06	11/9/04	8260	Bromomethane	#N/A	1	U	ug/L
1003	Carbon tetrachloride	LW1S	0411052-06	11/9/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
1004	Chlorobenzene	LW1S	0411052-06	11/9/04	8260	Chlorobenzene	#N/A	1	U	ug/L
1005	Chloroethane	LW1S	0411052-06	11/9/04	8260	Chloroethane	#N/A	1	U	ug/L
1006	Chloroform	LW1S	0411052-06	11/9/04	8260	Chloroform	#N/A	1	U	ug/L
1007	Chloromethane	LW1S	0411052-06	11/9/04	8260	Chloromethane	#N/A	1	U	ug/L
1008	cis-1,2-Dichloroethene	LW1S	0411052-06	11/9/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
1009	cis-1,3-Dichloropropene	LW1S	0411052-06	11/9/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
1010	Dibromochloromethane	LW1S	0411052-06	11/9/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
1011	Dibromomethane	LW1S	0411052-06	11/9/04	8260	Dibromomethane	#N/A	1	U	ug/L
1012	Dichlorodifluoromethane	LW1S	0411052-06	11/9/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
1013	Hexachlorobutadiene	LW1S	0411052-06	11/9/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
1014	Methylene chloride	LW1S	0411052-06	11/9/04	8260	Methylene chloride	#N/A	20	U	ug/L
1015	Tetrachloroethene	LW1S	0411052-06	11/9/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
1016	trans-1,2-Dichloroethene	LW1S	0411052-06	11/9/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
1017	trans-1,3-Dichloropropene	LW1S	0411052-06	11/9/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
1018	Trichloroethene	LW1S	0411052-06	11/9/04	8260	Trichloroethene	#N/A	1	U	ug/L
1019	Trichlorofluoromethane	LW1S	0411052-06	11/9/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
1020	Vinyl chloride	LW1S	0411052-06	11/9/04	8260	Vinyl chloride	#N/A	1	U	ug/L
1021	Turbidity	LW1S	0411052-06	11/9/04	FIELD	Turbidity	#N/A	0		ntu
1022	Pentachlorophenol	LW20D	0411059-03	11/10/04	8270	Pentachlorophenol	3	4.75	U	ug/L

	A	B	C	D	E	F	G	H	I	J
1023	Phenol	LW20D	0411059-03	11/10/04	8270	Phenol	13	1.9	U	ug/L
1024	3-&4-Methylphenol	LW20D	0411059-03	11/10/04	8270	3-&4-Methylphenol	14	9.5	U	ug/L
1025	Isophorone	LW20D	0411059-03	11/10/04	8270	Isophorone	15	0.95	U	ug/L
1026	2,4-Dimethylphenol	LW20D	0411059-03	11/10/04	8270	2,4-Dimethylphenol	16	2.85	U	ug/L
1027	Benzoic Acid	LW20D	0411059-03	11/10/04	8270	Benzoic Acid	17	19	U	ug/L
1028	Naphthalene	LW20D	0411059-03	11/10/04	8270	Naphthalene	18	0.95	U	ug/L
1029	2-Methylnaphthalene	LW20D	0411059-03	11/10/04	8270	2-Methylnaphthalene	19	0.95	U	ug/L
1030	2,4,6-Trichlorophenol	LW20D	0411059-03	11/10/04	8270	2,4,6-Trichlorophenol	20	4.75	U	ug/L
1031	2,4,5-Trichlorophenol	LW20D	0411059-03	11/10/04	8270	2,4,5-Trichlorophenol	21	4.75	U	ug/L
1032	Acenaphthene	LW20D	0411059-03	11/10/04	8270	Acenaphthene	22	0.95	U	ug/L
1033	Dibenzofuran	LW20D	0411059-03	11/10/04	8270	Dibenzofuran	23	0.95	U	ug/L
1034	Fluorene	LW20D	0411059-03	11/10/04	8270	Fluorene	24	0.95	U	ug/L
1035	Bis(2-ethylhexyl)phthalate	LW20D	0411059-03	11/10/04	8270	Bis(2-ethylhexyl)phthalate	26	0.95	U	ug/L
1036	Acetone	LW20D	0411059-03	11/10/04	8260	Acetone	30	50	U	ug/L
1037	Carbon disulfide	LW20D	0411059-03	11/10/04	8260	Carbon disulfide	31	2	U	ug/L
1038	2-Butanone	LW20D	0411059-03	11/10/04	8260	2-Butanone	32	10	U	ug/L
1039	Benzene	LW20D	0411059-03	11/10/04	8260	Benzene	33	0.3	U	ug/L
1040	Bromoform	LW20D	0411059-03	11/10/04	8260	Bromoform	34	1	U	ug/L
1041	Toluene	LW20D	0411059-03	11/10/04	8260	Toluene	35	1	U	ug/L
1042	Ethylbenzene	LW20D	0411059-03	11/10/04	8260	Ethylbenzene	36	1	U	ug/L
1043	Styrene	LW20D	0411059-03	11/10/04	8260	Styrene	37	1	U	ug/L
1044	m,p-Xylene	LW20D	0411059-03	11/10/04	8260	m,p-Xylene	38	2	U	ug/L
1045	o-Xylene	LW20D	0411059-03	11/10/04	8260	o-Xylene	39	1	U	ug/L
1046	1,3,5-Trimethylbenzene	LW20D	0411059-03	11/10/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
1047	1,2,4-Trimethylbenzene	LW20D	0411059-03	11/10/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
1048	Isopropylbenzene	LW20D	0411059-03	11/10/04	8260	Isopropylbenzene	42	1	U	ug/L
1049	n-Propylbenzene	LW20D	0411059-03	11/10/04	8260	n-Propylbenzene	43	1	U	ug/L
1050	tert-Butylbenzene	LW20D	0411059-03	11/10/04	8260	tert-Butylbenzene	44	1	U	ug/L
1051	sec-Butylbenzene	LW20D	0411059-03	11/10/04	8260	sec-Butylbenzene	45	1	U	ug/L
1052	4-Isopropyltoluene	LW20D	0411059-03	11/10/04	8260	4-Isopropyltoluene	46	1	U	ug/L
1053	n-Butylbenzene	LW20D	0411059-03	11/10/04	8260	n-Butylbenzene	47	1	U	ug/L
1054	Naphthalene	LW20D	0411059-03	11/10/04	8260	Naphthalene	48	1	U	ug/L
1055	Methyl tert-butyl ether	LW20D	0411059-03	11/10/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
1056	Diesel Range Hydrocarbons	LW20D	0411059-03	11/10/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.552**		mg/L
1057	Lube Oil	LW20D	0411059-03	11/10/04	NWTPH-Dx	Lube Oil	54	**0.665**		mg/L
1058	Gasoline Range Hydrocarbons	LW20D	0411059-03	11/10/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	0.1	U	ug/L
1059	Arsenic	LW20D	0411059-03	11/10/04	6020	Arsenic	59	**0.0297**		ug/L
1060	Chromium	LW20D	0411059-03	11/10/04	6010	Chromium	60	**0.022**		mg/L
1061	Copper	LW20D	0411059-03	11/10/04	6010	Copper	61	**0.0113**		mg/L
1062	Lead	LW20D	0411059-03	11/10/04	6020	Lead	62	**0.00188**		ug/L
1063	Nickel	LW20D	0411059-03	11/10/04	6010	Nickel	63	0.005	U	mg/L
1064	Zinc	LW20D	0411059-03	11/10/04	6010	Zinc	64	**0.0238**		mg/L
1065	Total Dissolved Solids	LW20D	0411059-03	11/10/04	1601	Total Dissolved Solids	74	**248**	J	mg/L
1066	Chloride	LW20D	0411059-03	11/10/04	9056	Chloride	75	**3.68**		mg/L
1067	pH	LW20D	0411059-03	11/10/04	FIELD	pH	82	7.02		s.u.
1068	Temperature	LW20D	0411059-03	11/10/04	FIELD	Temperature	83	14.2		c
1069	Conductivity	LW20D	0411059-03	11/10/04	FIELD	Conductivity	84	325		us
1070	Dissolved oxygen	LW20D	0411059-03	11/10/04	FIELD	Dissolved oxygen	85	1.81		mg/l
1071	Naphthalene	LW20D	0411059-03	11/10/04	8270SIM	Naphthalene	119	0.0476	U	ug/L
1072	Acenaphthylene	LW20D	0411059-03	11/10/04	8270SIM	Acenaphthylene	121	0.0476	U	ug/L
1073	Acenaphthene	LW20D	0411059-03	11/10/04	8270SIM	Acenaphthene	122	0.0476	U	ug/L
1074	Fluorene	LW20D	0411059-03	11/10/04	8270SIM	Fluorene	123	0.0476	U	ug/L
1075	Anthracene	LW20D	0411059-03	11/10/04	8270SIM	Anthracene	124	0.0476	U	ug/L
1076	1,1,1,2-Tetrachloroethane	LW20D	0411059-03	11/10/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
1077	1,1,1-Trichloroethane	LW20D	0411059-03	11/10/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
1078	1,1,2,2-Tetrachloroethane	LW20D	0411059-03	11/10/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
1079	1,1,2-Trichloroethane	LW20D	0411059-03	11/10/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
1080	1,1-Dichloroethane	LW20D	0411059-03	11/10/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
1081	1,1-Dichloroethene	LW20D	0411059-03	11/10/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
1082	1,1-Dichloropropene	LW20D	0411059-03	11/10/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
1083	1,2,3-Trichlorobenzene	LW20D	0411059-03	11/10/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
1084	1,2,3-Trichloropropane	LW20D	0411059-03	11/10/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
1085	1,2,4-Trichlorobenzene	LW20D	0411059-03	11/10/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
1086	1,2-Dibromo-3-chloropropane	LW20D	0411059-03	11/10/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
1087	1,2-Dibromoethane	LW20D	0411059-03	11/10/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
1088	1,2-Dichlorobenzene	LW20D	0411059-03	11/10/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
1089	1,2-Dichloroethane	LW20D	0411059-03	11/10/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
1090	1,2-Dichloropropane	LW20D	0411059-03	11/10/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
1091	1,3-Dichlorobenzene	LW20D	0411059-03	11/10/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
1092	1,3-Dichloropropane	LW20D	0411059-03	11/10/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
1093	1,4-Dichlorobenzene	LW20D	0411059-03	11/10/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
1094	2,2-Dichloropropane	LW20D	0411059-03	11/10/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
1095	2-Chlorotoluene	LW20D	0411059-03	11/10/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
1096	2-Hexanone	LW20D	0411059-03	11/10/04	8260	2-Hexanone	#N/A	10	U	ug/L
1097	4-Chlorotoluene	LW20D	0411059-03	11/10/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
1098	4-Methyl-2-pentanone	LW20D	0411059-03	11/10/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
1099	Acrylonitrile	LW20D	0411059-03	11/10/04	8260	Acrylonitrile	#N/A	5	U	ug/L
1100	Bromobenzene	LW20D	0411059-03	11/10/04	8260	Bromobenzene	#N/A	1	U	ug/L
1101	Bromochloromethane	LW20D	0411059-03	11/10/04	8260	Bromochloromethane	#N/A	1	U	ug/L
1102	Bromodichloromethane	LW20D	0411059-03	11/10/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
1103	Bromomethane	LW20D	0411059-03	11/10/04	8260	Bromomethane	#N/A	1	U	ug/L
1104	Carbon tetrachloride	LW20D	0411059-03	11/10/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
1105	Chlorobenzene	LW20D	0411059-03	11/10/04	8260	Chlorobenzene	#N/A	1	U	ug/L
1106	Chloroethane	LW20D	0411059-03	11/10/04	8260	Chloroethane	#N/A	1	U	ug/L
1107	Chloroform	LW20D	0411059-03	11/10/04	8260	Chloroform	#N/A	1	U	ug/L
1108	Chloromethane	LW20D	0411059-03	11/10/04	8260	Chloromethane	#N/A	1	U	ug/L
1109	cis-1,2-Dichloroethene	LW20D	0411059-03	11/10/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
1110	cis-1,3-Dichloropropene	LW20D	0411059-03	11/10/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
1111	Dibromochloromethane	LW20D	0411059-03	11/10/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
1112	Dibromomethane	LW20D	0411059-03	11/10/04	8260	Dibromomethane	#N/A	1	U	ug/L
1113	Dichlorodifluoromethane	LW20D	0411059-03	11/10/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
1114	Hexachlorobutadiene	LW20D	0411059-03	11/10/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
1115	Methylene chloride	LW20D	0411059-03	11/10/04	8260	Methylene chloride	#N/A	20	U	ug/L
1116	Tetrachloroethene	LW20D	0411059-03	11/10/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
1117	trans-1,2-Dichloroethene	LW20D	0411059-03	11/10/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
1118	trans-1,3-Dichloropropene	LW20D	0411059-03	11/10/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
1119	Trichloroethene	LW20D	0411059-03	11/10/04	8260	Trichloroethene	#N/A	1	U	ug/L
1120	Trichlorofluoromethane	LW20D	0411059-03	11/10/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
1121	Vinyl chloride	LW20D	0411059-03	11/10/04	8260	Vinyl chloride	#N/A	1	U	ug/L
1122	1,2,4-Trichlorobenzene	LW20D	0411059-03	11/10/04	8270	1,2,4-Trichlorobenzene	#N/A	0.95	U	ug/L
1123	1,2-Dichlorobenzene	LW20D	0411059-03	11/10/04	8270	1,2-Dichlorobenzene	#N/A	0.95	U	ug/L
1124	1,3-Dichlorobenzene	LW20D	0411059-03	11/10/04	8270	1,3-Dichlorobenzene	#N/A	0.95	U	ug/L
1125	1,4-Dichlorobenzene	LW20D	0411059-03	11/10/04	8270	1,4-Dichlorobenzene	#N/A	0.95	U	ug/L
1126	2,4-Dichlorophenol	LW20D	0411059-03	11/10/04	8270	2,4-Dichlorophenol	#N/A	2.85	U	ug/L
1127	2,4-Dinitrophenol	LW20D	0411059-03	11/10/04	8270	2,4-Dinitrophenol	#N/A	9.5	U	ug/L
1128	2,4-Dinitrotoluene	LW20D	0411059-03	11/10/04	8270	2,4-Dinitrotoluene	#N/A	4.75	U	ug/L
1129	2,6-Dinitrotoluene	LW20D	0411059-03	11/10/04	8270	2,6-Dinitrotoluene	#N/A	4.75	U	ug/L
1130	2-Chloronaphthalene	LW20D	0411059-03	11/10/04	8270	2-Chloronaphthalene	#N/A	0.95	U	ug/L
1131	2-Chlorophenol	LW20D	0411059-03	11/10/04	8270	2-Chlorophenol	#N/A	0.95	U	ug/L
1132	2-Methylphenol	LW20D	0411059-03	11/10/04	8270	2-Methylphenol	#N/A	1.9	U	ug/L
1133	2-Nitroaniline	LW20D	0411059-03	11/10/04	8270	2-Nitroaniline	#N/A	4.75	U	ug/L
1134	2-Nitrophenol	LW20D	0411059-03	11/10/04	8270	2-Nitrophenol	#N/A	4.75	U	ug/L
1135	3,3'-Dichlorobenzidine	LW20D	0411059-03	11/10/04	8270	3,3'-Dichlorobenzidine	#N/A	4.75	U	ug/L
1136	3-Nitroaniline	LW20D	0411059-03	11/10/04	8270	3-Nitroaniline	#N/A	5.7	U	ug/L
1137	4,6-Dinitro-2-methylphenol	LW20D	0411059-03	11/10/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.5	U	ug/L
1138	4-Bromophenyl phenyl ether	LW20D	0411059-03	11/10/04	8270	4-Bromophenyl phenyl ether	#N/A	0.95	U	ug/L
1139	4-Chloro-3-methylphenol	LW20D	0411059-03	11/10/04	8270	4-Chloro-3-methylphenol	#N/A	1.9	U	ug/L
1140	4-Chloroaniline	LW20D	0411059-03	11/10/04	8270	4-Chloroaniline	#N/A	2.85	U	ug/L
1141	4-Chlorophenyl phenyl ether	LW20D	0411059-03	11/10/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.95	U	ug/L
1142	4-Nitroaniline	LW20D	0411059-03	11/10/04	8270	4-Nitroaniline	#N/A	4.75	U	ug/L
1143	4-Nitrophenol	LW20D	0411059-03	11/10/04	8270	4-Nitrophenol	#N/A	4.75	U	ug/L
1144	Benz(a)anthracene	LW20D	0411059-03	11/10/04	8270	Benz(a)anthracene	#N/A	0.95	U	ug/L
1145	Benzo(a)pyrene	LW20D	0411059-03	11/10/04	8270	Benzo(a)pyrene	#N/A	0.95	U	ug/L
1146	Benzo(b)fluoranthene	LW20D	0411059-03	11/10/04	8270	Benzo(b)fluoranthene	#N/A	0.95	U	ug/L
1147	Benzo(g,h,i)perylene	LW20D	0411059-03	11/10/04	8270	Benzo(g,h,i)perylene	#N/A	0.95	U	ug/L
1148	Benzo(k)fluoranthene	LW20D	0411059-03	11/10/04	8270	Benzo(k)fluoranthene	#N/A	0.95	U	ug/L
1149	Benzyl Alcohol	LW20D	0411059-03	11/10/04	8270	Benzyl Alcohol	#N/A	4.75	U	ug/L
1150	Bis(2-chloroethoxy)methane	LW20D	0411059-03	11/10/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.95	U	ug/L
1151	Bis(2-chloroethyl)ether	LW20D	0411059-03	11/10/04	8270	Bis(2-chloroethyl)ether	#N/A	1.9	U	ug/L
1152	Bis(2-chloroisopropyl)ether	LW20D	0411059-03	11/10/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.95	U	ug/L
1153	Butyl benzyl phthalate	LW20D	0411059-03	11/10/04	8270	Butyl benzyl phthalate	#N/A	0.95	U	ug/L
1154	Carbazole	LW20D	0411059-03	11/10/04	8270	Carbazole	#N/A	0.95	U	ug/L
1155	Chrysene	LW20D	0411059-03	11/10/04	8270	Chrysene	#N/A	0.95	U	ug/L
1156	Dibenz(a,h)anthracene	LW20D	0411059-03	11/10/04	8270	Dibenz(a,h)anthracene	#N/A	0.95	U	ug/L
1157	Diethyl phthalate	LW20D	0411059-03	11/10/04	8270	Diethyl phthalate	#N/A	0.95	U	ug/L
1158	Dimethyl phthalate	LW20D	0411059-03	11/10/04	8270	Dimethyl phthalate	#N/A	0.95	U	ug/L
1159	Di-n-butyl phthalate	LW20D	0411059-03	11/10/04	8270	Di-n-butyl phthalate	#N/A	0.95	U	ug/L
1160	Di-n-octyl phthalate	LW20D	0411059-03	11/10/04	8270	Di-n-octyl phthalate	#N/A	0.95	U	ug/L
1161	Fluoranthene	LW20D	0411059-03	11/10/04	8270	Fluoranthene	#N/A	0.95	U	ug/L
1162	Hexachlorobenzene	LW20D	0411059-03	11/10/04	8270	Hexachlorobenzene	#N/A	0.95	U	ug/L
1163	Hexachlorobutadiene	LW20D	0411059-03	11/10/04	8270	Hexachlorobutadiene	#N/A	1.9	U	ug/L
1164	Hexachlorocyclopentadiene	LW20D	0411059-03	11/10/04	8270	Hexachlorocyclopentadiene	#N/A	4.75	U	ug/L
1165	Hexachloroethane	LW20D	0411059-03	11/10/04	8270	Hexachloroethane	#N/A	1.9	U	ug/L
1166	Indeno(1,2,3-cd)pyrene	LW20D	0411059-03	11/10/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.95	U	ug/L
1167	Nitrobenzene	LW20D	0411059-03	11/10/04	8270	Nitrobenzene	#N/A	0.95	U	ug/L
1168	N-Nitrosodimethylamine	LW20D	0411059-03	11/10/04	8270	N-Nitrosodimethylamine	#N/A	0.95	U	ug/L

	A	B	C	D	E	F	G	H	I	J
1169	N-Nitrosodi-n-propylamine	LW20D	0411059-03	11/10/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.9	U	ug/L
1170	N-Nitrosodiphenylamine	LW20D	0411059-03	11/10/04	8270	N-Nitrosodiphenylamine	#N/A	0.95	U	ug/L
1171	Phenanthrene	LW20D	0411059-03	11/10/04	8270	Phenanthrene	#N/A	0.95	U	ug/L
1172	Pyrene	LW20D	0411059-03	11/10/04	8270	Pyrene	#N/A	0.95	U	ug/L
1173	Pyridine	LW20D	0411059-03	11/10/04	8270	Pyridine	#N/A	4.75	U	ug/L
1174	Benz(a)anthracene	LW20D	0411059-03	11/10/04	8270SIM	Benz(a)anthracene	#N/A	0.0476	U	ug/L
1175	Benzo(a)pyrene	LW20D	0411059-03	11/10/04	8270SIM	Benzo(a)pyrene	#N/A	0.0476	U	ug/L
1176	Benzo(b)fluoranthene	LW20D	0411059-03	11/10/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0476	U	ug/L
1177	Benzo(g,h,i)perylene	LW20D	0411059-03	11/10/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0476	U	ug/L
1178	Benzo(k)fluoranthene	LW20D	0411059-03	11/10/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0476	U	ug/L
1179	Chrysene	LW20D	0411059-03	11/10/04	8270SIM	Chrysene	#N/A	0.0476	U	ug/L
1180	Dibenz(a,h)anthracene	LW20D	0411059-03	11/10/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0476	U	ug/L
1181	Fluoranthene	LW20D	0411059-03	11/10/04	8270SIM	Fluoranthene	#N/A	0.0476	U	ug/L
1182	Indeno(1,2,3-cd)pyrene	LW20D	0411059-03	11/10/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0476	U	ug/L
1183	Phenanthrene	LW20D	0411059-03	11/10/04	8270SIM	Phenanthrene	#N/A	0.0476	U	ug/L
1184	Pyrene	LW20D	0411059-03	11/10/04	8270SIM	Pyrene	#N/A	0.0476	U	ug/L
1185	Turbidity	LW20D	0411059-03	11/10/04	FIELD	Turbidity	#N/A	25		ntu
1186	Pentachlorophenol	LW20S	0411059-02	11/10/04	8270	Pentachlorophenol	3	4.88	U	ug/L
1187	Phenol	LW20S	0411059-02	11/10/04	8270	Phenol	13	1.95	U	ug/L
1188	3-&4-Methylphenol	LW20S	0411059-02	11/10/04	8270	3-&4-Methylphenol	14	9.76	U	ug/L
1189	Isophorone	LW20S	0411059-02	11/10/04	8270	Isophorone	15	0.976	U	ug/L
1190	2,4-Dimethylphenol	LW20S	0411059-02	11/10/04	8270	2,4-Dimethylphenol	16	2.93	U	ug/L
1191	Benzoic Acid	LW20S	0411059-02	11/10/04	8270	Benzoic Acid	17	19.5	U	ug/L
1192	Naphthalene	LW20S	0411059-02	11/10/04	8270	Naphthalene	18	0.976	U	ug/L
1193	2-Methylnaphthalene	LW20S	0411059-02	11/10/04	8270	2-Methylnaphthalene	19	0.976	U	ug/L
1194	2,4,6-Trichlorophenol	LW20S	0411059-02	11/10/04	8270	2,4,6-Trichlorophenol	20	4.88	U	ug/L
1195	2,4,5-Trichlorophenol	LW20S	0411059-02	11/10/04	8270	2,4,5-Trichlorophenol	21	4.88	U	ug/L
1196	Acenaphthene	LW20S	0411059-02	11/10/04	8270	Acenaphthene	22	**1.35**		ug/L
1197	Dibenzofuran	LW20S	0411059-02	11/10/04	8270	Dibenzofuran	23	**1.17**		ug/L
1198	Fluorene	LW20S	0411059-02	11/10/04	8270	Fluorene	24	**3.24**		ug/L
1199	Bis(2-ethylhexyl)phthalate	LW20S	0411059-02	11/10/04	8270	Bis(2-ethylhexyl)phthalate	26	0.976	U	ug/L
1200	Acetone	LW20S	0411059-02	11/10/04	8260	Acetone	30	50	U	ug/L
1201	Carbon disulfide	LW20S	0411059-02	11/10/04	8260	Carbon disulfide	31	2	U	ug/L
1202	2-Butanone	LW20S	0411059-02	11/10/04	8260	2-Butanone	32	10	U	ug/L
1203	Benzene	LW20S	0411059-02	11/10/04	8260	Benzene	33	**0.38**		ug/L
1204	Bromoform	LW20S	0411059-02	11/10/04	8260	Bromoform	34	1	U	ug/L
1205	Toluene	LW20S	0411059-02	11/10/04	8260	Toluene	35	1	U	ug/L
1206	Ethylbenzene	LW20S	0411059-02	11/10/04	8260	Ethylbenzene	36	1	U	ug/L
1207	Styrene	LW20S	0411059-02	11/10/04	8260	Styrene	37	1	U	ug/L
1208	m,p-Xylene	LW20S	0411059-02	11/10/04	8260	m,p-Xylene	38	2	U	ug/L
1209	o-Xylene	LW20S	0411059-02	11/10/04	8260	o-Xylene	39	**1.3**		ug/L
1210	1,3,5-Trimethylbenzene	LW20S	0411059-02	11/10/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
1211	1,2,4-Trimethylbenzene	LW20S	0411059-02	11/10/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
1212	Isopropylbenzene	LW20S	0411059-02	11/10/04	8260	Isopropylbenzene	42	**7.75**		ug/L
1213	n-Propylbenzene	LW20S	0411059-02	11/10/04	8260	n-Propylbenzene	43	**11.3**		ug/L
1214	tert-Butylbenzene	LW20S	0411059-02	11/10/04	8260	tert-Butylbenzene	44	1	U	ug/L
1215	sec-Butylbenzene	LW20S	0411059-02	11/10/04	8260	sec-Butylbenzene	45	**5.26**		ug/L
1216	4-Isopropyltoluene	LW20S	0411059-02	11/10/04	8260	4-Isopropyltoluene	46	1	U	ug/L
1217	n-Butylbenzene	LW20S	0411059-02	11/10/04	8260	n-Butylbenzene	47	**3.24**		ug/L
1218	Naphthalene	LW20S	0411059-02	11/10/04	8260	Naphthalene	48	1	U	ug/L
1219	Methyl tert-butyl ether	LW20S	0411059-02	11/10/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
1220	Diesel Range Hydrocarbons	LW20S	0411059-02	11/10/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**6.45**		mg/L
1221	Lube Oil	LW20S	0411059-02	11/10/04	NWTPH-Dx	Lube Oil	54	**2.37**		mg/L
1222	Gasoline Range Hydrocarbons	LW20S	0411059-02	11/10/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**1.21**		ug/L
1223	Arsenic	LW20S	0411059-02	11/10/04	6020	Arsenic	59	**0.0336**		ug/L
1224	Chromium	LW20S	0411059-02	11/10/04	6010	Chromium	60	0.005	U	mg/L
1225	Copper	LW20S	0411059-02	11/10/04	6010	Copper	61	0.01	U	mg/L
1226	Lead	LW20S	0411059-02	11/10/04	6020	Lead	62	**0.00042**		ug/L
1227	Nickel	LW20S	0411059-02	11/10/04	6010	Nickel	63	0.005	U	mg/L
1228	Zinc	LW20S	0411059-02	11/10/04	6010	Zinc	64	0.01	U	mg/L
1229	Total Dissolved Solids	LW20S	0411059-02	11/10/04	1601	Total Dissolved Solids	74	**287**		mg/L
1230	Chloride	LW20S	0411059-02	11/10/04	9056	Chloride	75	**0.21**		mg/L
1231	pH	LW20S	0411059-02	11/10/04	FIELD	pH	82	6.52		s.u.
1232	Temperature	LW20S	0411059-02	11/10/04	FIELD	Temperature	83	16.1		c
1233	Conductivity	LW20S	0411059-02	11/10/04	FIELD	Conductivity	84	385		us
1234	Dissolved oxygen	LW20S	0411059-02	11/10/04	FIELD	Dissolved oxygen	85	1.4		mg/l
1235	Naphthalene	LW20S	0411059-02	11/10/04	8270SIM	Naphthalene	119	**0.554**		ug/L
1236	Acenaphthylene	LW20S	0411059-02	11/10/04	8270SIM	Acenaphthylene	121	**0.301**		ug/L
1237	Acenaphthene	LW20S	0411059-02	11/10/04	8270SIM	Acenaphthene	122	**1.14**		ug/L
1238	Fluorene	LW20S	0411059-02	11/10/04	8270SIM	Fluorene	123	**3.46**		ug/L
1239	Anthracene	LW20S	0411059-02	11/10/04	8270SIM	Anthracene	124	**0.0875**		ug/L
1240	1,1,1,2-Tetrachloroethane	LW20S	0411059-02	11/10/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
1241	1,1,1-Trichloroethane	LW20S	0411059-02	11/10/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
1242	1,1,2,2-Tetrachloroethane	LW20S	0411059-02	11/10/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
1243	1,1,2-Trichloroethane	LW20S	0411059-02	11/10/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
1244	1,1-Dichloroethane	LW20S	0411059-02	11/10/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
1245	1,1-Dichloroethene	LW20S	0411059-02	11/10/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
1246	1,1-Dichloropropene	LW20S	0411059-02	11/10/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
1247	1,2,3-Trichlorobenzene	LW20S	0411059-02	11/10/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
1248	1,2,3-Trichloropropane	LW20S	0411059-02	11/10/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
1249	1,2,4-Trichlorobenzene	LW20S	0411059-02	11/10/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
1250	1,2-Dibromo-3-chloropropane	LW20S	0411059-02	11/10/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
1251	1,2-Dibromoethane	LW20S	0411059-02	11/10/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
1252	1,2-Dichlorobenzene	LW20S	0411059-02	11/10/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
1253	1,2-Dichloroethane	LW20S	0411059-02	11/10/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
1254	1,2-Dichloropropane	LW20S	0411059-02	11/10/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
1255	1,3-Dichlorobenzene	LW20S	0411059-02	11/10/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
1256	1,3-Dichloropropane	LW20S	0411059-02	11/10/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
1257	1,4-Dichlorobenzene	LW20S	0411059-02	11/10/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
1258	2,2-Dichloropropane	LW20S	0411059-02	11/10/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
1259	2-Chlorotoluene	LW20S	0411059-02	11/10/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
1260	2-Hexanone	LW20S	0411059-02	11/10/04	8260	2-Hexanone	#N/A	10	U	ug/L
1261	4-Chlorotoluene	LW20S	0411059-02	11/10/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
1262	4-Methyl-2-pentanone	LW20S	0411059-02	11/10/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
1263	Acrylonitrile	LW20S	0411059-02	11/10/04	8260	Acrylonitrile	#N/A	5	U	ug/L
1264	Bromobenzene	LW20S	0411059-02	11/10/04	8260	Bromobenzene	#N/A	1	U	ug/L
1265	Bromochloromethane	LW20S	0411059-02	11/10/04	8260	Bromochloromethane	#N/A	1	U	ug/L
1266	Bromodichloromethane	LW20S	0411059-02	11/10/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
1267	Bromomethane	LW20S	0411059-02	11/10/04	8260	Bromomethane	#N/A	1	U	ug/L
1268	Carbon tetrachloride	LW20S	0411059-02	11/10/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
1269	Chlorobenzene	LW20S	0411059-02	11/10/04	8260	Chlorobenzene	#N/A	1	U	ug/L
1270	Chloroethane	LW20S	0411059-02	11/10/04	8260	Chloroethane	#N/A	1	U	ug/L
1271	Chloroform	LW20S	0411059-02	11/10/04	8260	Chloroform	#N/A	1	U	ug/L
1272	Chloromethane	LW20S	0411059-02	11/10/04	8260	Chloromethane	#N/A	1	U	ug/L
1273	cis-1,2-Dichloroethene	LW20S	0411059-02	11/10/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
1274	cis-1,3-Dichloropropene	LW20S	0411059-02	11/10/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
1275	Dibromochloromethane	LW20S	0411059-02	11/10/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
1276	Dibromomethane	LW20S	0411059-02	11/10/04	8260	Dibromomethane	#N/A	1	U	ug/L
1277	Dichlorodifluoromethane	LW20S	0411059-02	11/10/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
1278	Hexachlorobutadiene	LW20S	0411059-02	11/10/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
1279	Methylene chloride	LW20S	0411059-02	11/10/04	8260	Methylene chloride	#N/A	20	U	ug/L
1280	Tetrachloroethene	LW20S	0411059-02	11/10/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
1281	trans-1,2-Dichloroethene	LW20S	0411059-02	11/10/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
1282	trans-1,3-Dichloropropene	LW20S	0411059-02	11/10/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
1283	Trichloroethene	LW20S	0411059-02	11/10/04	8260	Trichloroethene	#N/A	1	U	ug/L
1284	Trichlorofluoromethane	LW20S	0411059-02	11/10/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
1285	Vinyl chloride	LW20S	0411059-02	11/10/04	8260	Vinyl chloride	#N/A	1	U	ug/L
1286	1,2,4-Trichlorobenzene	LW20S	0411059-02	11/10/04	8270	1,2,4-Trichlorobenzene	#N/A	0.976	U	ug/L
1287	1,2-Dichlorobenzene	LW20S	0411059-02	11/10/04	8270	1,2-Dichlorobenzene	#N/A	0.976	U	ug/L
1288	1,3-Dichlorobenzene	LW20S	0411059-02	11/10/04	8270	1,3-Dichlorobenzene	#N/A	0.976	U	ug/L
1289	1,4-Dichlorobenzene	LW20S	0411059-02	11/10/04	8270	1,4-Dichlorobenzene	#N/A	0.976	U	ug/L
1290	2,4-Dichlorophenol	LW20S	0411059-02	11/10/04	8270	2,4-Dichlorophenol	#N/A	2.93	U	ug/L
1291	2,4-Dinitrophenol	LW20S	0411059-02	11/10/04	8270	2,4-Dinitrophenol	#N/A	9.76	U	ug/L
1292	2,4-Dinitrotoluene	LW20S	0411059-02	11/10/04	8270	2,4-Dinitrotoluene	#N/A	4.88	U	ug/L
1293	2,6-Dinitrotoluene	LW20S	0411059-02	11/10/04	8270	2,6-Dinitrotoluene	#N/A	4.88	U	ug/L
1294	2-Chloronaphthalene	LW20S	0411059-02	11/10/04	8270	2-Chloronaphthalene	#N/A	0.976	U	ug/L
1295	2-Chlorophenol	LW20S	0411059-02	11/10/04	8270	2-Chlorophenol	#N/A	0.976	U	ug/L
1296	2-Methylphenol	LW20S	0411059-02	11/10/04	8270	2-Methylphenol	#N/A	1.95	U	ug/L
1297	2-Nitroaniline	LW20S	0411059-02	11/10/04	8270	2-Nitroaniline	#N/A	4.88	U	ug/L
1298	2-Nitrophenol	LW20S	0411059-02	11/10/04	8270	2-Nitrophenol	#N/A	4.88	U	ug/L
1299	3,3'-Dichlorobenzidine	LW20S	0411059-02	11/10/04	8270	3,3'-Dichlorobenzidine	#N/A	4.88	U	ug/L
1300	3-Nitroaniline	LW20S	0411059-02	11/10/04	8270	3-Nitroaniline	#N/A	5.85	U	ug/L
1301	4,6-Dinitro-2-methylphenol	LW20S	0411059-02	11/10/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.76	U	ug/L
1302	4-Bromophenyl phenyl ether	LW20S	0411059-02	11/10/04	8270	4-Bromophenyl phenyl ether	#N/A	0.976	U	ug/L
1303	4-Chloro-3-methylphenol	LW20S	0411059-02	11/10/04	8270	4-Chloro-3-methylphenol	#N/A	1.95	U	ug/L
1304	4-Chloroaniline	LW20S	0411059-02	11/10/04	8270	4-Chloroaniline	#N/A	2.93	U	ug/L
1305	4-Chlorophenyl phenyl ether	LW20S	0411059-02	11/10/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.976	U	ug/L
1306	4-Nitroaniline	LW20S	0411059-02	11/10/04	8270	4-Nitroaniline	#N/A	4.88	U	ug/L
1307	4-Nitrophenol	LW20S	0411059-02	11/10/04	8270	4-Nitrophenol	#N/A	4.88	U	ug/L
1308	Benz(a)anthracene	LW20S	0411059-02	11/10/04	8270	Benz(a)anthracene	#N/A	0.976	U	ug/L
1309	Benzo(a)pyrene	LW20S	0411059-02	11/10/04	8270	Benzo(a)pyrene	#N/A	0.976	U	ug/L
1310	Benzo(b)fluoranthene	LW20S	0411059-02	11/10/04	8270	Benzo(b)fluoranthene	#N/A	0.976	U	ug/L
1311	Benzo(g,h,i)perylene	LW20S	0411059-02	11/10/04	8270	Benzo(g,h,i)perylene	#N/A	0.976	U	ug/L
1312	Benzo(k)fluoranthene	LW20S	0411059-02	11/10/04	8270	Benzo(k)fluoranthene	#N/A	0.976	U	ug/L
1313	Benzyl Alcohol	LW20S	0411059-02	11/10/04	8270	Benzyl Alcohol	#N/A	4.88	U	ug/L
1314	Bis(2-chloroethoxy)methane	LW20S	0411059-02	11/10/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.976	U	ug/L

	A	B	C	D	E	F	G	H	I	J
1315	Bis(2-chloroethyl)ether	LW20S	0411059-02	11/10/04	8270	Bis(2-chloroethyl)ether	#N/A	1.95	U	ug/L
1316	Bis(2-chloroisopropyl)ether	LW20S	0411059-02	11/10/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.976	U	ug/L
1317	Butyl benzyl phthalate	LW20S	0411059-02	11/10/04	8270	Butyl benzyl phthalate	#N/A	0.976	U	ug/L
1318	Carbazole	LW20S	0411059-02	11/10/04	8270	Carbazole	#N/A	0.976	U	ug/L
1319	Chrysene	LW20S	0411059-02	11/10/04	8270	Chrysene	#N/A	0.976	U	ug/L
1320	Dibenz(a,h)anthracene	LW20S	0411059-02	11/10/04	8270	Dibenz(a,h)anthracene	#N/A	0.976	U	ug/L
1321	Diethyl phthalate	LW20S	0411059-02	11/10/04	8270	Diethyl phthalate	#N/A	0.976	U	ug/L
1322	Dimethyl phthalate	LW20S	0411059-02	11/10/04	8270	Dimethyl phthalate	#N/A	0.976	U	ug/L
1323	Di-n-butyl phthalate	LW20S	0411059-02	11/10/04	8270	Di-n-butyl phthalate	#N/A	0.976	U	ug/L
1324	Di-n-octyl phthalate	LW20S	0411059-02	11/10/04	8270	Di-n-octyl phthalate	#N/A	0.976	U	ug/L
1325	Fluoranthene	LW20S	0411059-02	11/10/04	8270	Fluoranthene	#N/A	0.976	U	ug/L
1326	Hexachlorobenzene	LW20S	0411059-02	11/10/04	8270	Hexachlorobenzene	#N/A	0.976	U	ug/L
1327	Hexachlorobutadiene	LW20S	0411059-02	11/10/04	8270	Hexachlorobutadiene	#N/A	1.95	U	ug/L
1328	Hexachlorocyclopentadiene	LW20S	0411059-02	11/10/04	8270	Hexachlorocyclopentadiene	#N/A	4.88	U	ug/L
1329	Hexachloroethane	LW20S	0411059-02	11/10/04	8270	Hexachloroethane	#N/A	1.95	U	ug/L
1330	Indeno(1,2,3-cd)pyrene	LW20S	0411059-02	11/10/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.976	U	ug/L
1331	Nitrobenzene	LW20S	0411059-02	11/10/04	8270	Nitrobenzene	#N/A	0.976	U	ug/L
1332	N-Nitrosodimethylamine	LW20S	0411059-02	11/10/04	8270	N-Nitrosodimethylamine	#N/A	0.976	U	ug/L
1333	N-Nitrosodi-n-propylamine	LW20S	0411059-02	11/10/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.95	U	ug/L
1334	N-Nitrosodiphenylamine	LW20S	0411059-02	11/10/04	8270	N-Nitrosodiphenylamine	#N/A	0.976	U	ug/L
1335	Phenanthrene	LW20S	0411059-02	11/10/04	8270	Phenanthrene	#N/A	**2.37**		ug/L
1336	Pyrene	LW20S	0411059-02	11/10/04	8270	Pyrene	#N/A	0.976	U	ug/L
1337	Pyridine	LW20S	0411059-02	11/10/04	8270	Pyridine	#N/A	4.88	U	ug/L
1338	Benz(a)anthracene	LW20S	0411059-02	11/10/04	8270SIM	Benz(a)anthracene	#N/A	0.0486	U	ug/L
1339	Benzo(a)pyrene	LW20S	0411059-02	11/10/04	8270SIM	Benzo(a)pyrene	#N/A	0.0486	U	ug/L
1340	Benzo(b)fluoranthene	LW20S	0411059-02	11/10/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0486	U	ug/L
1341	Benzo(g,h,i)perylene	LW20S	0411059-02	11/10/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0486	U	ug/L
1342	Benzo(k)fluoranthene	LW20S	0411059-02	11/10/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0486	U	ug/L
1343	Chrysene	LW20S	0411059-02	11/10/04	8270SIM	Chrysene	#N/A	0.0486	U	ug/L
1344	Dibenz(a,h)anthracene	LW20S	0411059-02	11/10/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0486	U	ug/L
1345	Fluoranthene	LW20S	0411059-02	11/10/04	8270SIM	Fluoranthene	#N/A	0.0486	U	ug/L
1346	Indeno(1,2,3-cd)pyrene	LW20S	0411059-02	11/10/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0486	U	ug/L
1347	Phenanthrene	LW20S	0411059-02	11/10/04	8270SIM	Phenanthrene	#N/A	**1.97**		ug/L
1348	Pyrene	LW20S	0411059-02	11/10/04	8270SIM	Pyrene	#N/A	0.0486	U	ug/L
1349	Turbidity	LW20S	0411059-02	11/10/04	FIELD	Turbidity	#N/A	19		ntu
1350	Pentachlorophenol	LW22D	0411059-04	11/10/04	8270	Pentachlorophenol	3	4.9	U	ug/L
1351	Phenol	LW22D	0411059-04	11/10/04	8270	Phenol	13	1.96	U	ug/L
1352	3-&4-Methylphenol	LW22D	0411059-04	11/10/04	8270	3-&4-Methylphenol	14	9.79	U	ug/L
1353	Isophorone	LW22D	0411059-04	11/10/04	8270	Isophorone	15	0.979	U	ug/L
1354	2,4-Dimethylphenol	LW22D	0411059-04	11/10/04	8270	2,4-Dimethylphenol	16	2.94	U	ug/L
1355	Benzoic Acid	LW22D	0411059-04	11/10/04	8270	Benzoic Acid	17	19.6	U	ug/L
1356	Naphthalene	LW22D	0411059-04	11/10/04	8270	Naphthalene	18	0.979	U	ug/L
1357	2-Methylnaphthalene	LW22D	0411059-04	11/10/04	8270	2-Methylnaphthalene	19	0.979	U	ug/L
1358	2,4,6-Trichlorophenol	LW22D	0411059-04	11/10/04	8270	2,4,6-Trichlorophenol	20	4.9	U	ug/L
1359	2,4,5-Trichlorophenol	LW22D	0411059-04	11/10/04	8270	2,4,5-Trichlorophenol	21	4.9	U	ug/L
1360	Acenaphthene	LW22D	0411059-04	11/10/04	8270	Acenaphthene	22	0.979	U	ug/L
1361	Dibenzofuran	LW22D	0411059-04	11/10/04	8270	Dibenzofuran	23	0.979	U	ug/L
1362	Fluorene	LW22D	0411059-04	11/10/04	8270	Fluorene	24	0.979	U	ug/L
1363	Bis(2-ethylhexyl)phthalate	LW22D	0411059-04	11/10/04	8270	Bis(2-ethylhexyl)phthalate	26	0.979	U	ug/L
1364	Acetone	LW22D	0411059-04	11/10/04	8260	Acetone	30	50	U	ug/L
1365	Carbon disulfide	LW22D	0411059-04	11/10/04	8260	Carbon disulfide	31	2	U	ug/L
1366	2-Butanone	LW22D	0411059-04	11/10/04	8260	2-Butanone	32	10	U	ug/L
1367	Benzene	LW22D	0411059-04	11/10/04	8260	Benzene	33	0.3	U	ug/L
1368	Bromoform	LW22D	0411059-04	11/10/04	8260	Bromoform	34	1	U	ug/L
1369	Toluene	LW22D	0411059-04	11/10/04	8260	Toluene	35	1	U	ug/L
1370	Ethylbenzene	LW22D	0411059-04	11/10/04	8260	Ethylbenzene	36	1	U	ug/L
1371	Styrene	LW22D	0411059-04	11/10/04	8260	Styrene	37	1	U	ug/L
1372	m,p-Xylene	LW22D	0411059-04	11/10/04	8260	m,p-Xylene	38	2	U	ug/L
1373	o-Xylene	LW22D	0411059-04	11/10/04	8260	o-Xylene	39	1	U	ug/L
1374	1,3,5-Trimethylbenzene	LW22D	0411059-04	11/10/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
1375	1,2,4-Trimethylbenzene	LW22D	0411059-04	11/10/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
1376	Isopropylbenzene	LW22D	0411059-04	11/10/04	8260	Isopropylbenzene	42	**1.38**		ug/L
1377	n-Propylbenzene	LW22D	0411059-04	11/10/04	8260	n-Propylbenzene	43	1	U	ug/L
1378	tert-Butylbenzene	LW22D	0411059-04	11/10/04	8260	tert-Butylbenzene	44	1	U	ug/L
1379	sec-Butylbenzene	LW22D	0411059-04	11/10/04	8260	sec-Butylbenzene	45	1	U	ug/L
1380	4-Isopropyltoluene	LW22D	0411059-04	11/10/04	8260	4-Isopropyltoluene	46	1	U	ug/L
1381	n-Butylbenzene	LW22D	0411059-04	11/10/04	8260	n-Butylbenzene	47	1	U	ug/L
1382	Naphthalene	LW22D	0411059-04	11/10/04	8260	Naphthalene	48	1	U	ug/L
1383	Methyl tert-butyl ether	LW22D	0411059-04	11/10/04	8260	Methyl tert-butyl ether	49	**2.26**		ug/L
1384	Diesel Range Hydrocarbons	LW22D	0411059-04	11/10/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**1.61**		mg/L
1385	Lube Oil	LW22D	0411059-04	11/10/04	NWTPH-Dx	Lube Oil	54	**1.29**		mg/L
1386	Gasoline Range Hydrocarbons	LW22D	0411059-04	11/10/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	0.1	U	ug/L
1387	Arsenic	LW22D	0411059-04	11/10/04	6020	Arsenic	59	**0.0417**		ug/L

	A	B	C	D	E	F	G	H	I	J
1388	Chromium	LW22D	0411059-04	11/10/04	6010	Chromium	60	0.005	U	mg/L
1389	Copper	LW22D	0411059-04	11/10/04	6010	Copper	61	0.01	U	mg/L
1390	Lead	LW22D	0411059-04	11/10/04	6020	Lead	62	**0.0028**		ug/L
1391	Nickel	LW22D	0411059-04	11/10/04	6010	Nickel	63	0.005	U	mg/L
1392	Zinc	LW22D	0411059-04	11/10/04	6010	Zinc	64	**0.0176**		mg/L
1393	Total Dissolved Solids	LW22D	0411059-04	11/10/04	1601	Total Dissolved Solids	74	**247**	J	mg/L
1394	Chloride	LW22D	0411059-04	11/10/04	9056	Chloride	75	**1.72**		mg/L
1395	pH	LW22D	0411059-04	11/10/04	FIELD	pH	82	6.56		s.u.
1396	Temperature	LW22D	0411059-04	11/10/04	FIELD	Temperature	83	14.5		c
1397	Conductivity	LW22D	0411059-04	11/10/04	FIELD	Conductivity	84	341		us
1398	Dissolved oxygen	LW22D	0411059-04	11/10/04	FIELD	Dissolved oxygen	85	2.57		mg/l
1399	Naphthalene	LW22D	0411059-04	11/10/04	8270SIM	Naphthalene	119	0.052	U	ug/L
1400	Acenaphthylene	LW22D	0411059-04	11/10/04	8270SIM	Acenaphthylene	121	0.052	U	ug/L
1401	Acenaphthene	LW22D	0411059-04	11/10/04	8270SIM	Acenaphthene	122	0.052	U	ug/L
1402	Fluorene	LW22D	0411059-04	11/10/04	8270SIM	Fluorene	123	0.052	U	ug/L
1403	Anthracene	LW22D	0411059-04	11/10/04	8270SIM	Anthracene	124	0.052	U	ug/L
1404	1,1,1,2-Tetrachloroethane	LW22D	0411059-04	11/10/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
1405	1,1,1-Trichloroethane	LW22D	0411059-04	11/10/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
1406	1,1,2,2-Tetrachloroethane	LW22D	0411059-04	11/10/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
1407	1,1,2-Trichloroethane	LW22D	0411059-04	11/10/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
1408	1,1-Dichloroethane	LW22D	0411059-04	11/10/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
1409	1,1-Dichloroethene	LW22D	0411059-04	11/10/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
1410	1,1-Dichloropropene	LW22D	0411059-04	11/10/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
1411	1,2,3-Trichlorobenzene	LW22D	0411059-04	11/10/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
1412	1,2,3-Trichloropropane	LW22D	0411059-04	11/10/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
1413	1,2,4-Trichlorobenzene	LW22D	0411059-04	11/10/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
1414	1,2-Dibromo-3-chloropropane	LW22D	0411059-04	11/10/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
1415	1,2-Dibromoethane	LW22D	0411059-04	11/10/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
1416	1,2-Dichlorobenzene	LW22D	0411059-04	11/10/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
1417	1,2-Dichloroethane	LW22D	0411059-04	11/10/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
1418	1,2-Dichloropropane	LW22D	0411059-04	11/10/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
1419	1,3-Dichlorobenzene	LW22D	0411059-04	11/10/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
1420	1,3-Dichloropropane	LW22D	0411059-04	11/10/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
1421	1,4-Dichlorobenzene	LW22D	0411059-04	11/10/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
1422	2,2-Dichloropropane	LW22D	0411059-04	11/10/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
1423	2-Chlorotoluene	LW22D	0411059-04	11/10/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
1424	2-Hexanone	LW22D	0411059-04	11/10/04	8260	2-Hexanone	#N/A	10	U	ug/L
1425	4-Chlorotoluene	LW22D	0411059-04	11/10/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
1426	4-Methyl-2-pentanone	LW22D	0411059-04	11/10/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
1427	Acrylonitrile	LW22D	0411059-04	11/10/04	8260	Acrylonitrile	#N/A	5	U	ug/L
1428	Bromobenzene	LW22D	0411059-04	11/10/04	8260	Bromobenzene	#N/A	1	U	ug/L
1429	Bromochloromethane	LW22D	0411059-04	11/10/04	8260	Bromochloromethane	#N/A	1	U	ug/L
1430	Bromodichloromethane	LW22D	0411059-04	11/10/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
1431	Bromomethane	LW22D	0411059-04	11/10/04	8260	Bromomethane	#N/A	1	U	ug/L
1432	Carbon tetrachloride	LW22D	0411059-04	11/10/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
1433	Chlorobenzene	LW22D	0411059-04	11/10/04	8260	Chlorobenzene	#N/A	1	U	ug/L
1434	Chloroethane	LW22D	0411059-04	11/10/04	8260	Chloroethane	#N/A	1	U	ug/L
1435	Chloroform	LW22D	0411059-04	11/10/04	8260	Chloroform	#N/A	1	U	ug/L
1436	Chloromethane	LW22D	0411059-04	11/10/04	8260	Chloromethane	#N/A	1	U	ug/L
1437	cis-1,2-Dichloroethene	LW22D	0411059-04	11/10/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
1438	cis-1,3-Dichloropropene	LW22D	0411059-04	11/10/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
1439	Dibromochloromethane	LW22D	0411059-04	11/10/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
1440	Dibromomethane	LW22D	0411059-04	11/10/04	8260	Dibromomethane	#N/A	1	U	ug/L
1441	Dichlorodifluoromethane	LW22D	0411059-04	11/10/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
1442	Hexachlorobutadiene	LW22D	0411059-04	11/10/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
1443	Methylene chloride	LW22D	0411059-04	11/10/04	8260	Methylene chloride	#N/A	20	U	ug/L
1444	Tetrachloroethene	LW22D	0411059-04	11/10/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
1445	trans-1,2-Dichloroethene	LW22D	0411059-04	11/10/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
1446	trans-1,3-Dichloropropene	LW22D	0411059-04	11/10/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
1447	Trichloroethene	LW22D	0411059-04	11/10/04	8260	Trichloroethene	#N/A	1	U	ug/L
1448	Trichlorofluoromethane	LW22D	0411059-04	11/10/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
1449	Vinyl chloride	LW22D	0411059-04	11/10/04	8260	Vinyl chloride	#N/A	1	U	ug/L
1450	1,2,4-Trichlorobenzene	LW22D	0411059-04	11/10/04	8270	1,2,4-Trichlorobenzene	#N/A	0.979	U	ug/L
1451	1,2-Dichlorobenzene	LW22D	0411059-04	11/10/04	8270	1,2-Dichlorobenzene	#N/A	0.979	U	ug/L
1452	1,3-Dichlorobenzene	LW22D	0411059-04	11/10/04	8270	1,3-Dichlorobenzene	#N/A	0.979	U	ug/L
1453	1,4-Dichlorobenzene	LW22D	0411059-04	11/10/04	8270	1,4-Dichlorobenzene	#N/A	0.979	U	ug/L
1454	2,4-Dichlorophenol	LW22D	0411059-04	11/10/04	8270	2,4-Dichlorophenol	#N/A	2.94	U	ug/L
1455	2,4-Dinitrophenol	LW22D	0411059-04	11/10/04	8270	2,4-Dinitrophenol	#N/A	9.79	U	ug/L
1456	2,4-Dinitrotoluene	LW22D	0411059-04	11/10/04	8270	2,4-Dinitrotoluene	#N/A	4.9	U	ug/L
1457	2,6-Dinitrotoluene	LW22D	0411059-04	11/10/04	8270	2,6-Dinitrotoluene	#N/A	4.9	U	ug/L
1458	2-Chloronaphthalene	LW22D	0411059-04	11/10/04	8270	2-Chloronaphthalene	#N/A	0.979	U	ug/L
1459	2-Chlorophenol	LW22D	0411059-04	11/10/04	8270	2-Chlorophenol	#N/A	0.979	U	ug/L
1460	2-Methylphenol	LW22D	0411059-04	11/10/04	8270	2-Methylphenol	#N/A	1.96	U	ug/L

	A	B	C	D	E	F	G	H	I	J
1461	2-Nitroaniline	LW22D	0411059-04	11/10/04	8270	2-Nitroaniline	#N/A	4.9	U	ug/L
1462	2-Nitrophenol	LW22D	0411059-04	11/10/04	8270	2-Nitrophenol	#N/A	4.9	U	ug/L
1463	3,3'-Dichlorobenzidine	LW22D	0411059-04	11/10/04	8270	3,3'-Dichlorobenzidine	#N/A	4.9	U	ug/L
1464	3-Nitroaniline	LW22D	0411059-04	11/10/04	8270	3-Nitroaniline	#N/A	5.88	U	ug/L
1465	4,6-Dinitro-2-methylphenol	LW22D	0411059-04	11/10/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.79	U	ug/L
1466	4-Bromophenyl phenyl ether	LW22D	0411059-04	11/10/04	8270	4-Bromophenyl phenyl ether	#N/A	0.979	U	ug/L
1467	4-Chloro-3-methylphenol	LW22D	0411059-04	11/10/04	8270	4-Chloro-3-methylphenol	#N/A	1.96	U	ug/L
1468	4-Chloroaniline	LW22D	0411059-04	11/10/04	8270	4-Chloroaniline	#N/A	2.94	U	ug/L
1469	4-Chlorophenyl phenyl ether	LW22D	0411059-04	11/10/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.979	U	ug/L
1470	4-Nitroaniline	LW22D	0411059-04	11/10/04	8270	4-Nitroaniline	#N/A	4.9	U	ug/L
1471	4-Nitrophenol	LW22D	0411059-04	11/10/04	8270	4-Nitrophenol	#N/A	4.9	U	ug/L
1472	Benz(a)anthracene	LW22D	0411059-04	11/10/04	8270	Benz(a)anthracene	#N/A	0.979	U	ug/L
1473	Benzo(a)pyrene	LW22D	0411059-04	11/10/04	8270	Benzo(a)pyrene	#N/A	0.979	U	ug/L
1474	Benzo(b)fluoranthene	LW22D	0411059-04	11/10/04	8270	Benzo(b)fluoranthene	#N/A	0.979	U	ug/L
1475	Benzo(g,h,i)perylene	LW22D	0411059-04	11/10/04	8270	Benzo(g,h,i)perylene	#N/A	0.979	U	ug/L
1476	Benzo(k)fluoranthene	LW22D	0411059-04	11/10/04	8270	Benzo(k)fluoranthene	#N/A	0.979	U	ug/L
1477	Benzyl Alcohol	LW22D	0411059-04	11/10/04	8270	Benzyl Alcohol	#N/A	4.9	U	ug/L
1478	Bis(2-chloroethoxy)methane	LW22D	0411059-04	11/10/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.979	U	ug/L
1479	Bis(2-chloroethyl)ether	LW22D	0411059-04	11/10/04	8270	Bis(2-chloroethyl)ether	#N/A	1.96	U	ug/L
1480	Bis(2-chloroisopropyl)ether	LW22D	0411059-04	11/10/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.979	U	ug/L
1481	Butyl benzyl phthalate	LW22D	0411059-04	11/10/04	8270	Butyl benzyl phthalate	#N/A	0.979	U	ug/L
1482	Carbazole	LW22D	0411059-04	11/10/04	8270	Carbazole	#N/A	0.979	U	ug/L
1483	Chrysene	LW22D	0411059-04	11/10/04	8270	Chrysene	#N/A	0.979	U	ug/L
1484	Dibenz(a,h)anthracene	LW22D	0411059-04	11/10/04	8270	Dibenz(a,h)anthracene	#N/A	0.979	U	ug/L
1485	Diethyl phthalate	LW22D	0411059-04	11/10/04	8270	Diethyl phthalate	#N/A	0.979	U	ug/L
1486	Dimethyl phthalate	LW22D	0411059-04	11/10/04	8270	Dimethyl phthalate	#N/A	0.979	U	ug/L
1487	Di-n-butyl phthalate	LW22D	0411059-04	11/10/04	8270	Di-n-butyl phthalate	#N/A	0.979	U	ug/L
1488	Di-n-octyl phthalate	LW22D	0411059-04	11/10/04	8270	Di-n-octyl phthalate	#N/A	0.979	U	ug/L
1489	Fluoranthene	LW22D	0411059-04	11/10/04	8270	Fluoranthene	#N/A	0.979	U	ug/L
1490	Hexachlorobenzene	LW22D	0411059-04	11/10/04	8270	Hexachlorobenzene	#N/A	0.979	U	ug/L
1491	Hexachlorobutadiene	LW22D	0411059-04	11/10/04	8270	Hexachlorobutadiene	#N/A	1.96	U	ug/L
1492	Hexachlorocyclopentadiene	LW22D	0411059-04	11/10/04	8270	Hexachlorocyclopentadiene	#N/A	4.9	U	ug/L
1493	Hexachloroethane	LW22D	0411059-04	11/10/04	8270	Hexachloroethane	#N/A	1.96	U	ug/L
1494	Indeno(1,2,3-cd)pyrene	LW22D	0411059-04	11/10/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.979	U	ug/L
1495	Nitrobenzene	LW22D	0411059-04	11/10/04	8270	Nitrobenzene	#N/A	0.979	U	ug/L
1496	N-Nitrosodimethylamine	LW22D	0411059-04	11/10/04	8270	N-Nitrosodimethylamine	#N/A	0.979	U	ug/L
1497	N-Nitrosodi-n-propylamine	LW22D	0411059-04	11/10/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.96	U	ug/L
1498	N-Nitrosodiphenylamine	LW22D	0411059-04	11/10/04	8270	N-Nitrosodiphenylamine	#N/A	0.979	U	ug/L
1499	Phenanthrene	LW22D	0411059-04	11/10/04	8270	Phenanthrene	#N/A	0.979	U	ug/L
1500	Pyrene	LW22D	0411059-04	11/10/04	8270	Pyrene	#N/A	0.979	U	ug/L
1501	Pyridine	LW22D	0411059-04	11/10/04	8270	Pyridine	#N/A	4.9	U	ug/L
1502	Benz(a)anthracene	LW22D	0411059-04	11/10/04	8270SIM	Benz(a)anthracene	#N/A	0.052	U	ug/L
1503	Benzo(a)pyrene	LW22D	0411059-04	11/10/04	8270SIM	Benzo(a)pyrene	#N/A	0.052	U	ug/L
1504	Benzo(b)fluoranthene	LW22D	0411059-04	11/10/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.052	U	ug/L
1505	Benzo(g,h,i)perylene	LW22D	0411059-04	11/10/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.052	U	ug/L
1506	Benzo(k)fluoranthene	LW22D	0411059-04	11/10/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.052	U	ug/L
1507	Chrysene	LW22D	0411059-04	11/10/04	8270SIM	Chrysene	#N/A	0.052	U	ug/L
1508	Dibenz(a,h)anthracene	LW22D	0411059-04	11/10/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.052	U	ug/L
1509	Fluoranthene	LW22D	0411059-04	11/10/04	8270SIM	Fluoranthene	#N/A	**0.0624**		ug/L
1510	Indeno(1,2,3-cd)pyrene	LW22D	0411059-04	11/10/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.052	U	ug/L
1511	Phenanthrene	LW22D	0411059-04	11/10/04	8270SIM	Phenanthrene	#N/A	0.052	U	ug/L
1512	Pyrene	LW22D	0411059-04	11/10/04	8270SIM	Pyrene	#N/A	**0.0832**		ug/L
1513	Turbidity	LW22D	0411059-04	11/10/04	FIELD	Turbidity	#N/A	485		ntu
1514	Pentachlorophenol	LW23D	0411065-01	11/11/04	8270	Pentachlorophenol	3	5.12	U	ug/L
1515	Phenol	LW23D	0411065-01	11/11/04	8270	Phenol	13	2.05	U	ug/L
1516	3-&4-Methylphenol	LW23D	0411065-01	11/11/04	8270	3-&4-Methylphenol	14	10.2	U	ug/L
1517	Isophorone	LW23D	0411065-01	11/11/04	8270	Isophorone	15	1.02	U	ug/L
1518	2,4-Dimethylphenol	LW23D	0411065-01	11/11/04	8270	2,4-Dimethylphenol	16	3.07	U	ug/L
1519	Benzoic Acid	LW23D	0411065-01	11/11/04	8270	Benzoic Acid	17	20.5	U	ug/L
1520	Naphthalene	LW23D	0411065-01	11/11/04	8270	Naphthalene	18	1.02	U	ug/L
1521	2-Methylnaphthalene	LW23D	0411065-01	11/11/04	8270	2-Methylnaphthalene	19	1.02	U	ug/L
1522	2,4,6-Trichlorophenol	LW23D	0411065-01	11/11/04	8270	2,4,6-Trichlorophenol	20	5.12	U	ug/L
1523	2,4,5-Trichlorophenol	LW23D	0411065-01	11/11/04	8270	2,4,5-Trichlorophenol	21	5.12	U	ug/L
1524	Acenaphthene	LW23D	0411065-01	11/11/04	8270	Acenaphthene	22	1.02	U	ug/L
1525	Dibenzofuran	LW23D	0411065-01	11/11/04	8270	Dibenzofuran	23	1.02	U	ug/L
1526	Fluorene	LW23D	0411065-01	11/11/04	8270	Fluorene	24	1.02	U	ug/L
1527	Bis(2-ethylhexyl)phthalate	LW23D	0411065-01	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	**3.52**		ug/L
1528	Acetone	LW23D	0411065-01	11/11/04	8260	Acetone	30	50	U	ug/L
1529	Carbon disulfide	LW23D	0411065-01	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
1530	2-Butanone	LW23D	0411065-01	11/11/04	8260	2-Butanone	32	10	U	ug/L
1531	Benzene	LW23D	0411065-01	11/11/04	8260	Benzene	33	**12.1**		ug/L
1532	Bromoform	LW23D	0411065-01	11/11/04	8260	Bromoform	34	1	U	ug/L
1533	Toluene	LW23D	0411065-01	11/11/04	8260	Toluene	35	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
1534	Ethylbenzene	LW23D	0411065-01	11/11/04	8260	Ethylbenzene	36	1	U	ug/L
1535	Styrene	LW23D	0411065-01	11/11/04	8260	Styrene	37	1	U	ug/L
1536	m,p-Xylene	LW23D	0411065-01	11/11/04	8260	m,p-Xylene	38	2	U	ug/L
1537	o-Xylene	LW23D	0411065-01	11/11/04	8260	o-Xylene	39	**1.22**		ug/L
1538	1,3,5-Trimethylbenzene	LW23D	0411065-01	11/11/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
1539	1,2,4-Trimethylbenzene	LW23D	0411065-01	11/11/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
1540	Isopropylbenzene	LW23D	0411065-01	11/11/04	8260	Isopropylbenzene	42	**14.5**		ug/L
1541	n-Propylbenzene	LW23D	0411065-01	11/11/04	8260	n-Propylbenzene	43	**4.79**		ug/L
1542	tert-Butylbenzene	LW23D	0411065-01	11/11/04	8260	tert-Butylbenzene	44	1	U	ug/L
1543	sec-Butylbenzene	LW23D	0411065-01	11/11/04	8260	sec-Butylbenzene	45	**2.08**		ug/L
1544	4-Isopropyltoluene	LW23D	0411065-01	11/11/04	8260	4-Isopropyltoluene	46	1	U	ug/L
1545	n-Butylbenzene	LW23D	0411065-01	11/11/04	8260	n-Butylbenzene	47	**1.45**		ug/L
1546	Naphthalene	LW23D	0411065-01	11/11/04	8260	Naphthalene	48	1	U	ug/L
1547	Methyl tert-butyl ether	LW23D	0411065-01	11/11/04	8260	Methyl tert-butyl ether	49	**7.93**		ug/L
1548	Diesel Range Hydrocarbons	LW23D	0411065-01	11/11/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**2.94**		mg/L
1549	Lube Oil	LW23D	0411065-01	11/11/04	NWTPH-Dx	Lube Oil	54	**1.2**		mg/L
1550	Gasoline Range Hydrocarbons	LW23D	0411065-01	11/11/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**1.23**		ug/L
1551	Arsenic	LW23D	0411065-01	11/11/04	6020	Arsenic	59	**0.0574**		ug/L
1552	Chromium	LW23D	0411065-01	11/11/04	6010	Chromium	60	**0.037**		mg/L
1553	Copper	LW23D	0411065-01	11/11/04	6010	Copper	61	**0.0387**		mg/L
1554	Lead	LW23D	0411065-01	11/11/04	6020	Lead	62	**0.0169**		ug/L
1555	Nickel	LW23D	0411065-01	11/11/04	6010	Nickel	63	0.005	U	mg/L
1556	Zinc	LW23D	0411065-01	11/11/04	6010	Zinc	64	**0.0754**		mg/L
1557	Total Dissolved Solids	LW23D	0411065-01	11/11/04	1601	Total Dissolved Solids	74	**371**		mg/L
1558	Chloride	LW23D	0411065-01	11/11/04	9056	Chloride	75	**2.59**		mg/L
1559	pH	LW23D	0411065-01	11/11/04	FIELD	pH	82	6.86		s.u.
1560	Temperature	LW23D	0411065-01	11/11/04	FIELD	Temperature	83	14.5		c
1561	Conductivity	LW23D	0411065-01	11/11/04	FIELD	Conductivity	84	579		us
1562	Dissolved oxygen	LW23D	0411065-01	11/11/04	FIELD	Dissolved oxygen	85	0.68		mg/l
1563	Naphthalene	LW23D	0411065-01	11/11/04	8270SIM	Naphthalene	119	**0.526**		ug/L
1564	Acenaphthylene	LW23D	0411065-01	11/11/04	8270SIM	Acenaphthylene	121	**0.115**		ug/L
1565	Acenaphthene	LW23D	0411065-01	11/11/04	8270SIM	Acenaphthene	122	**0.698**		ug/L
1566	Fluorene	LW23D	0411065-01	11/11/04	8270SIM	Fluorene	123	**0.277**		ug/L
1567	Anthracene	LW23D	0411065-01	11/11/04	8270SIM	Anthracene	124	**0.0478**		ug/L
1568	1,1,1,2-Tetrachloroethane	LW23D	0411065-01	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
1569	1,1,1-Trichloroethane	LW23D	0411065-01	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
1570	1,1,2,2-Tetrachloroethane	LW23D	0411065-01	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
1571	1,1,2-Trichloroethane	LW23D	0411065-01	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
1572	1,1-Dichloroethane	LW23D	0411065-01	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
1573	1,1-Dichloroethene	LW23D	0411065-01	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
1574	1,1-Dichloropropene	LW23D	0411065-01	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
1575	1,2,3-Trichlorobenzene	LW23D	0411065-01	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
1576	1,2,3-Trichloropropane	LW23D	0411065-01	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
1577	1,2,4-Trichlorobenzene	LW23D	0411065-01	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
1578	1,2-Dibromo-3-chloropropane	LW23D	0411065-01	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
1579	1,2-Dibromoethane	LW23D	0411065-01	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
1580	1,2-Dichlorobenzene	LW23D	0411065-01	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
1581	1,2-Dichloroethane	LW23D	0411065-01	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
1582	1,2-Dichloropropane	LW23D	0411065-01	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
1583	1,3-Dichlorobenzene	LW23D	0411065-01	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
1584	1,3-Dichloropropane	LW23D	0411065-01	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
1585	1,4-Dichlorobenzene	LW23D	0411065-01	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
1586	2,2-Dichloropropane	LW23D	0411065-01	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
1587	2-Chlorotoluene	LW23D	0411065-01	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
1588	2-Hexanone	LW23D	0411065-01	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
1589	4-Chlorotoluene	LW23D	0411065-01	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
1590	4-Methyl-2-pentanone	LW23D	0411065-01	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
1591	Acrylonitrile	LW23D	0411065-01	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
1592	Bromobenzene	LW23D	0411065-01	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
1593	Bromochloromethane	LW23D	0411065-01	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
1594	Bromodichloromethane	LW23D	0411065-01	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
1595	Bromomethane	LW23D	0411065-01	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
1596	Carbon tetrachloride	LW23D	0411065-01	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
1597	Chlorobenzene	LW23D	0411065-01	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
1598	Chloroethane	LW23D	0411065-01	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
1599	Chloroform	LW23D	0411065-01	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
1600	Chloromethane	LW23D	0411065-01	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
1601	cis-1,2-Dichloroethene	LW23D	0411065-01	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
1602	cis-1,3-Dichloropropene	LW23D	0411065-01	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
1603	Dibromochloromethane	LW23D	0411065-01	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
1604	Dibromomethane	LW23D	0411065-01	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
1605	Dichlorodifluoromethane	LW23D	0411065-01	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
1606	Hexachlorobutadiene	LW23D	0411065-01	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
1607	Methylene chloride	LW23D	0411065-01	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
1608	Tetrachloroethene	LW23D	0411065-01	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
1609	trans-1,2-Dichloroethene	LW23D	0411065-01	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
1610	trans-1,3-Dichloropropene	LW23D	0411065-01	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
1611	Trichloroethene	LW23D	0411065-01	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
1612	Trichlorofluoromethane	LW23D	0411065-01	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
1613	Vinyl chloride	LW23D	0411065-01	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
1614	1,2,4-Trichlorobenzene	LW23D	0411065-01	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	1.02	U	ug/L
1615	1,2-Dichlorobenzene	LW23D	0411065-01	11/11/04	8270	1,2-Dichlorobenzene	#N/A	1.02	U	ug/L
1616	1,3-Dichlorobenzene	LW23D	0411065-01	11/11/04	8270	1,3-Dichlorobenzene	#N/A	1.02	U	ug/L
1617	1,4-Dichlorobenzene	LW23D	0411065-01	11/11/04	8270	1,4-Dichlorobenzene	#N/A	1.02	U	ug/L
1618	2,4-Dichlorophenol	LW23D	0411065-01	11/11/04	8270	2,4-Dichlorophenol	#N/A	3.07	U	ug/L
1619	2,4-Dinitrophenol	LW23D	0411065-01	11/11/04	8270	2,4-Dinitrophenol	#N/A	10.2	U	ug/L
1620	2,4-Dinitrotoluene	LW23D	0411065-01	11/11/04	8270	2,4-Dinitrotoluene	#N/A	5.12	U	ug/L
1621	2,6-Dinitrotoluene	LW23D	0411065-01	11/11/04	8270	2,6-Dinitrotoluene	#N/A	5.12	U	ug/L
1622	2-Chloronaphthalene	LW23D	0411065-01	11/11/04	8270	2-Chloronaphthalene	#N/A	1.02	U	ug/L
1623	2-Chlorophenol	LW23D	0411065-01	11/11/04	8270	2-Chlorophenol	#N/A	1.02	U	ug/L
1624	2-Methylphenol	LW23D	0411065-01	11/11/04	8270	2-Methylphenol	#N/A	2.05	U	ug/L
1625	2-Nitroaniline	LW23D	0411065-01	11/11/04	8270	2-Nitroaniline	#N/A	5.12	U	ug/L
1626	2-Nitrophenol	LW23D	0411065-01	11/11/04	8270	2-Nitrophenol	#N/A	5.12	U	ug/L
1627	3,3'-Dichlorobenzidine	LW23D	0411065-01	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	5.12	U	ug/L
1628	3-Nitroaniline	LW23D	0411065-01	11/11/04	8270	3-Nitroaniline	#N/A	6.15	U	ug/L
1629	4,6-Dinitro-2-methylphenol	LW23D	0411065-01	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.2	U	ug/L
1630	4-Bromophenyl phenyl ether	LW23D	0411065-01	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	1.02	U	ug/L
1631	4-Chloro-3-methylphenol	LW23D	0411065-01	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	2.05	U	ug/L
1632	4-Chloroaniline	LW23D	0411065-01	11/11/04	8270	4-Chloroaniline	#N/A	3.07	U	ug/L
1633	4-Chlorophenyl phenyl ether	LW23D	0411065-01	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.02	U	ug/L
1634	4-Nitroaniline	LW23D	0411065-01	11/11/04	8270	4-Nitroaniline	#N/A	5.12	U	ug/L
1635	4-Nitrophenol	LW23D	0411065-01	11/11/04	8270	4-Nitrophenol	#N/A	5.12	U	ug/L
1636	Benz(a)anthracene	LW23D	0411065-01	11/11/04	8270	Benz(a)anthracene	#N/A	1.02	U	ug/L
1637	Benzo(a)pyrene	LW23D	0411065-01	11/11/04	8270	Benzo(a)pyrene	#N/A	1.02	U	ug/L
1638	Benzo(b)fluoranthene	LW23D	0411065-01	11/11/04	8270	Benzo(b)fluoranthene	#N/A	1.02	U	ug/L
1639	Benzo(g,h,i)perylene	LW23D	0411065-01	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	1.02	U	ug/L
1640	Benzo(k)fluoranthene	LW23D	0411065-01	11/11/04	8270	Benzo(k)fluoranthene	#N/A	1.02	U	ug/L
1641	Benzyl Alcohol	LW23D	0411065-01	11/11/04	8270	Benzyl Alcohol	#N/A	5.12	U	ug/L
1642	Bis(2-chloroethoxy)methane	LW23D	0411065-01	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.02	U	ug/L
1643	Bis(2-chloroethyl)ether	LW23D	0411065-01	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	2.05	U	ug/L
1644	Bis(2-chloroisopropyl)ether	LW23D	0411065-01	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.02	U	ug/L
1645	Butyl benzyl phthalate	LW23D	0411065-01	11/11/04	8270	Butyl benzyl phthalate	#N/A	1.02	U	ug/L
1646	Carbazole	LW23D	0411065-01	11/11/04	8270	Carbazole	#N/A	1.02	U	ug/L
1647	Chrysene	LW23D	0411065-01	11/11/04	8270	Chrysene	#N/A	1.02	U	ug/L
1648	Dibenz(a,h)anthracene	LW23D	0411065-01	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	1.02	U	ug/L
1649	Diethyl phthalate	LW23D	0411065-01	11/11/04	8270	Diethyl phthalate	#N/A	1.02	U	ug/L
1650	Dimethyl phthalate	LW23D	0411065-01	11/11/04	8270	Dimethyl phthalate	#N/A	1.02	U	ug/L
1651	Di-n-butyl phthalate	LW23D	0411065-01	11/11/04	8270	Di-n-butyl phthalate	#N/A	1.02	U	ug/L
1652	Di-n-octyl phthalate	LW23D	0411065-01	11/11/04	8270	Di-n-octyl phthalate	#N/A	1.02	U	ug/L
1653	Fluoranthene	LW23D	0411065-01	11/11/04	8270	Fluoranthene	#N/A	1.02	U	ug/L
1654	Hexachlorobenzene	LW23D	0411065-01	11/11/04	8270	Hexachlorobenzene	#N/A	1.02	U	ug/L
1655	Hexachlorobutadiene	LW23D	0411065-01	11/11/04	8270	Hexachlorobutadiene	#N/A	2.05	U	ug/L
1656	Hexachlorocyclopentadiene	LW23D	0411065-01	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	5.12	U	ug/L
1657	Hexachloroethane	LW23D	0411065-01	11/11/04	8270	Hexachloroethane	#N/A	2.05	U	ug/L
1658	Indeno(1,2,3-cd)pyrene	LW23D	0411065-01	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.02	U	ug/L
1659	Nitrobenzene	LW23D	0411065-01	11/11/04	8270	Nitrobenzene	#N/A	1.02	U	ug/L
1660	N-Nitrosodimethylamine	LW23D	0411065-01	11/11/04	8270	N-Nitrosodimethylamine	#N/A	1.02	U	ug/L
1661	N-Nitrosodi-n-propylamine	LW23D	0411065-01	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.05	U	ug/L
1662	N-Nitrosodiphenylamine	LW23D	0411065-01	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	1.02	U	ug/L
1663	Phenanthrene	LW23D	0411065-01	11/11/04	8270	Phenanthrene	#N/A	1.02	U	ug/L
1664	Pyrene	LW23D	0411065-01	11/11/04	8270	Pyrene	#N/A	1.02	U	ug/L
1665	Pyridine	LW23D	0411065-01	11/11/04	8270	Pyridine	#N/A	5.12	U	ug/L
1666	Benz(a)anthracene	LW23D	0411065-01	11/11/04	8270SIM	Benz(a)anthracene	#N/A	0.0478	U	ug/L
1667	Benzo(a)pyrene	LW23D	0411065-01	11/11/04	8270SIM	Benzo(a)pyrene	#N/A	0.0478	U	ug/L
1668	Benzo(b)fluoranthene	LW23D	0411065-01	11/11/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0478	U	ug/L
1669	Benzo(g,h,i)perylene	LW23D	0411065-01	11/11/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0478	U	ug/L
1670	Benzo(k)fluoranthene	LW23D	0411065-01	11/11/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0478	U	ug/L
1671	Chrysene	LW23D	0411065-01	11/11/04	8270SIM	Chrysene	#N/A	0.0478	U	ug/L
1672	Dibenz(a,h)anthracene	LW23D	0411065-01	11/11/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0478	U	ug/L
1673	Fluoranthene	LW23D	0411065-01	11/11/04	8270SIM	Fluoranthene	#N/A	**0.0669**		ug/L
1674	Indeno(1,2,3-cd)pyrene	LW23D	0411065-01	11/11/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0478	U	ug/L
1675	Phenanthrene	LW23D	0411065-01	11/11/04	8270SIM	Phenanthrene	#N/A	**0.124**		ug/L
1676	Pyrene	LW23D	0411065-01	11/11/04	8270SIM	Pyrene	#N/A	**0.0765**		ug/L
1677	Turbidity	LW23D	0411065-01	11/11/04	FIELD	Turbidity	#N/A	426		ntu
1678	Pentachlorophenol	LW24D	0411065-02	11/11/04	8270	Pentachlorophenol	3	4.78	U	ug/L
1679	Phenol	LW24D	0411065-02	11/11/04	8270	Phenol	13	1.91	U	ug/L

	A	B	C	D	E	F	G	H	I	J
1680	3-&4-Methylphenol	LW24D	0411065-02	11/11/04	8270	3-&4-Methylphenol	14	9.55	U	ug/L
1681	Isophorone	LW24D	0411065-02	11/11/04	8270	Isophorone	15	0.955	U	ug/L
1682	2,4-Dimethylphenol	LW24D	0411065-02	11/11/04	8270	2,4-Dimethylphenol	16	2.87	U	ug/L
1683	Benzoic Acid	LW24D	0411065-02	11/11/04	8270	Benzoic Acid	17	19.1	U	ug/L
1684	Naphthalene	LW24D	0411065-02	11/11/04	8270	Naphthalene	18	0.955	U	ug/L
1685	2-Methylnaphthalene	LW24D	0411065-02	11/11/04	8270	2-Methylnaphthalene	19	0.955	U	ug/L
1686	2,4,6-Trichlorophenol	LW24D	0411065-02	11/11/04	8270	2,4,6-Trichlorophenol	20	4.78	U	ug/L
1687	2,4,5-Trichlorophenol	LW24D	0411065-02	11/11/04	8270	2,4,5-Trichlorophenol	21	4.78	U	ug/L
1688	Acenaphthene	LW24D	0411065-02	11/11/04	8270	Acenaphthene	22	**1.43**		ug/L
1689	Dibenzofuran	LW24D	0411065-02	11/11/04	8270	Dibenzofuran	23	0.955	U	ug/L
1690	Fluorene	LW24D	0411065-02	11/11/04	8270	Fluorene	24	**3.47**		ug/L
1691	Bis(2-ethylhexyl)phthalate	LW24D	0411065-02	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	**2.93**		ug/L
1692	Acetone	LW24D	0411065-02	11/11/04	8260	Acetone	30	50	U	ug/L
1693	Carbon disulfide	LW24D	0411065-02	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
1694	2-Butanone	LW24D	0411065-02	11/11/04	8260	2-Butanone	32	10	U	ug/L
1695	Benzene	LW24D	0411065-02	11/11/04	8260	Benzene	33	0.3	U	ug/L
1696	Bromoform	LW24D	0411065-02	11/11/04	8260	Bromoform	34	1	U	ug/L
1697	Toluene	LW24D	0411065-02	11/11/04	8260	Toluene	35	1	U	ug/L
1698	Ethylbenzene	LW24D	0411065-02	11/11/04	8260	Ethylbenzene	36	1	U	ug/L
1699	Styrene	LW24D	0411065-02	11/11/04	8260	Styrene	37	1	U	ug/L
1700	m,p-Xylene	LW24D	0411065-02	11/11/04	8260	m,p-Xylene	38	2	U	ug/L
1701	o-Xylene	LW24D	0411065-02	11/11/04	8260	o-Xylene	39	**1.31**		ug/L
1702	1,3,5-Trimethylbenzene	LW24D	0411065-02	11/11/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
1703	1,2,4-Trimethylbenzene	LW24D	0411065-02	11/11/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
1704	Isopropylbenzene	LW24D	0411065-02	11/11/04	8260	Isopropylbenzene	42	**10.6**		ug/L
1705	n-Propylbenzene	LW24D	0411065-02	11/11/04	8260	n-Propylbenzene	43	**10.3**		ug/L
1706	tert-Butylbenzene	LW24D	0411065-02	11/11/04	8260	tert-Butylbenzene	44	1	U	ug/L
1707	sec-Butylbenzene	LW24D	0411065-02	11/11/04	8260	sec-Butylbenzene	45	**4.08**		ug/L
1708	4-Isopropyltoluene	LW24D	0411065-02	11/11/04	8260	4-Isopropyltoluene	46	1	U	ug/L
1709	n-Butylbenzene	LW24D	0411065-02	11/11/04	8260	n-Butylbenzene	47	**3.3**		ug/L
1710	Naphthalene	LW24D	0411065-02	11/11/04	8260	Naphthalene	48	1	U	ug/L
1711	Methyl tert-butyl ether	LW24D	0411065-02	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
1712	Diesel Range Hydrocarbons	LW24D	0411065-02	11/11/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**3.87**		mg/L
1713	Lube Oil	LW24D	0411065-02	11/11/04	NWTPH-Dx	Lube Oil	54	**1.24**		mg/L
1714	Gasoline Range Hydrocarbons	LW24D	0411065-02	11/11/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**1.64**		ug/L
1715	Arsenic	LW24D	0411065-02	11/11/04	6020	Arsenic	59	**0.0525**		ug/L
1716	Chromium	LW24D	0411065-02	11/11/04	6010	Chromium	60	**0.0422**		mg/L
1717	Copper	LW24D	0411065-02	11/11/04	6010	Copper	61	**0.0424**		mg/L
1718	Lead	LW24D	0411065-02	11/11/04	6020	Lead	62	**0.0256**		ug/L
1719	Nickel	LW24D	0411065-02	11/11/04	6010	Nickel	63	**0.0237**		mg/L
1720	Zinc	LW24D	0411065-02	11/11/04	6010	Zinc	64	**0.124**		mg/L
1721	Total Dissolved Solids	LW24D	0411065-02	11/11/04	1601	Total Dissolved Solids	74	**347**		mg/L
1722	Chloride	LW24D	0411065-02	11/11/04	9056	Chloride	75	**2.8**		mg/L
1723	pH	LW24D	0411065-02	11/11/04	FIELD	pH	82	6.86		s.u.
1724	Temperature	LW24D	0411065-02	11/11/04	FIELD	Temperature	83	15		c
1725	Conductivity	LW24D	0411065-02	11/11/04	FIELD	Conductivity	84	457		us
1726	Dissolved oxygen	LW24D	0411065-02	11/11/04	FIELD	Dissolved oxygen	85	0.86		mg/l
1727	Naphthalene	LW24D	0411065-02	11/11/04	8270SIM	Naphthalene	119	**0.829**		ug/L
1728	Acenaphthylene	LW24D	0411065-02	11/11/04	8270SIM	Acenaphthylene	121	**0.357**		ug/L
1729	Acenaphthene	LW24D	0411065-02	11/11/04	8270SIM	Acenaphthene	122	**1.45**		ug/L
1730	Fluorene	LW24D	0411065-02	11/11/04	8270SIM	Fluorene	123	**3.73**		ug/L
1731	Anthracene	LW24D	0411065-02	11/11/04	8270SIM	Anthracene	124	**0.154**		ug/L
1732	1,1,1,2-Tetrachloroethane	LW24D	0411065-02	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
1733	1,1,1-Trichloroethane	LW24D	0411065-02	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
1734	1,1,2,2-Tetrachloroethane	LW24D	0411065-02	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
1735	1,1,2-Trichloroethane	LW24D	0411065-02	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
1736	1,1-Dichloroethane	LW24D	0411065-02	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
1737	1,1-Dichloroethene	LW24D	0411065-02	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
1738	1,1-Dichloropropene	LW24D	0411065-02	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
1739	1,2,3-Trichlorobenzene	LW24D	0411065-02	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
1740	1,2,3-Trichloropropane	LW24D	0411065-02	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
1741	1,2,4-Trichlorobenzene	LW24D	0411065-02	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
1742	1,2-Dibromo-3-chloropropane	LW24D	0411065-02	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
1743	1,2-Dibromoethane	LW24D	0411065-02	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
1744	1,2-Dichlorobenzene	LW24D	0411065-02	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
1745	1,2-Dichloroethane	LW24D	0411065-02	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
1746	1,2-Dichloropropane	LW24D	0411065-02	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
1747	1,3-Dichlorobenzene	LW24D	0411065-02	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
1748	1,3-Dichloropropane	LW24D	0411065-02	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
1749	1,4-Dichlorobenzene	LW24D	0411065-02	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
1750	2,2-Dichloropropane	LW24D	0411065-02	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
1751	2-Chlorotoluene	LW24D	0411065-02	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
1752	2-Hexanone	LW24D	0411065-02	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L

	A	B	C	D	E	F	G	H	I	J
1753	4-Chlorotoluene	LW24D	0411065-02	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
1754	4-Methyl-2-pentanone	LW24D	0411065-02	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
1755	Acrylonitrile	LW24D	0411065-02	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
1756	Bromobenzene	LW24D	0411065-02	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
1757	Bromochloromethane	LW24D	0411065-02	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
1758	Bromodichloromethane	LW24D	0411065-02	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
1759	Bromomethane	LW24D	0411065-02	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
1760	Carbon tetrachloride	LW24D	0411065-02	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
1761	Chlorobenzene	LW24D	0411065-02	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
1762	Chloroethane	LW24D	0411065-02	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
1763	Chloroform	LW24D	0411065-02	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
1764	Chloromethane	LW24D	0411065-02	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
1765	cis-1,2-Dichloroethene	LW24D	0411065-02	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
1766	cis-1,3-Dichloropropene	LW24D	0411065-02	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
1767	Dibromochloromethane	LW24D	0411065-02	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
1768	Dibromomethane	LW24D	0411065-02	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
1769	Dichlorodifluoromethane	LW24D	0411065-02	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
1770	Hexachlorobutadiene	LW24D	0411065-02	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
1771	Methylene chloride	LW24D	0411065-02	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
1772	Tetrachloroethene	LW24D	0411065-02	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
1773	trans-1,2-Dichloroethene	LW24D	0411065-02	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
1774	trans-1,3-Dichloropropene	LW24D	0411065-02	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
1775	Trichloroethene	LW24D	0411065-02	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
1776	Trichlorofluoromethane	LW24D	0411065-02	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
1777	Vinyl chloride	LW24D	0411065-02	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
1778	1,2,4-Trichlorobenzene	LW24D	0411065-02	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	0.955	U	ug/L
1779	1,2-Dichlorobenzene	LW24D	0411065-02	11/11/04	8270	1,2-Dichlorobenzene	#N/A	0.955	U	ug/L
1780	1,3-Dichlorobenzene	LW24D	0411065-02	11/11/04	8270	1,3-Dichlorobenzene	#N/A	0.955	U	ug/L
1781	1,4-Dichlorobenzene	LW24D	0411065-02	11/11/04	8270	1,4-Dichlorobenzene	#N/A	0.955	U	ug/L
1782	2,4-Dichlorophenol	LW24D	0411065-02	11/11/04	8270	2,4-Dichlorophenol	#N/A	2.87	U	ug/L
1783	2,4-Dinitrophenol	LW24D	0411065-02	11/11/04	8270	2,4-Dinitrophenol	#N/A	9.55	U	ug/L
1784	2,4-Dinitrotoluene	LW24D	0411065-02	11/11/04	8270	2,4-Dinitrotoluene	#N/A	4.78	U	ug/L
1785	2,6-Dinitrotoluene	LW24D	0411065-02	11/11/04	8270	2,6-Dinitrotoluene	#N/A	4.78	U	ug/L
1786	2-Chloronaphthalene	LW24D	0411065-02	11/11/04	8270	2-Chloronaphthalene	#N/A	0.955	U	ug/L
1787	2-Chlorophenol	LW24D	0411065-02	11/11/04	8270	2-Chlorophenol	#N/A	0.955	U	ug/L
1788	2-Methylphenol	LW24D	0411065-02	11/11/04	8270	2-Methylphenol	#N/A	1.91	U	ug/L
1789	2-Nitroaniline	LW24D	0411065-02	11/11/04	8270	2-Nitroaniline	#N/A	4.78	U	ug/L
1790	2-Nitrophenol	LW24D	0411065-02	11/11/04	8270	2-Nitrophenol	#N/A	4.78	U	ug/L
1791	3,3'-Dichlorobenzidine	LW24D	0411065-02	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	4.78	U	ug/L
1792	3-Nitroaniline	LW24D	0411065-02	11/11/04	8270	3-Nitroaniline	#N/A	5.73	U	ug/L
1793	4,6-Dinitro-2-methylphenol	LW24D	0411065-02	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.55	U	ug/L
1794	4-Bromophenyl phenyl ether	LW24D	0411065-02	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	0.955	U	ug/L
1795	4-Chloro-3-methylphenol	LW24D	0411065-02	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	1.91	U	ug/L
1796	4-Chloroaniline	LW24D	0411065-02	11/11/04	8270	4-Chloroaniline	#N/A	2.87	U	ug/L
1797	4-Chlorophenyl phenyl ether	LW24D	0411065-02	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.955	U	ug/L
1798	4-Nitroaniline	LW24D	0411065-02	11/11/04	8270	4-Nitroaniline	#N/A	4.78	U	ug/L
1799	4-Nitrophenol	LW24D	0411065-02	11/11/04	8270	4-Nitrophenol	#N/A	4.78	U	ug/L
1800	Benz(a)anthracene	LW24D	0411065-02	11/11/04	8270	Benz(a)anthracene	#N/A	0.955	U	ug/L
1801	Benzo(a)pyrene	LW24D	0411065-02	11/11/04	8270	Benzo(a)pyrene	#N/A	0.955	U	ug/L
1802	Benzo(b)fluoranthene	LW24D	0411065-02	11/11/04	8270	Benzo(b)fluoranthene	#N/A	0.955	U	ug/L
1803	Benzo(g,h,i)perylene	LW24D	0411065-02	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	0.955	U	ug/L
1804	Benzo(k)fluoranthene	LW24D	0411065-02	11/11/04	8270	Benzo(k)fluoranthene	#N/A	0.955	U	ug/L
1805	Benzyl Alcohol	LW24D	0411065-02	11/11/04	8270	Benzyl Alcohol	#N/A	4.78	U	ug/L
1806	Bis(2-chloroethoxy)methane	LW24D	0411065-02	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.955	U	ug/L
1807	Bis(2-chloroethyl)ether	LW24D	0411065-02	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	1.91	U	ug/L
1808	Bis(2-chloroisopropyl)ether	LW24D	0411065-02	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.955	U	ug/L
1809	Butyl benzyl phthalate	LW24D	0411065-02	11/11/04	8270	Butyl benzyl phthalate	#N/A	0.955	U	ug/L
1810	Carbazole	LW24D	0411065-02	11/11/04	8270	Carbazole	#N/A	0.955	U	ug/L
1811	Chrysene	LW24D	0411065-02	11/11/04	8270	Chrysene	#N/A	0.955	U	ug/L
1812	Dibenz(a,h)anthracene	LW24D	0411065-02	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	0.955	U	ug/L
1813	Diethyl phthalate	LW24D	0411065-02	11/11/04	8270	Diethyl phthalate	#N/A	0.955	U	ug/L
1814	Dimethyl phthalate	LW24D	0411065-02	11/11/04	8270	Dimethyl phthalate	#N/A	0.955	U	ug/L
1815	Di-n-butyl phthalate	LW24D	0411065-02	11/11/04	8270	Di-n-butyl phthalate	#N/A	0.955	U	ug/L
1816	Di-n-octyl phthalate	LW24D	0411065-02	11/11/04	8270	Di-n-octyl phthalate	#N/A	0.955	U	ug/L
1817	Fluoranthene	LW24D	0411065-02	11/11/04	8270	Fluoranthene	#N/A	0.955	U	ug/L
1818	Hexachlorobenzene	LW24D	0411065-02	11/11/04	8270	Hexachlorobenzene	#N/A	0.955	U	ug/L
1819	Hexachlorobutadiene	LW24D	0411065-02	11/11/04	8270	Hexachlorobutadiene	#N/A	1.91	U	ug/L
1820	Hexachlorocyclopentadiene	LW24D	0411065-02	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	4.78	U	ug/L
1821	Hexachloroethane	LW24D	0411065-02	11/11/04	8270	Hexachloroethane	#N/A	1.91	U	ug/L
1822	Indeno(1,2,3-cd)pyrene	LW24D	0411065-02	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.955	U	ug/L
1823	Nitrobenzene	LW24D	0411065-02	11/11/04	8270	Nitrobenzene	#N/A	0.955	U	ug/L
1824	N-Nitrosodimethylamine	LW24D	0411065-02	11/11/04	8270	N-Nitrosodimethylamine	#N/A	0.955	U	ug/L
1825	N-Nitrosodi-n-propylamine	LW24D	0411065-02	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.91	U	ug/L

	A	B	C	D	E	F	G	H	I	J
1826	N-Nitrosodiphenylamine	LW24D	0411065-02	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	0.955	U	ug/L
1827	Phenanthrene	LW24D	0411065-02	11/11/04	8270	Phenanthrene	#N/A	**2.76**		ug/L
1828	Pyrene	LW24D	0411065-02	11/11/04	8270	Pyrene	#N/A	0.955	U	ug/L
1829	Pyridine	LW24D	0411065-02	11/11/04	8270	Pyridine	#N/A	4.78	U	ug/L
1830	Benz(a)anthracene	LW24D	0411065-02	11/11/04	8270SIM	Benz(a)anthracene	#N/A	0.0482	U	ug/L
1831	Benzo(a)pyrene	LW24D	0411065-02	11/11/04	8270SIM	Benzo(a)pyrene	#N/A	0.0482	U	ug/L
1832	Benzo(b)fluoranthene	LW24D	0411065-02	11/11/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0482	U	ug/L
1833	Benzo(g,h,i)perylene	LW24D	0411065-02	11/11/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0482	U	ug/L
1834	Benzo(k)fluoranthene	LW24D	0411065-02	11/11/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0482	U	ug/L
1835	Chrysene	LW24D	0411065-02	11/11/04	8270SIM	Chrysene	#N/A	0.0482	U	ug/L
1836	Dibenz(a,h)anthracene	LW24D	0411065-02	11/11/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0482	U	ug/L
1837	Fluoranthene	LW24D	0411065-02	11/11/04	8270SIM	Fluoranthene	#N/A	**0.154**		ug/L
1838	Indeno(1,2,3-cd)pyrene	LW24D	0411065-02	11/11/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0482	U	ug/L
1839	Phenanthrene	LW24D	0411065-02	11/11/04	8270SIM	Phenanthrene	#N/A	**1.81**		ug/L
1840	Pyrene	LW24D	0411065-02	11/11/04	8270SIM	Pyrene	#N/A	**0.145**		ug/L
1841	Turbidity	LW24D	0411065-02	11/11/04	FIELD	Turbidity	#N/A	999		ntu
1842	Pentachlorophenol	LW25D	0411065-03	11/11/04	8270	Pentachlorophenol	3	4.92	U	ug/L
1843	Phenol	LW25D	0411065-03	11/11/04	8270	Phenol	13	1.97	U	ug/L
1844	3-&4-Methylphenol	LW25D	0411065-03	11/11/04	8270	3-&4-Methylphenol	14	9.84	U	ug/L
1845	Isophorone	LW25D	0411065-03	11/11/04	8270	Isophorone	15	0.984	U	ug/L
1846	2,4-Dimethylphenol	LW25D	0411065-03	11/11/04	8270	2,4-Dimethylphenol	16	2.95	U	ug/L
1847	Benzoic Acid	LW25D	0411065-03	11/11/04	8270	Benzoic Acid	17	19.7	U	ug/L
1848	Naphthalene	LW25D	0411065-03	11/11/04	8270	Naphthalene	18	0.984	U	ug/L
1849	2-Methylnaphthalene	LW25D	0411065-03	11/11/04	8270	2-Methylnaphthalene	19	0.984	U	ug/L
1850	2,4,6-Trichlorophenol	LW25D	0411065-03	11/11/04	8270	2,4,6-Trichlorophenol	20	4.92	U	ug/L
1851	2,4,5-Trichlorophenol	LW25D	0411065-03	11/11/04	8270	2,4,5-Trichlorophenol	21	4.92	U	ug/L
1852	Acenaphthene	LW25D	0411065-03	11/11/04	8270	Acenaphthene	22	**1.4**		ug/L
1853	Dibenzofuran	LW25D	0411065-03	11/11/04	8270	Dibenzofuran	23	0.984	U	ug/L
1854	Fluorene	LW25D	0411065-03	11/11/04	8270	Fluorene	24	**2.98**		ug/L
1855	Bis(2-ethylhexyl)phthalate	LW25D	0411065-03	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	**5.88**		ug/L
1856	Acetone	LW25D	0411065-03	11/11/04	8260	Acetone	30	50	U	ug/L
1857	Carbon disulfide	LW25D	0411065-03	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
1858	2-Butanone	LW25D	0411065-03	11/11/04	8260	2-Butanone	32	10	U	ug/L
1859	Benzene	LW25D	0411065-03	11/11/04	8260	Benzene	33	0.3	U	ug/L
1860	Bromoform	LW25D	0411065-03	11/11/04	8260	Bromoform	34	1	U	ug/L
1861	Toluene	LW25D	0411065-03	11/11/04	8260	Toluene	35	1	U	ug/L
1862	Ethylbenzene	LW25D	0411065-03	11/11/04	8260	Ethylbenzene	36	1	U	ug/L
1863	Styrene	LW25D	0411065-03	11/11/04	8260	Styrene	37	1	U	ug/L
1864	m,p-Xylene	LW25D	0411065-03	11/11/04	8260	m,p-Xylene	38	2	U	ug/L
1865	o-Xylene	LW25D	0411065-03	11/11/04	8260	o-Xylene	39	**1.36**		ug/L
1866	1,3,5-Trimethylbenzene	LW25D	0411065-03	11/11/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
1867	1,2,4-Trimethylbenzene	LW25D	0411065-03	11/11/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
1868	Isopropylbenzene	LW25D	0411065-03	11/11/04	8260	Isopropylbenzene	42	**4.09**		ug/L
1869	n-Propylbenzene	LW25D	0411065-03	11/11/04	8260	n-Propylbenzene	43	1	U	ug/L
1870	tert-Butylbenzene	LW25D	0411065-03	11/11/04	8260	tert-Butylbenzene	44	1	U	ug/L
1871	sec-Butylbenzene	LW25D	0411065-03	11/11/04	8260	sec-Butylbenzene	45	**1.77**		ug/L
1872	4-Isopropyltoluene	LW25D	0411065-03	11/11/04	8260	4-Isopropyltoluene	46	1	U	ug/L
1873	n-Butylbenzene	LW25D	0411065-03	11/11/04	8260	n-Butylbenzene	47	1	U	ug/L
1874	Naphthalene	LW25D	0411065-03	11/11/04	8260	Naphthalene	48	1	U	ug/L
1875	Methyl tert-butyl ether	LW25D	0411065-03	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
1876	Diesel Range Hydrocarbons	LW25D	0411065-03	11/11/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**2.54**		mg/L
1877	Lube Oil	LW25D	0411065-03	11/11/04	NWTPH-Dx	Lube Oil	54	**1.04**		mg/L
1878	Gasoline Range Hydrocarbons	LW25D	0411065-03	11/11/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**1.38**		ug/L
1879	Arsenic	LW25D	0411065-03	11/11/04	6020	Arsenic	59	**0.064**		ug/L
1880	Chromium	LW25D	0411065-03	11/11/04	6010	Chromium	60	**0.0862**		mg/L
1881	Copper	LW25D	0411065-03	11/11/04	6010	Copper	61	**0.0865**		mg/L
1882	Lead	LW25D	0411065-03	11/11/04	6020	Lead	62	**0.0658**		ug/L
1883	Nickel	LW25D	0411065-03	11/11/04	6010	Nickel	63	**0.0603**		mg/L
1884	Zinc	LW25D	0411065-03	11/11/04	6010	Zinc	64	**0.269**		mg/L
1885	Total Dissolved Solids	LW25D	0411065-03	11/11/04	1601	Total Dissolved Solids	74	**253**		mg/L
1886	Chloride	LW25D	0411065-03	11/11/04	9056	Chloride	75	**2.26**		mg/L
1887	pH	LW25D	0411065-03	11/11/04	FIELD	pH	82	6.8		s.u.
1888	Temperature	LW25D	0411065-03	11/11/04	FIELD	Temperature	83	15.2		c
1889	Conductivity	LW25D	0411065-03	11/11/04	FIELD	Conductivity	84	384		us
1890	Dissolved oxygen	LW25D	0411065-03	11/11/04	FIELD	Dissolved oxygen	85	0.56		mg/l
1891	Naphthalene	LW25D	0411065-03	11/11/04	8270SIM	Naphthalene	119	**0.694**		ug/L
1892	Acenaphthylene	LW25D	0411065-03	11/11/04	8270SIM	Acenaphthylene	121	**0.262**		ug/L
1893	Acenaphthene	LW25D	0411065-03	11/11/04	8270SIM	Acenaphthene	122	**1.13**		ug/L
1894	Fluorene	LW25D	0411065-03	11/11/04	8270SIM	Fluorene	123	**2.57**		ug/L
1895	Anthracene	LW25D	0411065-03	11/11/04	8270SIM	Anthracene	124	**0.231**		ug/L
1896	1,1,1,2-Tetrachloroethane	LW25D	0411065-03	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
1897	1,1,1-Trichloroethane	LW25D	0411065-03	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
1898	1,1,2,2-Tetrachloroethane	LW25D	0411065-03	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
1899	1,1,2-Trichloroethane	LW25D	0411065-03	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
1900	1,1-Dichloroethane	LW25D	0411065-03	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
1901	1,1-Dichloroethene	LW25D	0411065-03	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
1902	1,1-Dichloropropene	LW25D	0411065-03	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
1903	1,2,3-Trichlorobenzene	LW25D	0411065-03	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
1904	1,2,3-Trichloropropane	LW25D	0411065-03	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
1905	1,2,4-Trichlorobenzene	LW25D	0411065-03	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
1906	1,2-Dibromo-3-chloropropane	LW25D	0411065-03	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
1907	1,2-Dibromoethane	LW25D	0411065-03	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
1908	1,2-Dichlorobenzene	LW25D	0411065-03	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
1909	1,2-Dichloroethane	LW25D	0411065-03	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
1910	1,2-Dichloropropane	LW25D	0411065-03	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
1911	1,3-Dichlorobenzene	LW25D	0411065-03	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
1912	1,3-Dichloropropane	LW25D	0411065-03	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
1913	1,4-Dichlorobenzene	LW25D	0411065-03	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
1914	2,2-Dichloropropane	LW25D	0411065-03	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
1915	2-Chlorotoluene	LW25D	0411065-03	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
1916	2-Hexanone	LW25D	0411065-03	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
1917	4-Chlorotoluene	LW25D	0411065-03	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
1918	4-Methyl-2-pentanone	LW25D	0411065-03	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
1919	Acrylonitrile	LW25D	0411065-03	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
1920	Bromobenzene	LW25D	0411065-03	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
1921	Bromochloromethane	LW25D	0411065-03	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
1922	Bromodichloromethane	LW25D	0411065-03	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
1923	Bromomethane	LW25D	0411065-03	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
1924	Carbon tetrachloride	LW25D	0411065-03	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
1925	Chlorobenzene	LW25D	0411065-03	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
1926	Chloroethane	LW25D	0411065-03	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
1927	Chloroform	LW25D	0411065-03	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
1928	Chloromethane	LW25D	0411065-03	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
1929	cis-1,2-Dichloroethene	LW25D	0411065-03	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
1930	cis-1,3-Dichloropropene	LW25D	0411065-03	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
1931	Dibromochloromethane	LW25D	0411065-03	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
1932	Dibromomethane	LW25D	0411065-03	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
1933	Dichlorodifluoromethane	LW25D	0411065-03	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
1934	Hexachlorobutadiene	LW25D	0411065-03	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
1935	Methylene chloride	LW25D	0411065-03	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
1936	Tetrachloroethene	LW25D	0411065-03	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
1937	trans-1,2-Dichloroethene	LW25D	0411065-03	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
1938	trans-1,3-Dichloropropene	LW25D	0411065-03	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
1939	Trichloroethene	LW25D	0411065-03	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
1940	Trichlorofluoromethane	LW25D	0411065-03	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
1941	Vinyl chloride	LW25D	0411065-03	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
1942	1,2,4-Trichlorobenzene	LW25D	0411065-03	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	0.984	U	ug/L
1943	1,2-Dichlorobenzene	LW25D	0411065-03	11/11/04	8270	1,2-Dichlorobenzene	#N/A	0.984	U	ug/L
1944	1,3-Dichlorobenzene	LW25D	0411065-03	11/11/04	8270	1,3-Dichlorobenzene	#N/A	0.984	U	ug/L
1945	1,4-Dichlorobenzene	LW25D	0411065-03	11/11/04	8270	1,4-Dichlorobenzene	#N/A	0.984	U	ug/L
1946	2,4-Dichlorophenol	LW25D	0411065-03	11/11/04	8270	2,4-Dichlorophenol	#N/A	2.95	U	ug/L
1947	2,4-Dinitrophenol	LW25D	0411065-03	11/11/04	8270	2,4-Dinitrophenol	#N/A	9.84	U	ug/L
1948	2,4-Dinitrotoluene	LW25D	0411065-03	11/11/04	8270	2,4-Dinitrotoluene	#N/A	4.92	U	ug/L
1949	2,6-Dinitrotoluene	LW25D	0411065-03	11/11/04	8270	2,6-Dinitrotoluene	#N/A	4.92	U	ug/L
1950	2-Chloronaphthalene	LW25D	0411065-03	11/11/04	8270	2-Chloronaphthalene	#N/A	0.984	U	ug/L
1951	2-Chlorophenol	LW25D	0411065-03	11/11/04	8270	2-Chlorophenol	#N/A	0.984	U	ug/L
1952	2-Methylphenol	LW25D	0411065-03	11/11/04	8270	2-Methylphenol	#N/A	1.97	U	ug/L
1953	2-Nitroaniline	LW25D	0411065-03	11/11/04	8270	2-Nitroaniline	#N/A	4.92	U	ug/L
1954	2-Nitrophenol	LW25D	0411065-03	11/11/04	8270	2-Nitrophenol	#N/A	4.92	U	ug/L
1955	3,3'-Dichlorobenzidine	LW25D	0411065-03	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	4.92	U	ug/L
1956	3-Nitroaniline	LW25D	0411065-03	11/11/04	8270	3-Nitroaniline	#N/A	5.91	U	ug/L
1957	4,6-Dinitro-2-methylphenol	LW25D	0411065-03	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.84	U	ug/L
1958	4-Bromophenyl phenyl ether	LW25D	0411065-03	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	0.984	U	ug/L
1959	4-Chloro-3-methylphenol	LW25D	0411065-03	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	1.97	U	ug/L
1960	4-Chloroaniline	LW25D	0411065-03	11/11/04	8270	4-Chloroaniline	#N/A	2.95	U	ug/L
1961	4-Chlorophenyl phenyl ether	LW25D	0411065-03	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.984	U	ug/L
1962	4-Nitroaniline	LW25D	0411065-03	11/11/04	8270	4-Nitroaniline	#N/A	4.92	U	ug/L
1963	4-Nitrophenol	LW25D	0411065-03	11/11/04	8270	4-Nitrophenol	#N/A	4.92	U	ug/L
1964	Benz(a)anthracene	LW25D	0411065-03	11/11/04	8270	Benz(a)anthracene	#N/A	0.984	U	ug/L
1965	Benzo(a)pyrene	LW25D	0411065-03	11/11/04	8270	Benzo(a)pyrene	#N/A	0.984	U	ug/L
1966	Benzo(b)fluoranthene	LW25D	0411065-03	11/11/04	8270	Benzo(b)fluoranthene	#N/A	0.984	U	ug/L
1967	Benzo(g,h,i)perylene	LW25D	0411065-03	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	0.984	U	ug/L
1968	Benzo(k)fluoranthene	LW25D	0411065-03	11/11/04	8270	Benzo(k)fluoranthene	#N/A	0.984	U	ug/L
1969	Benzyl Alcohol	LW25D	0411065-03	11/11/04	8270	Benzyl Alcohol	#N/A	4.92	U	ug/L
1970	Bis(2-chloroethoxy)methane	LW25D	0411065-03	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.984	U	ug/L
1971	Bis(2-chloroethyl)ether	LW25D	0411065-03	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	1.97	U	ug/L

	A	B	C	D	E	F	G	H	I	J
1972	Bis(2-chloroisopropyl)ether	LW25D	0411065-03	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.984	U	ug/L
1973	Butyl benzyl phthalate	LW25D	0411065-03	11/11/04	8270	Butyl benzyl phthalate	#N/A	0.984	U	ug/L
1974	Carbazole	LW25D	0411065-03	11/11/04	8270	Carbazole	#N/A	0.984	U	ug/L
1975	Chrysene	LW25D	0411065-03	11/11/04	8270	Chrysene	#N/A	0.984	U	ug/L
1976	Dibenz(a,h)anthracene	LW25D	0411065-03	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	0.984	U	ug/L
1977	Diethyl phthalate	LW25D	0411065-03	11/11/04	8270	Diethyl phthalate	#N/A	0.984	U	ug/L
1978	Dimethyl phthalate	LW25D	0411065-03	11/11/04	8270	Dimethyl phthalate	#N/A	0.984	U	ug/L
1979	Di-n-butyl phthalate	LW25D	0411065-03	11/11/04	8270	Di-n-butyl phthalate	#N/A	0.984	U	ug/L
1980	Di-n-octyl phthalate	LW25D	0411065-03	11/11/04	8270	Di-n-octyl phthalate	#N/A	0.984	U	ug/L
1981	Fluoranthene	LW25D	0411065-03	11/11/04	8270	Fluoranthene	#N/A	0.984	U	ug/L
1982	Hexachlorobenzene	LW25D	0411065-03	11/11/04	8270	Hexachlorobenzene	#N/A	0.984	U	ug/L
1983	Hexachlorobutadiene	LW25D	0411065-03	11/11/04	8270	Hexachlorobutadiene	#N/A	1.97	U	ug/L
1984	Hexachlorocyclopentadiene	LW25D	0411065-03	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	4.92	U	ug/L
1985	Hexachloroethane	LW25D	0411065-03	11/11/04	8270	Hexachloroethane	#N/A	1.97	U	ug/L
1986	Indeno(1,2,3-cd)pyrene	LW25D	0411065-03	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.984	U	ug/L
1987	Nitrobenzene	LW25D	0411065-03	11/11/04	8270	Nitrobenzene	#N/A	0.984	U	ug/L
1988	N-Nitrosodimethylamine	LW25D	0411065-03	11/11/04	8270	N-Nitrosodimethylamine	#N/A	0.984	U	ug/L
1989	N-Nitrosodi-n-propylamine	LW25D	0411065-03	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.97	U	ug/L
1990	N-Nitrosodiphenylamine	LW25D	0411065-03	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	0.984	U	ug/L
1991	Phenanthrene	LW25D	0411065-03	11/11/04	8270	Phenanthrene	#N/A	**1.88**		ug/L
1992	Pyrene	LW25D	0411065-03	11/11/04	8270	Pyrene	#N/A	0.984	U	ug/L
1993	Pyridine	LW25D	0411065-03	11/11/04	8270	Pyridine	#N/A	4.92	U	ug/L
1994	Benz(a)anthracene	LW25D	0411065-03	11/11/04	8270SIM	Benz(a)anthracene	#N/A	**0.0604**		ug/L
1995	Benzo(a)pyrene	LW25D	0411065-03	11/11/04	8270SIM	Benzo(a)pyrene	#N/A	0.0503	U	ug/L
1996	Benzo(b)fluoranthene	LW25D	0411065-03	11/11/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0503	U	ug/L
1997	Benzo(g,h,i)perylene	LW25D	0411065-03	11/11/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0503	U	ug/L
1998	Benzo(k)fluoranthene	LW25D	0411065-03	11/11/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0503	U	ug/L
1999	Chrysene	LW25D	0411065-03	11/11/04	8270SIM	Chrysene	#N/A	0.0503	U	ug/L
2000	Dibenz(a,h)anthracene	LW25D	0411065-03	11/11/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0503	U	ug/L
2001	Fluoranthene	LW25D	0411065-03	11/11/04	8270SIM	Fluoranthene	#N/A	**0.392**		ug/L
2002	Indeno(1,2,3-cd)pyrene	LW25D	0411065-03	11/11/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0503	U	ug/L
2003	Phenanthrene	LW25D	0411065-03	11/11/04	8270SIM	Phenanthrene	#N/A	**1.22**		ug/L
2004	Pyrene	LW25D	0411065-03	11/11/04	8270SIM	Pyrene	#N/A	**0.342**		ug/L
2005	Turbidity	LW25D	0411065-03	11/11/04	FIELD	Turbidity	#N/A	999		ntu
2006	Pentachlorophenol	LW26D	0411059-05	11/10/04	8270	Pentachlorophenol	3	4.87	U	ug/L
2007	Phenol	LW26D	0411059-05	11/10/04	8270	Phenol	13	1.95	U	ug/L
2008	3-&4-Methylphenol	LW26D	0411059-05	11/10/04	8270	3-&4-Methylphenol	14	9.75	U	ug/L
2009	Isophorone	LW26D	0411059-05	11/10/04	8270	Isophorone	15	0.975	U	ug/L
2010	2,4-Dimethylphenol	LW26D	0411059-05	11/10/04	8270	2,4-Dimethylphenol	16	2.92	U	ug/L
2011	Benzoic Acid	LW26D	0411059-05	11/10/04	8270	Benzoic Acid	17	19.5	U	ug/L
2012	Naphthalene	LW26D	0411059-05	11/10/04	8270	Naphthalene	18	0.975	U	ug/L
2013	2-Methylnaphthalene	LW26D	0411059-05	11/10/04	8270	2-Methylnaphthalene	19	0.975	U	ug/L
2014	2,4,6-Trichlorophenol	LW26D	0411059-05	11/10/04	8270	2,4,6-Trichlorophenol	20	4.87	U	ug/L
2015	2,4,5-Trichlorophenol	LW26D	0411059-05	11/10/04	8270	2,4,5-Trichlorophenol	21	4.87	U	ug/L
2016	Acenaphthene	LW26D	0411059-05	11/10/04	8270	Acenaphthene	22	0.975	U	ug/L
2017	Dibenzofuran	LW26D	0411059-05	11/10/04	8270	Dibenzofuran	23	0.975	U	ug/L
2018	Fluorene	LW26D	0411059-05	11/10/04	8270	Fluorene	24	0.975	U	ug/L
2019	Bis(2-ethylhexyl)phthalate	LW26D	0411059-05	11/10/04	8270	Bis(2-ethylhexyl)phthalate	26	0.975	U	ug/L
2020	Acetone	LW26D	0411059-05	11/10/04	8260	Acetone	30	50	U	ug/L
2021	Carbon disulfide	LW26D	0411059-05	11/10/04	8260	Carbon disulfide	31	2	U	ug/L
2022	2-Butanone	LW26D	0411059-05	11/10/04	8260	2-Butanone	32	10	U	ug/L
2023	Benzene	LW26D	0411059-05	11/10/04	8260	Benzene	33	**0.4**		ug/L
2024	Bromoform	LW26D	0411059-05	11/10/04	8260	Bromoform	34	1	U	ug/L
2025	Toluene	LW26D	0411059-05	11/10/04	8260	Toluene	35	1	U	ug/L
2026	Ethylbenzene	LW26D	0411059-05	11/10/04	8260	Ethylbenzene	36	1	U	ug/L
2027	Styrene	LW26D	0411059-05	11/10/04	8260	Styrene	37	1	U	ug/L
2028	m,p-Xylene	LW26D	0411059-05	11/10/04	8260	m,p-Xylene	38	2	U	ug/L
2029	o-Xylene	LW26D	0411059-05	11/10/04	8260	o-Xylene	39	1	U	ug/L
2030	1,3,5-Trimethylbenzene	LW26D	0411059-05	11/10/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
2031	1,2,4-Trimethylbenzene	LW26D	0411059-05	11/10/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
2032	Isopropylbenzene	LW26D	0411059-05	11/10/04	8260	Isopropylbenzene	42	**1**		ug/L
2033	n-Propylbenzene	LW26D	0411059-05	11/10/04	8260	n-Propylbenzene	43	1	U	ug/L
2034	tert-Butylbenzene	LW26D	0411059-05	11/10/04	8260	tert-Butylbenzene	44	1	U	ug/L
2035	sec-Butylbenzene	LW26D	0411059-05	11/10/04	8260	sec-Butylbenzene	45	1	U	ug/L
2036	4-Isopropyltoluene	LW26D	0411059-05	11/10/04	8260	4-Isopropyltoluene	46	1	U	ug/L
2037	n-Butylbenzene	LW26D	0411059-05	11/10/04	8260	n-Butylbenzene	47	1	U	ug/L
2038	Naphthalene	LW26D	0411059-05	11/10/04	8260	Naphthalene	48	1	U	ug/L
2039	Methyl tert-butyl ether	LW26D	0411059-05	11/10/04	8260	Methyl tert-butyl ether	49	**3.32**		ug/L
2040	Diesel Range Hydrocarbons	LW26D	0411059-05	11/10/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**2.18**		mg/L
2041	Lube Oil	LW26D	0411059-05	11/10/04	NWTPH-Dx	Lube Oil	54	**1.4**		mg/L
2042	Gasoline Range Hydrocarbons	LW26D	0411059-05	11/10/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**0.211**		ug/L
2043	Arsenic	LW26D	0411059-05	11/10/04	6020	Arsenic	59	**0.0108**		ug/L
2044	Chromium	LW26D	0411059-05	11/10/04	6010	Chromium	60	**0.0212**		mg/L

	A	B	C	D	E	F	G	H	I	J
2045	Copper	LW26D	0411059-05	11/10/04	6010	Copper	61	**0.0132**		mg/L
2046	Lead	LW26D	0411059-05	11/10/04	6020	Lead	62	**0.00353**		ug/L
2047	Nickel	LW26D	0411059-05	11/10/04	6010	Nickel	63	0.005	U	mg/L
2048	Zinc	LW26D	0411059-05	11/10/04	6010	Zinc	64	**0.0276**		mg/L
2049	Total Dissolved Solids	LW26D	0411059-05	11/10/04	1601	Total Dissolved Solids	74	**331**	J	mg/L
2050	Chloride	LW26D	0411059-05	11/10/04	9056	Chloride	75	**2.93**		mg/L
2051	pH	LW26D	0411059-05	11/10/04	FIELD	pH	82	7.06		s.u.
2052	Temperature	LW26D	0411059-05	11/10/04	FIELD	Temperature	83	14		c
2053	Conductivity	LW26D	0411059-05	11/10/04	FIELD	Conductivity	84	442		us
2054	Dissolved oxygen	LW26D	0411059-05	11/10/04	FIELD	Dissolved oxygen	85	1.6		mg/l
2055	Naphthalene	LW26D	0411059-05	11/10/04	8270SIM	Naphthalene	119	**0.0916**		ug/L
2056	Acenaphthylene	LW26D	0411059-05	11/10/04	8270SIM	Acenaphthylene	121	**0.0509**		ug/L
2057	Acenaphthene	LW26D	0411059-05	11/10/04	8270SIM	Acenaphthene	122	**0.0509**		ug/L
2058	Fluorene	LW26D	0411059-05	11/10/04	8270SIM	Fluorene	123	**0.204**		ug/L
2059	Anthracene	LW26D	0411059-05	11/10/04	8270SIM	Anthracene	124	0.0509	U	ug/L
2060	1,1,1,2-Tetrachloroethane	LW26D	0411059-05	11/10/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
2061	1,1,1-Trichloroethane	LW26D	0411059-05	11/10/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
2062	1,1,2,2-Tetrachloroethane	LW26D	0411059-05	11/10/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
2063	1,1,2-Trichloroethane	LW26D	0411059-05	11/10/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
2064	1,1-Dichloroethane	LW26D	0411059-05	11/10/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
2065	1,1-Dichloroethene	LW26D	0411059-05	11/10/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
2066	1,1-Dichloropropene	LW26D	0411059-05	11/10/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
2067	1,2,3-Trichlorobenzene	LW26D	0411059-05	11/10/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
2068	1,2,3-Trichloropropane	LW26D	0411059-05	11/10/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
2069	1,2,4-Trichlorobenzene	LW26D	0411059-05	11/10/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
2070	1,2-Dibromo-3-chloropropane	LW26D	0411059-05	11/10/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
2071	1,2-Dibromoethane	LW26D	0411059-05	11/10/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
2072	1,2-Dichlorobenzene	LW26D	0411059-05	11/10/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
2073	1,2-Dichloroethane	LW26D	0411059-05	11/10/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
2074	1,2-Dichloropropane	LW26D	0411059-05	11/10/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
2075	1,3-Dichlorobenzene	LW26D	0411059-05	11/10/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
2076	1,3-Dichloropropane	LW26D	0411059-05	11/10/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
2077	1,4-Dichlorobenzene	LW26D	0411059-05	11/10/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
2078	2,2-Dichloropropane	LW26D	0411059-05	11/10/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
2079	2-Chlorotoluene	LW26D	0411059-05	11/10/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
2080	2-Hexanone	LW26D	0411059-05	11/10/04	8260	2-Hexanone	#N/A	10	U	ug/L
2081	4-Chlorotoluene	LW26D	0411059-05	11/10/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
2082	4-Methyl-2-pentanone	LW26D	0411059-05	11/10/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
2083	Acrylonitrile	LW26D	0411059-05	11/10/04	8260	Acrylonitrile	#N/A	5	U	ug/L
2084	Bromobenzene	LW26D	0411059-05	11/10/04	8260	Bromobenzene	#N/A	1	U	ug/L
2085	Bromochloromethane	LW26D	0411059-05	11/10/04	8260	Bromochloromethane	#N/A	1	U	ug/L
2086	Bromodichloromethane	LW26D	0411059-05	11/10/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
2087	Bromomethane	LW26D	0411059-05	11/10/04	8260	Bromomethane	#N/A	1	U	ug/L
2088	Carbon tetrachloride	LW26D	0411059-05	11/10/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
2089	Chlorobenzene	LW26D	0411059-05	11/10/04	8260	Chlorobenzene	#N/A	1	U	ug/L
2090	Chloroethane	LW26D	0411059-05	11/10/04	8260	Chloroethane	#N/A	1	U	ug/L
2091	Chloroform	LW26D	0411059-05	11/10/04	8260	Chloroform	#N/A	1	U	ug/L
2092	Chloromethane	LW26D	0411059-05	11/10/04	8260	Chloromethane	#N/A	1	U	ug/L
2093	cis-1,2-Dichloroethene	LW26D	0411059-05	11/10/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
2094	cis-1,3-Dichloropropene	LW26D	0411059-05	11/10/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
2095	Dibromochloromethane	LW26D	0411059-05	11/10/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
2096	Dibromomethane	LW26D	0411059-05	11/10/04	8260	Dibromomethane	#N/A	1	U	ug/L
2097	Dichlorodifluoromethane	LW26D	0411059-05	11/10/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
2098	Hexachlorobutadiene	LW26D	0411059-05	11/10/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
2099	Methylene chloride	LW26D	0411059-05	11/10/04	8260	Methylene chloride	#N/A	20	U	ug/L
2100	Tetrachloroethene	LW26D	0411059-05	11/10/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
2101	trans-1,2-Dichloroethene	LW26D	0411059-05	11/10/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
2102	trans-1,3-Dichloropropene	LW26D	0411059-05	11/10/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
2103	Trichloroethene	LW26D	0411059-05	11/10/04	8260	Trichloroethene	#N/A	1	U	ug/L
2104	Trichlorofluoromethane	LW26D	0411059-05	11/10/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
2105	Vinyl chloride	LW26D	0411059-05	11/10/04	8260	Vinyl chloride	#N/A	1	U	ug/L
2106	1,2,4-Trichlorobenzene	LW26D	0411059-05	11/10/04	8270	1,2,4-Trichlorobenzene	#N/A	0.975	U	ug/L
2107	1,2-Dichlorobenzene	LW26D	0411059-05	11/10/04	8270	1,2-Dichlorobenzene	#N/A	0.975	U	ug/L
2108	1,3-Dichlorobenzene	LW26D	0411059-05	11/10/04	8270	1,3-Dichlorobenzene	#N/A	0.975	U	ug/L
2109	1,4-Dichlorobenzene	LW26D	0411059-05	11/10/04	8270	1,4-Dichlorobenzene	#N/A	0.975	U	ug/L
2110	2,4-Dichlorophenol	LW26D	0411059-05	11/10/04	8270	2,4-Dichlorophenol	#N/A	2.92	U	ug/L
2111	2,4-Dinitrophenol	LW26D	0411059-05	11/10/04	8270	2,4-Dinitrophenol	#N/A	9.75	U	ug/L
2112	2,4-Dinitrotoluene	LW26D	0411059-05	11/10/04	8270	2,4-Dinitrotoluene	#N/A	4.87	U	ug/L
2113	2,6-Dinitrotoluene	LW26D	0411059-05	11/10/04	8270	2,6-Dinitrotoluene	#N/A	4.87	U	ug/L
2114	2-Chloronaphthalene	LW26D	0411059-05	11/10/04	8270	2-Chloronaphthalene	#N/A	0.975	U	ug/L
2115	2-Chlorophenol	LW26D	0411059-05	11/10/04	8270	2-Chlorophenol	#N/A	0.975	U	ug/L
2116	2-Methylphenol	LW26D	0411059-05	11/10/04	8270	2-Methylphenol	#N/A	1.95	U	ug/L
2117	2-Nitroaniline	LW26D	0411059-05	11/10/04	8270	2-Nitroaniline	#N/A	4.87	U	ug/L

	A	B	C	D	E	F	G	H	I	J
2118	2-Nitrophenol	LW26D	0411059-05	11/10/04	8270	2-Nitrophenol	#N/A	4.87	U	ug/L
2119	3,3'-Dichlorobenzidine	LW26D	0411059-05	11/10/04	8270	3,3'-Dichlorobenzidine	#N/A	4.87	U	ug/L
2120	3-Nitroaniline	LW26D	0411059-05	11/10/04	8270	3-Nitroaniline	#N/A	5.85	U	ug/L
2121	4,6-Dinitro-2-methylphenol	LW26D	0411059-05	11/10/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.75	U	ug/L
2122	4-Bromophenyl phenyl ether	LW26D	0411059-05	11/10/04	8270	4-Bromophenyl phenyl ether	#N/A	0.975	U	ug/L
2123	4-Chloro-3-methylphenol	LW26D	0411059-05	11/10/04	8270	4-Chloro-3-methylphenol	#N/A	1.95	U	ug/L
2124	4-Chloroaniline	LW26D	0411059-05	11/10/04	8270	4-Chloroaniline	#N/A	2.92	U	ug/L
2125	4-Chlorophenyl phenyl ether	LW26D	0411059-05	11/10/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.975	U	ug/L
2126	4-Nitroaniline	LW26D	0411059-05	11/10/04	8270	4-Nitroaniline	#N/A	4.87	U	ug/L
2127	4-Nitrophenol	LW26D	0411059-05	11/10/04	8270	4-Nitrophenol	#N/A	4.87	U	ug/L
2128	Benz(a)anthracene	LW26D	0411059-05	11/10/04	8270	Benz(a)anthracene	#N/A	0.975	U	ug/L
2129	Benzo(a)pyrene	LW26D	0411059-05	11/10/04	8270	Benzo(a)pyrene	#N/A	0.975	U	ug/L
2130	Benzo(b)fluoranthene	LW26D	0411059-05	11/10/04	8270	Benzo(b)fluoranthene	#N/A	0.975	U	ug/L
2131	Benzo(g,h,i)perylene	LW26D	0411059-05	11/10/04	8270	Benzo(g,h,i)perylene	#N/A	0.975	U	ug/L
2132	Benzo(k)fluoranthene	LW26D	0411059-05	11/10/04	8270	Benzo(k)fluoranthene	#N/A	0.975	U	ug/L
2133	Benzyl Alcohol	LW26D	0411059-05	11/10/04	8270	Benzyl Alcohol	#N/A	4.87	U	ug/L
2134	Bis(2-chloroethoxy)methane	LW26D	0411059-05	11/10/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.975	U	ug/L
2135	Bis(2-chloroethyl)ether	LW26D	0411059-05	11/10/04	8270	Bis(2-chloroethyl)ether	#N/A	1.95	U	ug/L
2136	Bis(2-chloroisopropyl)ether	LW26D	0411059-05	11/10/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.975	U	ug/L
2137	Butyl benzyl phthalate	LW26D	0411059-05	11/10/04	8270	Butyl benzyl phthalate	#N/A	0.975	U	ug/L
2138	Carbazole	LW26D	0411059-05	11/10/04	8270	Carbazole	#N/A	0.975	U	ug/L
2139	Chrysene	LW26D	0411059-05	11/10/04	8270	Chrysene	#N/A	0.975	U	ug/L
2140	Dibenz(a,h)anthracene	LW26D	0411059-05	11/10/04	8270	Dibenz(a,h)anthracene	#N/A	0.975	U	ug/L
2141	Diethyl phthalate	LW26D	0411059-05	11/10/04	8270	Diethyl phthalate	#N/A	0.975	U	ug/L
2142	Dimethyl phthalate	LW26D	0411059-05	11/10/04	8270	Dimethyl phthalate	#N/A	0.975	U	ug/L
2143	Di-n-butyl phthalate	LW26D	0411059-05	11/10/04	8270	Di-n-butyl phthalate	#N/A	0.975	U	ug/L
2144	Di-n-octyl phthalate	LW26D	0411059-05	11/10/04	8270	Di-n-octyl phthalate	#N/A	0.975	U	ug/L
2145	Fluoranthene	LW26D	0411059-05	11/10/04	8270	Fluoranthene	#N/A	0.975	U	ug/L
2146	Hexachlorobenzene	LW26D	0411059-05	11/10/04	8270	Hexachlorobenzene	#N/A	0.975	U	ug/L
2147	Hexachlorobutadiene	LW26D	0411059-05	11/10/04	8270	Hexachlorobutadiene	#N/A	1.95	U	ug/L
2148	Hexachlorocyclopentadiene	LW26D	0411059-05	11/10/04	8270	Hexachlorocyclopentadiene	#N/A	4.87	U	ug/L
2149	Hexachloroethane	LW26D	0411059-05	11/10/04	8270	Hexachloroethane	#N/A	1.95	U	ug/L
2150	Indeno(1,2,3-cd)pyrene	LW26D	0411059-05	11/10/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.975	U	ug/L
2151	Nitrobenzene	LW26D	0411059-05	11/10/04	8270	Nitrobenzene	#N/A	0.975	U	ug/L
2152	N-Nitrosodimethylamine	LW26D	0411059-05	11/10/04	8270	N-Nitrosodimethylamine	#N/A	0.975	U	ug/L
2153	N-Nitrosodi-n-propylamine	LW26D	0411059-05	11/10/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.95	U	ug/L
2154	N-Nitrosodiphenylamine	LW26D	0411059-05	11/10/04	8270	N-Nitrosodiphenylamine	#N/A	0.975	U	ug/L
2155	Phenanthrene	LW26D	0411059-05	11/10/04	8270	Phenanthrene	#N/A	0.975	U	ug/L
2156	Pyrene	LW26D	0411059-05	11/10/04	8270	Pyrene	#N/A	0.975	U	ug/L
2157	Pyridine	LW26D	0411059-05	11/10/04	8270	Pyridine	#N/A	4.87	U	ug/L
2158	Benz(a)anthracene	LW26D	0411059-05	11/10/04	8270SIM	Benz(a)anthracene	#N/A	0.0509	U	ug/L
2159	Benzo(a)pyrene	LW26D	0411059-05	11/10/04	8270SIM	Benzo(a)pyrene	#N/A	0.0509	U	ug/L
2160	Benzo(b)fluoranthene	LW26D	0411059-05	11/10/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0509	U	ug/L
2161	Benzo(g,h,i)perylene	LW26D	0411059-05	11/10/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0509	U	ug/L
2162	Benzo(k)fluoranthene	LW26D	0411059-05	11/10/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0509	U	ug/L
2163	Chrysene	LW26D	0411059-05	11/10/04	8270SIM	Chrysene	#N/A	0.0509	U	ug/L
2164	Dibenz(a,h)anthracene	LW26D	0411059-05	11/10/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0509	U	ug/L
2165	Fluoranthene	LW26D	0411059-05	11/10/04	8270SIM	Fluoranthene	#N/A	0.0509	U	ug/L
2166	Indeno(1,2,3-cd)pyrene	LW26D	0411059-05	11/10/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0509	U	ug/L
2167	Phenanthrene	LW26D	0411059-05	11/10/04	8270SIM	Phenanthrene	#N/A	0.0509	U	ug/L
2168	Pyrene	LW26D	0411059-05	11/10/04	8270SIM	Pyrene	#N/A	0.0509	U	ug/L
2169	Turbidity	LW26D	0411059-05	11/10/04	FIELD	Turbidity	#N/A	103		ntu
2170	Pentachlorophenol	LW27D	0411059-06	11/10/04	8270	Pentachlorophenol	3	4.84	U	ug/L
2171	Phenol	LW27D	0411059-06	11/10/04	8270	Phenol	13	1.93	U	ug/L
2172	3-&4-Methylphenol	LW27D	0411059-06	11/10/04	8270	3-&4-Methylphenol	14	9.67	U	ug/L
2173	Isophorone	LW27D	0411059-06	11/10/04	8270	Isophorone	15	0.967	U	ug/L
2174	2,4-Dimethylphenol	LW27D	0411059-06	11/10/04	8270	2,4-Dimethylphenol	16	2.9	U	ug/L
2175	Benzoic Acid	LW27D	0411059-06	11/10/04	8270	Benzoic Acid	17	19.3	U	ug/L
2176	Naphthalene	LW27D	0411059-06	11/10/04	8270	Naphthalene	18	0.967	U	ug/L
2177	2-Methylnaphthalene	LW27D	0411059-06	11/10/04	8270	2-Methylnaphthalene	19	0.967	U	ug/L
2178	2,4,6-Trichlorophenol	LW27D	0411059-06	11/10/04	8270	2,4,6-Trichlorophenol	20	4.84	U	ug/L
2179	2,4,5-Trichlorophenol	LW27D	0411059-06	11/10/04	8270	2,4,5-Trichlorophenol	21	4.84	U	ug/L
2180	Acenaphthene	LW27D	0411059-06	11/10/04	8270	Acenaphthene	22	0.967	U	ug/L
2181	Dibenzofuran	LW27D	0411059-06	11/10/04	8270	Dibenzofuran	23	0.967	U	ug/L
2182	Fluorene	LW27D	0411059-06	11/10/04	8270	Fluorene	24	0.967	U	ug/L
2183	Bis(2-ethylhexyl)phthalate	LW27D	0411059-06	11/10/04	8270	Bis(2-ethylhexyl)phthalate	26	0.967	U	ug/L
2184	Acetone	LW27D	0411059-06	11/10/04	8260	Acetone	30	50	U	ug/L
2185	Carbon disulfide	LW27D	0411059-06	11/10/04	8260	Carbon disulfide	31	2	U	ug/L
2186	2-Butanone	LW27D	0411059-06	11/10/04	8260	2-Butanone	32	10	U	ug/L
2187	Benzene	LW27D	0411059-06	11/10/04	8260	Benzene	33	0.3	U	ug/L
2188	Bromoform	LW27D	0411059-06	11/10/04	8260	Bromoform	34	1	U	ug/L
2189	Toluene	LW27D	0411059-06	11/10/04	8260	Toluene	35	1	U	ug/L
2190	Ethylbenzene	LW27D	0411059-06	11/10/04	8260	Ethylbenzene	36	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
2191	Styrene	LW27D	0411059-06	11/10/04	8260	Styrene	37	1	U	ug/L
2192	m,p-Xylene	LW27D	0411059-06	11/10/04	8260	m,p-Xylene	38	2	U	ug/L
2193	o-Xylene	LW27D	0411059-06	11/10/04	8260	o-Xylene	39	1	U	ug/L
2194	1,3,5-Trimethylbenzene	LW27D	0411059-06	11/10/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
2195	1,2,4-Trimethylbenzene	LW27D	0411059-06	11/10/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
2196	Isopropylbenzene	LW27D	0411059-06	11/10/04	8260	Isopropylbenzene	42	1	U	ug/L
2197	n-Propylbenzene	LW27D	0411059-06	11/10/04	8260	n-Propylbenzene	43	1	U	ug/L
2198	tert-Butylbenzene	LW27D	0411059-06	11/10/04	8260	tert-Butylbenzene	44	1	U	ug/L
2199	sec-Butylbenzene	LW27D	0411059-06	11/10/04	8260	sec-Butylbenzene	45	1	U	ug/L
2200	4-Isopropyltoluene	LW27D	0411059-06	11/10/04	8260	4-Isopropyltoluene	46	1	U	ug/L
2201	n-Butylbenzene	LW27D	0411059-06	11/10/04	8260	n-Butylbenzene	47	1	U	ug/L
2202	Naphthalene	LW27D	0411059-06	11/10/04	8260	Naphthalene	48	1	U	ug/L
2203	Methyl tert-butyl ether	LW27D	0411059-06	11/10/04	8260	Methyl tert-butyl ether	49	**3.02**		ug/L
2204	Diesel Range Hydrocarbons	LW27D	0411059-06	11/10/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.969**		mg/L
2205	Lube Oil	LW27D	0411059-06	11/10/04	NWTPH-Dx	Lube Oil	54	**0.647**		mg/L
2206	Gasoline Range Hydrocarbons	LW27D	0411059-06	11/10/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**0.188**		ug/L
2207	Arsenic	LW27D	0411059-06	11/10/04	6020	Arsenic	59	**0.00534**		ug/L
2208	Chromium	LW27D	0411059-06	11/10/04	6010	Chromium	60	**0.0177**		mg/L
2209	Copper	LW27D	0411059-06	11/10/04	6010	Copper	61	0.01	U	mg/L
2210	Lead	LW27D	0411059-06	11/10/04	6020	Lead	62	**0.00136**		ug/L
2211	Nickel	LW27D	0411059-06	11/10/04	6010	Nickel	63	0.005	U	mg/L
2212	Zinc	LW27D	0411059-06	11/10/04	6010	Zinc	64	**0.0173**		mg/L
2213	Total Dissolved Solids	LW27D	0411059-06	11/10/04	1601	Total Dissolved Solids	74	**284**	J	mg/L
2214	Chloride	LW27D	0411059-06	11/10/04	9056	Chloride	75	**2.85**		mg/L
2215	pH	LW27D	0411059-06	11/10/04	FIELD	pH	82	7.06		s.u.
2216	Temperature	LW27D	0411059-06	11/10/04	FIELD	Temperature	83	14.2		c
2217	Conductivity	LW27D	0411059-06	11/10/04	FIELD	Conductivity	84	372		us
2218	Dissolved oxygen	LW27D	0411059-06	11/10/04	FIELD	Dissolved oxygen	85	1.57		mg/l
2219	Naphthalene	LW27D	0411059-06	11/10/04	8270SIM	Naphthalene	119	**0.128**		ug/L
2220	Acenaphthylene	LW27D	0411059-06	11/10/04	8270SIM	Acenaphthylene	121	0.0492	U	ug/L
2221	Acenaphthene	LW27D	0411059-06	11/10/04	8270SIM	Acenaphthene	122	**0.0689**		ug/L
2222	Fluorene	LW27D	0411059-06	11/10/04	8270SIM	Fluorene	123	0.0492	U	ug/L
2223	Anthracene	LW27D	0411059-06	11/10/04	8270SIM	Anthracene	124	0.0492	U	ug/L
2224	1,1,1,2-Tetrachloroethane	LW27D	0411059-06	11/10/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
2225	1,1,1-Trichloroethane	LW27D	0411059-06	11/10/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
2226	1,1,2,2-Tetrachloroethane	LW27D	0411059-06	11/10/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
2227	1,1,2-Trichloroethane	LW27D	0411059-06	11/10/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
2228	1,1-Dichloroethane	LW27D	0411059-06	11/10/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
2229	1,1-Dichloroethene	LW27D	0411059-06	11/10/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
2230	1,1-Dichloropropene	LW27D	0411059-06	11/10/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
2231	1,2,3-Trichlorobenzene	LW27D	0411059-06	11/10/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
2232	1,2,3-Trichloropropane	LW27D	0411059-06	11/10/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
2233	1,2,4-Trichlorobenzene	LW27D	0411059-06	11/10/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
2234	1,2-Dibromo-3-chloropropane	LW27D	0411059-06	11/10/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
2235	1,2-Dibromoethane	LW27D	0411059-06	11/10/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
2236	1,2-Dichlorobenzene	LW27D	0411059-06	11/10/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
2237	1,2-Dichloroethane	LW27D	0411059-06	11/10/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
2238	1,2-Dichloropropane	LW27D	0411059-06	11/10/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
2239	1,3-Dichlorobenzene	LW27D	0411059-06	11/10/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
2240	1,3-Dichloropropane	LW27D	0411059-06	11/10/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
2241	1,4-Dichlorobenzene	LW27D	0411059-06	11/10/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
2242	2,2-Dichloropropane	LW27D	0411059-06	11/10/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
2243	2-Chlorotoluene	LW27D	0411059-06	11/10/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
2244	2-Hexanone	LW27D	0411059-06	11/10/04	8260	2-Hexanone	#N/A	10	U	ug/L
2245	4-Chlorotoluene	LW27D	0411059-06	11/10/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
2246	4-Methyl-2-pentanone	LW27D	0411059-06	11/10/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
2247	Acrylonitrile	LW27D	0411059-06	11/10/04	8260	Acrylonitrile	#N/A	5	U	ug/L
2248	Bromobenzene	LW27D	0411059-06	11/10/04	8260	Bromobenzene	#N/A	1	U	ug/L
2249	Bromochloromethane	LW27D	0411059-06	11/10/04	8260	Bromochloromethane	#N/A	1	U	ug/L
2250	Bromodichloromethane	LW27D	0411059-06	11/10/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
2251	Bromomethane	LW27D	0411059-06	11/10/04	8260	Bromomethane	#N/A	1	U	ug/L
2252	Carbon tetrachloride	LW27D	0411059-06	11/10/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
2253	Chlorobenzene	LW27D	0411059-06	11/10/04	8260	Chlorobenzene	#N/A	1	U	ug/L
2254	Chloroethane	LW27D	0411059-06	11/10/04	8260	Chloroethane	#N/A	1	U	ug/L
2255	Chloroform	LW27D	0411059-06	11/10/04	8260	Chloroform	#N/A	1	U	ug/L
2256	Chloromethane	LW27D	0411059-06	11/10/04	8260	Chloromethane	#N/A	1	U	ug/L
2257	cis-1,2-Dichloroethene	LW27D	0411059-06	11/10/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
2258	cis-1,3-Dichloropropene	LW27D	0411059-06	11/10/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
2259	Dibromochloromethane	LW27D	0411059-06	11/10/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
2260	Dibromomethane	LW27D	0411059-06	11/10/04	8260	Dibromomethane	#N/A	1	U	ug/L
2261	Dichlorodifluoromethane	LW27D	0411059-06	11/10/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
2262	Hexachlorobutadiene	LW27D	0411059-06	11/10/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
2263	Methylene chloride	LW27D	0411059-06	11/10/04	8260	Methylene chloride	#N/A	20	U	ug/L

	A	B	C	D	E	F	G	H	I	J
2264	Tetrachloroethene	LW27D	0411059-06	11/10/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
2265	trans-1,2-Dichloroethene	LW27D	0411059-06	11/10/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
2266	trans-1,3-Dichloropropene	LW27D	0411059-06	11/10/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
2267	Trichloroethene	LW27D	0411059-06	11/10/04	8260	Trichloroethene	#N/A	1	U	ug/L
2268	Trichlorofluoromethane	LW27D	0411059-06	11/10/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
2269	Vinyl chloride	LW27D	0411059-06	11/10/04	8260	Vinyl chloride	#N/A	1	U	ug/L
2270	1,2,4-Trichlorobenzene	LW27D	0411059-06	11/10/04	8270	1,2,4-Trichlorobenzene	#N/A	0.967	U	ug/L
2271	1,2-Dichlorobenzene	LW27D	0411059-06	11/10/04	8270	1,2-Dichlorobenzene	#N/A	0.967	U	ug/L
2272	1,3-Dichlorobenzene	LW27D	0411059-06	11/10/04	8270	1,3-Dichlorobenzene	#N/A	0.967	U	ug/L
2273	1,4-Dichlorobenzene	LW27D	0411059-06	11/10/04	8270	1,4-Dichlorobenzene	#N/A	0.967	U	ug/L
2274	2,4-Dichlorophenol	LW27D	0411059-06	11/10/04	8270	2,4-Dichlorophenol	#N/A	2.9	U	ug/L
2275	2,4-Dinitrophenol	LW27D	0411059-06	11/10/04	8270	2,4-Dinitrophenol	#N/A	9.67	U	ug/L
2276	2,4-Dinitrotoluene	LW27D	0411059-06	11/10/04	8270	2,4-Dinitrotoluene	#N/A	4.84	U	ug/L
2277	2,6-Dinitrotoluene	LW27D	0411059-06	11/10/04	8270	2,6-Dinitrotoluene	#N/A	4.84	U	ug/L
2278	2-Chloronaphthalene	LW27D	0411059-06	11/10/04	8270	2-Chloronaphthalene	#N/A	0.967	U	ug/L
2279	2-Chlorophenol	LW27D	0411059-06	11/10/04	8270	2-Chlorophenol	#N/A	0.967	U	ug/L
2280	2-Methylphenol	LW27D	0411059-06	11/10/04	8270	2-Methylphenol	#N/A	1.93	U	ug/L
2281	2-Nitroaniline	LW27D	0411059-06	11/10/04	8270	2-Nitroaniline	#N/A	4.84	U	ug/L
2282	2-Nitrophenol	LW27D	0411059-06	11/10/04	8270	2-Nitrophenol	#N/A	4.84	U	ug/L
2283	3,3'-Dichlorobenzidine	LW27D	0411059-06	11/10/04	8270	3,3'-Dichlorobenzidine	#N/A	4.84	U	ug/L
2284	3-Nitroaniline	LW27D	0411059-06	11/10/04	8270	3-Nitroaniline	#N/A	5.8	U	ug/L
2285	4,6-Dinitro-2-methylphenol	LW27D	0411059-06	11/10/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.67	U	ug/L
2286	4-Bromophenyl phenyl ether	LW27D	0411059-06	11/10/04	8270	4-Bromophenyl phenyl ether	#N/A	0.967	U	ug/L
2287	4-Chloro-3-methylphenol	LW27D	0411059-06	11/10/04	8270	4-Chloro-3-methylphenol	#N/A	1.93	U	ug/L
2288	4-Chloroaniline	LW27D	0411059-06	11/10/04	8270	4-Chloroaniline	#N/A	2.9	U	ug/L
2289	4-Chlorophenyl phenyl ether	LW27D	0411059-06	11/10/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.967	U	ug/L
2290	4-Nitroaniline	LW27D	0411059-06	11/10/04	8270	4-Nitroaniline	#N/A	4.84	U	ug/L
2291	4-Nitrophenol	LW27D	0411059-06	11/10/04	8270	4-Nitrophenol	#N/A	4.84	U	ug/L
2292	Benz(a)anthracene	LW27D	0411059-06	11/10/04	8270	Benz(a)anthracene	#N/A	0.967	U	ug/L
2293	Benzo(a)pyrene	LW27D	0411059-06	11/10/04	8270	Benzo(a)pyrene	#N/A	0.967	U	ug/L
2294	Benzo(b)fluoranthene	LW27D	0411059-06	11/10/04	8270	Benzo(b)fluoranthene	#N/A	0.967	U	ug/L
2295	Benzo(g,h,i)perylene	LW27D	0411059-06	11/10/04	8270	Benzo(g,h,i)perylene	#N/A	0.967	U	ug/L
2296	Benzo(k)fluoranthene	LW27D	0411059-06	11/10/04	8270	Benzo(k)fluoranthene	#N/A	0.967	U	ug/L
2297	Benzyl Alcohol	LW27D	0411059-06	11/10/04	8270	Benzyl Alcohol	#N/A	4.84	U	ug/L
2298	Bis(2-chloroethoxy)methane	LW27D	0411059-06	11/10/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.967	U	ug/L
2299	Bis(2-chloroethyl)ether	LW27D	0411059-06	11/10/04	8270	Bis(2-chloroethyl)ether	#N/A	1.93	U	ug/L
2300	Bis(2-chloroisopropyl)ether	LW27D	0411059-06	11/10/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.967	U	ug/L
2301	Butyl benzyl phthalate	LW27D	0411059-06	11/10/04	8270	Butyl benzyl phthalate	#N/A	0.967	U	ug/L
2302	Carbazole	LW27D	0411059-06	11/10/04	8270	Carbazole	#N/A	0.967	U	ug/L
2303	Chrysene	LW27D	0411059-06	11/10/04	8270	Chrysene	#N/A	0.967	U	ug/L
2304	Dibenz(a,h)anthracene	LW27D	0411059-06	11/10/04	8270	Dibenz(a,h)anthracene	#N/A	0.967	U	ug/L
2305	Diethyl phthalate	LW27D	0411059-06	11/10/04	8270	Diethyl phthalate	#N/A	0.967	U	ug/L
2306	Dimethyl phthalate	LW27D	0411059-06	11/10/04	8270	Dimethyl phthalate	#N/A	0.967	U	ug/L
2307	Di-n-butyl phthalate	LW27D	0411059-06	11/10/04	8270	Di-n-butyl phthalate	#N/A	0.967	U	ug/L
2308	Di-n-octyl phthalate	LW27D	0411059-06	11/10/04	8270	Di-n-octyl phthalate	#N/A	0.967	U	ug/L
2309	Fluoranthene	LW27D	0411059-06	11/10/04	8270	Fluoranthene	#N/A	0.967	U	ug/L
2310	Hexachlorobenzene	LW27D	0411059-06	11/10/04	8270	Hexachlorobenzene	#N/A	0.967	U	ug/L
2311	Hexachlorobutadiene	LW27D	0411059-06	11/10/04	8270	Hexachlorobutadiene	#N/A	1.93	U	ug/L
2312	Hexachlorocyclopentadiene	LW27D	0411059-06	11/10/04	8270	Hexachlorocyclopentadiene	#N/A	4.84	U	ug/L
2313	Hexachloroethane	LW27D	0411059-06	11/10/04	8270	Hexachloroethane	#N/A	1.93	U	ug/L
2314	Indeno(1,2,3-cd)pyrene	LW27D	0411059-06	11/10/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.967	U	ug/L
2315	Nitrobenzene	LW27D	0411059-06	11/10/04	8270	Nitrobenzene	#N/A	0.967	U	ug/L
2316	N-Nitrosodimethylamine	LW27D	0411059-06	11/10/04	8270	N-Nitrosodimethylamine	#N/A	0.967	U	ug/L
2317	N-Nitrosodi-n-propylamine	LW27D	0411059-06	11/10/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.93	U	ug/L
2318	N-Nitrosodiphenylamine	LW27D	0411059-06	11/10/04	8270	N-Nitrosodiphenylamine	#N/A	0.967	U	ug/L
2319	Phenanthrene	LW27D	0411059-06	11/10/04	8270	Phenanthrene	#N/A	0.967	U	ug/L
2320	Pyrene	LW27D	0411059-06	11/10/04	8270	Pyrene	#N/A	0.967	U	ug/L
2321	Pyridine	LW27D	0411059-06	11/10/04	8270	Pyridine	#N/A	4.84	U	ug/L
2322	Benz(a)anthracene	LW27D	0411059-06	11/10/04	8270SIM	Benz(a)anthracene	#N/A	0.0492	U	ug/L
2323	Benzo(a)pyrene	LW27D	0411059-06	11/10/04	8270SIM	Benzo(a)pyrene	#N/A	0.0492	U	ug/L
2324	Benzo(b)fluoranthene	LW27D	0411059-06	11/10/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0492	U	ug/L
2325	Benzo(g,h,i)perylene	LW27D	0411059-06	11/10/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0492	U	ug/L
2326	Benzo(k)fluoranthene	LW27D	0411059-06	11/10/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0492	U	ug/L
2327	Chrysene	LW27D	0411059-06	11/10/04	8270SIM	Chrysene	#N/A	0.0492	U	ug/L
2328	Dibenz(a,h)anthracene	LW27D	0411059-06	11/10/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0492	U	ug/L
2329	Fluoranthene	LW27D	0411059-06	11/10/04	8270SIM	Fluoranthene	#N/A	0.0492	U	ug/L
2330	Indeno(1,2,3-cd)pyrene	LW27D	0411059-06	11/10/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0492	U	ug/L
2331	Phenanthrene	LW27D	0411059-06	11/10/04	8270SIM	Phenanthrene	#N/A	0.0492	U	ug/L
2332	Pyrene	LW27D	0411059-06	11/10/04	8270SIM	Pyrene	#N/A	0.0492	U	ug/L
2333	Turbidity	LW27D	0411059-06	11/10/04	FIELD	Turbidity	#N/A	33		ntu
2334	Pentachlorophenol	LW29D	0411047-03	11/8/04	8270	Pentachlorophenol	3	5.05	U	ug/L
2335	Phenol	LW29D	0411047-03	11/8/04	8270	Phenol	13	2.02	U	ug/L
2336	3-&4-Methylphenol	LW29D	0411047-03	11/8/04	8270	3-&4-Methylphenol	14	10.1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
2337	Isophorone	LW29D	0411047-03	11/8/04	8270	Isophorone	15	1.01	U	ug/L
2338	2,4-Dimethylphenol	LW29D	0411047-03	11/8/04	8270	2,4-Dimethylphenol	16	3.03	U	ug/L
2339	Benzoic Acid	LW29D	0411047-03	11/8/04	8270	Benzoic Acid	17	20.2	U	ug/L
2340	Naphthalene	LW29D	0411047-03	11/8/04	8270	Naphthalene	18	1.01	U	ug/L
2341	2-Methylnaphthalene	LW29D	0411047-03	11/8/04	8270	2-Methylnaphthalene	19	1.01	U	ug/L
2342	2,4,6-Trichlorophenol	LW29D	0411047-03	11/8/04	8270	2,4,6-Trichlorophenol	20	5.05	U	ug/L
2343	2,4,5-Trichlorophenol	LW29D	0411047-03	11/8/04	8270	2,4,5-Trichlorophenol	21	5.05	U	ug/L
2344	Acenaphthene	LW29D	0411047-03	11/8/04	8270	Acenaphthene	22	1.01	U	ug/L
2345	Dibenzofuran	LW29D	0411047-03	11/8/04	8270	Dibenzofuran	23	1.01	U	ug/L
2346	Fluorene	LW29D	0411047-03	11/8/04	8270	Fluorene	24	1.01	U	ug/L
2347	Bis(2-ethylhexyl)phthalate	LW29D	0411047-03	11/8/04	8270	Bis(2-ethylhexyl)phthalate	26	**1.33**		ug/L
2348	Acetone	LW29D	0411047-03	11/8/04	8260	Acetone	30	50	U	ug/L
2349	Carbon disulfide	LW29D	0411047-03	11/8/04	8260	Carbon disulfide	31	2	U	ug/L
2350	2-Butanone	LW29D	0411047-03	11/8/04	8260	2-Butanone	32	10	U	ug/L
2351	Benzene	LW29D	0411047-03	11/8/04	8260	Benzene	33	0.3	U	ug/L
2352	Bromoform	LW29D	0411047-03	11/8/04	8260	Bromoform	34	1	U	ug/L
2353	Toluene	LW29D	0411047-03	11/8/04	8260	Toluene	35	1	U	ug/L
2354	Ethylbenzene	LW29D	0411047-03	11/8/04	8260	Ethylbenzene	36	1	U	ug/L
2355	Styrene	LW29D	0411047-03	11/8/04	8260	Styrene	37	1	U	ug/L
2356	m,p-Xylene	LW29D	0411047-03	11/8/04	8260	m,p-Xylene	38	2	U	ug/L
2357	o-Xylene	LW29D	0411047-03	11/8/04	8260	o-Xylene	39	1	U	ug/L
2358	1,3,5-Trimethylbenzene	LW29D	0411047-03	11/8/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
2359	1,2,4-Trimethylbenzene	LW29D	0411047-03	11/8/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
2360	Isopropylbenzene	LW29D	0411047-03	11/8/04	8260	Isopropylbenzene	42	1	U	ug/L
2361	n-Propylbenzene	LW29D	0411047-03	11/8/04	8260	n-Propylbenzene	43	1	U	ug/L
2362	tert-Butylbenzene	LW29D	0411047-03	11/8/04	8260	tert-Butylbenzene	44	1	U	ug/L
2363	sec-Butylbenzene	LW29D	0411047-03	11/8/04	8260	sec-Butylbenzene	45	1	U	ug/L
2364	4-Isopropyltoluene	LW29D	0411047-03	11/8/04	8260	4-Isopropyltoluene	46	1	U	ug/L
2365	n-Butylbenzene	LW29D	0411047-03	11/8/04	8260	n-Butylbenzene	47	1	U	ug/L
2366	Naphthalene	LW29D	0411047-03	11/8/04	8260	Naphthalene	48	1	U	ug/L
2367	Methyl tert-butyl ether	LW29D	0411047-03	11/8/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
2368	Diesel Range Hydrocarbons	LW29D	0411047-03	11/8/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	0.252	U	mg/L
2369	Lube Oil	LW29D	0411047-03	11/8/04	NWTPH-Dx	Lube Oil	54	0.503	U	mg/L
2370	Gasoline Range Hydrocarbons	LW29D	0411047-03	11/8/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	0.1	U	ug/L
2371	Arsenic	LW29D	0411047-03	11/8/04	6020	Arsenic	59	**0.00658**		ug/L
2372	Chromium	LW29D	0411047-03	11/8/04	6010	Chromium	60	**0.024**		mg/L
2373	Copper	LW29D	0411047-03	11/8/04	6010	Copper	61	**0.0115**		mg/L
2374	Lead	LW29D	0411047-03	11/8/04	6020	Lead	62	**0.00274**		ug/L
2375	Nickel	LW29D	0411047-03	11/8/04	6010	Nickel	63	0.005	U	mg/L
2376	Zinc	LW29D	0411047-03	11/8/04	6010	Zinc	64	**0.0216**		mg/L
2377	Total Dissolved Solids	LW29D	0411047-03	11/8/04	1601	Total Dissolved Solids	74	**462**		mg/L
2378	Chloride	LW29D	0411047-03	11/8/04	9056	Chloride	75	**4.18**		mg/L
2379	pH	LW29D	0411047-03	11/8/04	FIELD	pH	82	6.89		s.u.
2380	Temperature	LW29D	0411047-03	11/8/04	FIELD	Temperature	83	14.3		c
2381	Conductivity	LW29D	0411047-03	11/8/04	FIELD	Conductivity	84	511		us
2382	Dissolved oxygen	LW29D	0411047-03	11/8/04	FIELD	Dissolved oxygen	85	0.94		mg/l
2383	Naphthalene	LW29D	0411047-03	11/8/04	8270SIM	Naphthalene	119	0.0495	U	ug/L
2384	Acenaphthylene	LW29D	0411047-03	11/8/04	8270SIM	Acenaphthylene	121	0.0495	U	ug/L
2385	Acenaphthene	LW29D	0411047-03	11/8/04	8270SIM	Acenaphthene	122	0.0495	U	ug/L
2386	Fluorene	LW29D	0411047-03	11/8/04	8270SIM	Fluorene	123	0.0495	U	ug/L
2387	Anthracene	LW29D	0411047-03	11/8/04	8270SIM	Anthracene	124	0.0495	U	ug/L
2388	1,1,1,2-Tetrachloroethane	LW29D	0411047-03	11/8/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
2389	1,1,1-Trichloroethane	LW29D	0411047-03	11/8/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
2390	1,1,2,2-Tetrachloroethane	LW29D	0411047-03	11/8/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
2391	1,1,2-Trichloroethane	LW29D	0411047-03	11/8/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
2392	1,1-Dichloroethane	LW29D	0411047-03	11/8/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
2393	1,1-Dichloroethene	LW29D	0411047-03	11/8/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
2394	1,1-Dichloropropene	LW29D	0411047-03	11/8/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
2395	1,2,3-Trichlorobenzene	LW29D	0411047-03	11/8/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
2396	1,2,3-Trichloropropane	LW29D	0411047-03	11/8/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
2397	1,2,4-Trichlorobenzene	LW29D	0411047-03	11/8/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
2398	1,2-Dibromo-3-chloropropane	LW29D	0411047-03	11/8/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
2399	1,2-Dibromoethane	LW29D	0411047-03	11/8/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
2400	1,2-Dichlorobenzene	LW29D	0411047-03	11/8/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
2401	1,2-Dichloroethane	LW29D	0411047-03	11/8/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
2402	1,2-Dichloropropane	LW29D	0411047-03	11/8/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
2403	1,3-Dichlorobenzene	LW29D	0411047-03	11/8/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
2404	1,3-Dichloropropane	LW29D	0411047-03	11/8/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
2405	1,4-Dichlorobenzene	LW29D	0411047-03	11/8/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
2406	2,2-Dichloropropane	LW29D	0411047-03	11/8/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
2407	2-Chlorotoluene	LW29D	0411047-03	11/8/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
2408	2-Hexanone	LW29D	0411047-03	11/8/04	8260	2-Hexanone	#N/A	10	U	ug/L
2409	4-Chlorotoluene	LW29D	0411047-03	11/8/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
2410	4-Methyl-2-pentanone	LW29D	0411047-03	11/8/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
2411	Acrylonitrile	LW29D	0411047-03	11/8/04	8260	Acrylonitrile	#N/A	5	U	ug/L
2412	Bromobenzene	LW29D	0411047-03	11/8/04	8260	Bromobenzene	#N/A	1	U	ug/L
2413	Bromochloromethane	LW29D	0411047-03	11/8/04	8260	Bromochloromethane	#N/A	1	U	ug/L
2414	Bromodichloromethane	LW29D	0411047-03	11/8/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
2415	Bromomethane	LW29D	0411047-03	11/8/04	8260	Bromomethane	#N/A	1	U	ug/L
2416	Carbon tetrachloride	LW29D	0411047-03	11/8/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
2417	Chlorobenzene	LW29D	0411047-03	11/8/04	8260	Chlorobenzene	#N/A	1	U	ug/L
2418	Chloroethane	LW29D	0411047-03	11/8/04	8260	Chloroethane	#N/A	1	U	ug/L
2419	Chloroform	LW29D	0411047-03	11/8/04	8260	Chloroform	#N/A	1	U	ug/L
2420	Chloromethane	LW29D	0411047-03	11/8/04	8260	Chloromethane	#N/A	1	U	ug/L
2421	cis-1,2-Dichloroethene	LW29D	0411047-03	11/8/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
2422	cis-1,3-Dichloropropene	LW29D	0411047-03	11/8/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
2423	Dibromochloromethane	LW29D	0411047-03	11/8/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
2424	Dibromomethane	LW29D	0411047-03	11/8/04	8260	Dibromomethane	#N/A	1	U	ug/L
2425	Dichlorodifluoromethane	LW29D	0411047-03	11/8/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
2426	Hexachlorobutadiene	LW29D	0411047-03	11/8/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
2427	Methylene chloride	LW29D	0411047-03	11/8/04	8260	Methylene chloride	#N/A	20	U	ug/L
2428	Tetrachloroethene	LW29D	0411047-03	11/8/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
2429	trans-1,2-Dichloroethene	LW29D	0411047-03	11/8/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
2430	trans-1,3-Dichloropropene	LW29D	0411047-03	11/8/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
2431	Trichloroethene	LW29D	0411047-03	11/8/04	8260	Trichloroethene	#N/A	1	U	ug/L
2432	Trichlorofluoromethane	LW29D	0411047-03	11/8/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
2433	Vinyl chloride	LW29D	0411047-03	11/8/04	8260	Vinyl chloride	#N/A	1	U	ug/L
2434	1,2,4-Trichlorobenzene	LW29D	0411047-03	11/8/04	8270	1,2,4-Trichlorobenzene	#N/A	1.01	U	ug/L
2435	1,2-Dichlorobenzene	LW29D	0411047-03	11/8/04	8270	1,2-Dichlorobenzene	#N/A	1.01	U	ug/L
2436	1,3-Dichlorobenzene	LW29D	0411047-03	11/8/04	8270	1,3-Dichlorobenzene	#N/A	1.01	U	ug/L
2437	1,4-Dichlorobenzene	LW29D	0411047-03	11/8/04	8270	1,4-Dichlorobenzene	#N/A	1.01	U	ug/L
2438	2,4-Dichlorophenol	LW29D	0411047-03	11/8/04	8270	2,4-Dichlorophenol	#N/A	3.03	U	ug/L
2439	2,4-Dinitrophenol	LW29D	0411047-03	11/8/04	8270	2,4-Dinitrophenol	#N/A	10.1	U	ug/L
2440	2,4-Dinitrotoluene	LW29D	0411047-03	11/8/04	8270	2,4-Dinitrotoluene	#N/A	5.05	U	ug/L
2441	2,6-Dinitrotoluene	LW29D	0411047-03	11/8/04	8270	2,6-Dinitrotoluene	#N/A	5.05	U	ug/L
2442	2-Chloronaphthalene	LW29D	0411047-03	11/8/04	8270	2-Chloronaphthalene	#N/A	1.01	U	ug/L
2443	2-Chlorophenol	LW29D	0411047-03	11/8/04	8270	2-Chlorophenol	#N/A	1.01	U	ug/L
2444	2-Methylphenol	LW29D	0411047-03	11/8/04	8270	2-Methylphenol	#N/A	2.02	U	ug/L
2445	2-Nitroaniline	LW29D	0411047-03	11/8/04	8270	2-Nitroaniline	#N/A	5.05	U	ug/L
2446	2-Nitrophenol	LW29D	0411047-03	11/8/04	8270	2-Nitrophenol	#N/A	5.05	U	ug/L
2447	3,3'-Dichlorobenzidine	LW29D	0411047-03	11/8/04	8270	3,3'-Dichlorobenzidine	#N/A	5.05	U	ug/L
2448	3-Nitroaniline	LW29D	0411047-03	11/8/04	8270	3-Nitroaniline	#N/A	6.06	U	ug/L
2449	4,6-Dinitro-2-methylphenol	LW29D	0411047-03	11/8/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.1	U	ug/L
2450	4-Bromophenyl phenyl ether	LW29D	0411047-03	11/8/04	8270	4-Bromophenyl phenyl ether	#N/A	1.01	U	ug/L
2451	4-Chloro-3-methylphenol	LW29D	0411047-03	11/8/04	8270	4-Chloro-3-methylphenol	#N/A	2.02	U	ug/L
2452	4-Chloroaniline	LW29D	0411047-03	11/8/04	8270	4-Chloroaniline	#N/A	3.03	U	ug/L
2453	4-Chlorophenyl phenyl ether	LW29D	0411047-03	11/8/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.01	U	ug/L
2454	4-Nitroaniline	LW29D	0411047-03	11/8/04	8270	4-Nitroaniline	#N/A	5.05	U	ug/L
2455	4-Nitrophenol	LW29D	0411047-03	11/8/04	8270	4-Nitrophenol	#N/A	5.05	U	ug/L
2456	Benz(a)anthracene	LW29D	0411047-03	11/8/04	8270	Benz(a)anthracene	#N/A	1.01	U	ug/L
2457	Benzo(a)pyrene	LW29D	0411047-03	11/8/04	8270	Benzo(a)pyrene	#N/A	1.01	U	ug/L
2458	Benzo(b)fluoranthene	LW29D	0411047-03	11/8/04	8270	Benzo(b)fluoranthene	#N/A	1.01	U	ug/L
2459	Benzo(g,h,i)perylene	LW29D	0411047-03	11/8/04	8270	Benzo(g,h,i)perylene	#N/A	1.01	U	ug/L
2460	Benzo(k)fluoranthene	LW29D	0411047-03	11/8/04	8270	Benzo(k)fluoranthene	#N/A	1.01	U	ug/L
2461	Benzyl Alcohol	LW29D	0411047-03	11/8/04	8270	Benzyl Alcohol	#N/A	5.05	U	ug/L
2462	Bis(2-chloroethoxy)methane	LW29D	0411047-03	11/8/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.01	U	ug/L
2463	Bis(2-chloroethyl)ether	LW29D	0411047-03	11/8/04	8270	Bis(2-chloroethyl)ether	#N/A	2.02	U	ug/L
2464	Bis(2-chloroisopropyl)ether	LW29D	0411047-03	11/8/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.01	U	ug/L
2465	Butyl benzyl phthalate	LW29D	0411047-03	11/8/04	8270	Butyl benzyl phthalate	#N/A	1.01	U	ug/L
2466	Carbazole	LW29D	0411047-03	11/8/04	8270	Carbazole	#N/A	1.01	U	ug/L
2467	Chrysene	LW29D	0411047-03	11/8/04	8270	Chrysene	#N/A	1.01	U	ug/L
2468	Dibenz(a,h)anthracene	LW29D	0411047-03	11/8/04	8270	Dibenz(a,h)anthracene	#N/A	1.01	U	ug/L
2469	Diethyl phthalate	LW29D	0411047-03	11/8/04	8270	Diethyl phthalate	#N/A	1.01	U	ug/L
2470	Dimethyl phthalate	LW29D	0411047-03	11/8/04	8270	Dimethyl phthalate	#N/A	1.01	U	ug/L
2471	Di-n-butyl phthalate	LW29D	0411047-03	11/8/04	8270	Di-n-butyl phthalate	#N/A	1.01	U	ug/L
2472	Di-n-octyl phthalate	LW29D	0411047-03	11/8/04	8270	Di-n-octyl phthalate	#N/A	1.01	U	ug/L
2473	Fluoranthene	LW29D	0411047-03	11/8/04	8270	Fluoranthene	#N/A	1.01	U	ug/L
2474	Hexachlorobenzene	LW29D	0411047-03	11/8/04	8270	Hexachlorobenzene	#N/A	1.01	U	ug/L
2475	Hexachlorobutadiene	LW29D	0411047-03	11/8/04	8270	Hexachlorobutadiene	#N/A	2.02	U	ug/L
2476	Hexachlorocyclopentadiene	LW29D	0411047-03	11/8/04	8270	Hexachlorocyclopentadiene	#N/A	5.05	U	ug/L
2477	Hexachloroethane	LW29D	0411047-03	11/8/04	8270	Hexachloroethane	#N/A	2.02	U	ug/L
2478	Indeno(1,2,3-cd)pyrene	LW29D	0411047-03	11/8/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.01	U	ug/L
2479	Nitrobenzene	LW29D	0411047-03	11/8/04	8270	Nitrobenzene	#N/A	1.01	U	ug/L
2480	N-Nitrosodimethylamine	LW29D	0411047-03	11/8/04	8270	N-Nitrosodimethylamine	#N/A	1.01	U	ug/L
2481	N-Nitrosodi-n-propylamine	LW29D	0411047-03	11/8/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.02	U	ug/L
2482	N-Nitrosodiphenylamine	LW29D	0411047-03	11/8/04	8270	N-Nitrosodiphenylamine	#N/A	1.01	U	ug/L

	A	B	C	D	E	F	G	H	I	J
2483	Phenanthrene	LW29D	0411047-03	11/8/04	8270	Phenanthrene	#N/A	1.01	U	ug/L
2484	Pyrene	LW29D	0411047-03	11/8/04	8270	Pyrene	#N/A	1.01	U	ug/L
2485	Pyridine	LW29D	0411047-03	11/8/04	8270	Pyridine	#N/A	5.05	U	ug/L
2486	Benz(a)anthracene	LW29D	0411047-03	11/8/04	8270SIM	Benz(a)anthracene	#N/A	0.0495	U	ug/L
2487	Benzo(a)pyrene	LW29D	0411047-03	11/8/04	8270SIM	Benzo(a)pyrene	#N/A	0.0495	U	ug/L
2488	Benzo(b)fluoranthene	LW29D	0411047-03	11/8/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0495	U	ug/L
2489	Benzo(g,h,i)perylene	LW29D	0411047-03	11/8/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0495	U	ug/L
2490	Benzo(k)fluoranthene	LW29D	0411047-03	11/8/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0495	U	ug/L
2491	Chrysene	LW29D	0411047-03	11/8/04	8270SIM	Chrysene	#N/A	0.0495	U	ug/L
2492	Dibenz(a,h)anthracene	LW29D	0411047-03	11/8/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0495	U	ug/L
2493	Fluoranthene	LW29D	0411047-03	11/8/04	8270SIM	Fluoranthene	#N/A	0.0495	U	ug/L
2494	Indeno(1,2,3-cd)pyrene	LW29D	0411047-03	11/8/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0495	U	ug/L
2495	Phenanthrene	LW29D	0411047-03	11/8/04	8270SIM	Phenanthrene	#N/A	0.0495	U	ug/L
2496	Pyrene	LW29D	0411047-03	11/8/04	8270SIM	Pyrene	#N/A	0.0495	U	ug/L
2497	Turbidity	LW29D	0411047-03	11/8/04	FIELD	Turbidity	#N/A	0		ntu
2498	Pentachlorophenol	LW29S	0411047-02	11/8/04	8270	Pentachlorophenol	3	5.18	U	ug/L
2499	Phenol	LW29S	0411047-02	11/8/04	8270	Phenol	13	2.07	U	ug/L
2500	3-&4-Methylphenol	LW29S	0411047-02	11/8/04	8270	3-&4-Methylphenol	14	10.4	U	ug/L
2501	Isophorone	LW29S	0411047-02	11/8/04	8270	Isophorone	15	1.04	U	ug/L
2502	2,4-Dimethylphenol	LW29S	0411047-02	11/8/04	8270	2,4-Dimethylphenol	16	3.11	U	ug/L
2503	Benzoic Acid	LW29S	0411047-02	11/8/04	8270	Benzoic Acid	17	20.7	U	ug/L
2504	Naphthalene	LW29S	0411047-02	11/8/04	8270	Naphthalene	18	1.04	U	ug/L
2505	2-Methylnaphthalene	LW29S	0411047-02	11/8/04	8270	2-Methylnaphthalene	19	1.04	U	ug/L
2506	2,4,6-Trichlorophenol	LW29S	0411047-02	11/8/04	8270	2,4,6-Trichlorophenol	20	5.18	U	ug/L
2507	2,4,5-Trichlorophenol	LW29S	0411047-02	11/8/04	8270	2,4,5-Trichlorophenol	21	5.18	U	ug/L
2508	Acenaphthene	LW29S	0411047-02	11/8/04	8270	Acenaphthene	22	1.04	U	ug/L
2509	Dibenzofuran	LW29S	0411047-02	11/8/04	8270	Dibenzofuran	23	1.04	U	ug/L
2510	Fluorene	LW29S	0411047-02	11/8/04	8270	Fluorene	24	1.04	U	ug/L
2511	Bis(2-ethylhexyl)phthalate	LW29S	0411047-02	11/8/04	8270	Bis(2-ethylhexyl)phthalate	26	1.04	U	ug/L
2512	Acetone	LW29S	0411047-02	11/8/04	8260	Acetone	30	50	U	ug/L
2513	Carbon disulfide	LW29S	0411047-02	11/8/04	8260	Carbon disulfide	31	2	U	ug/L
2514	2-Butanone	LW29S	0411047-02	11/8/04	8260	2-Butanone	32	10	U	ug/L
2515	Benzene	LW29S	0411047-02	11/8/04	8260	Benzene	33	0.3	U	ug/L
2516	Bromoform	LW29S	0411047-02	11/8/04	8260	Bromoform	34	1	U	ug/L
2517	Toluene	LW29S	0411047-02	11/8/04	8260	Toluene	35	1	U	ug/L
2518	Ethylbenzene	LW29S	0411047-02	11/8/04	8260	Ethylbenzene	36	1	U	ug/L
2519	Styrene	LW29S	0411047-02	11/8/04	8260	Styrene	37	1	U	ug/L
2520	m,p-Xylene	LW29S	0411047-02	11/8/04	8260	m,p-Xylene	38	2	U	ug/L
2521	o-Xylene	LW29S	0411047-02	11/8/04	8260	o-Xylene	39	1	U	ug/L
2522	1,3,5-Trimethylbenzene	LW29S	0411047-02	11/8/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
2523	1,2,4-Trimethylbenzene	LW29S	0411047-02	11/8/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
2524	Isopropylbenzene	LW29S	0411047-02	11/8/04	8260	Isopropylbenzene	42	1	U	ug/L
2525	n-Propylbenzene	LW29S	0411047-02	11/8/04	8260	n-Propylbenzene	43	1	U	ug/L
2526	tert-Butylbenzene	LW29S	0411047-02	11/8/04	8260	tert-Butylbenzene	44	1	U	ug/L
2527	sec-Butylbenzene	LW29S	0411047-02	11/8/04	8260	sec-Butylbenzene	45	1	U	ug/L
2528	4-Isopropyltoluene	LW29S	0411047-02	11/8/04	8260	4-Isopropyltoluene	46	1	U	ug/L
2529	n-Butylbenzene	LW29S	0411047-02	11/8/04	8260	n-Butylbenzene	47	1	U	ug/L
2530	Naphthalene	LW29S	0411047-02	11/8/04	8260	Naphthalene	48	1	U	ug/L
2531	Methyl tert-butyl ether	LW29S	0411047-02	11/8/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
2532	Diesel Range Hydrocarbons	LW29S	0411047-02	11/8/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.36**		mg/L
2533	Lube Oil	LW29S	0411047-02	11/8/04	NWTPH-Dx	Lube Oil	54	0.503	U	mg/L
2534	Gasoline Range Hydrocarbons	LW29S	0411047-02	11/8/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	0.1	U	ug/L
2535	Arsenic	LW29S	0411047-02	11/8/04	6020	Arsenic	59	**0.00329**		ug/L
2536	Chromium	LW29S	0411047-02	11/8/04	6010	Chromium	60	**0.0169**		mg/L
2537	Copper	LW29S	0411047-02	11/8/04	6010	Copper	61	0.01	U	mg/L
2538	Lead	LW29S	0411047-02	11/8/04	6020	Lead	62	0.0001	U	ug/L
2539	Nickel	LW29S	0411047-02	11/8/04	6010	Nickel	63	0.005	U	mg/L
2540	Zinc	LW29S	0411047-02	11/8/04	6010	Zinc	64	0.01	U	mg/L
2541	Total Dissolved Solids	LW29S	0411047-02	11/8/04	1601	Total Dissolved Solids	74	**135**		mg/L
2542	Chloride	LW29S	0411047-02	11/8/04	9056	Chloride	75	**1.37**		mg/L
2543	pH	LW29S	0411047-02	11/8/04	FIELD	pH	82	6.66		s.u.
2544	Temperature	LW29S	0411047-02	11/8/04	FIELD	Temperature	83	14.5		c
2545	Conductivity	LW29S	0411047-02	11/8/04	FIELD	Conductivity	84	136		us
2546	Dissolved oxygen	LW29S	0411047-02	11/8/04	FIELD	Dissolved oxygen	85	0.96		mg/l
2547	Naphthalene	LW29S	0411047-02	11/8/04	8270SIM	Naphthalene	119	0.0529	U	ug/L
2548	Acenaphthylene	LW29S	0411047-02	11/8/04	8270SIM	Acenaphthylene	121	0.0529	U	ug/L
2549	Acenaphthene	LW29S	0411047-02	11/8/04	8270SIM	Acenaphthene	122	0.0529	U	ug/L
2550	Fluorene	LW29S	0411047-02	11/8/04	8270SIM	Fluorene	123	0.0529	U	ug/L
2551	Anthracene	LW29S	0411047-02	11/8/04	8270SIM	Anthracene	124	0.0529	U	ug/L
2552	1,1,1,2-Tetrachloroethane	LW29S	0411047-02	11/8/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
2553	1,1,1-Trichloroethane	LW29S	0411047-02	11/8/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
2554	1,1,2,2-Tetrachloroethane	LW29S	0411047-02	11/8/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
2555	1,1,2-Trichloroethane	LW29S	0411047-02	11/8/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
2556	1,1-Dichloroethane	LW29S	0411047-02	11/8/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
2557	1,1-Dichloroethene	LW29S	0411047-02	11/8/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
2558	1,1-Dichloropropene	LW29S	0411047-02	11/8/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
2559	1,2,3-Trichlorobenzene	LW29S	0411047-02	11/8/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
2560	1,2,3-Trichloropropane	LW29S	0411047-02	11/8/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
2561	1,2,4-Trichlorobenzene	LW29S	0411047-02	11/8/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
2562	1,2-Dibromo-3-chloropropane	LW29S	0411047-02	11/8/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
2563	1,2-Dibromoethane	LW29S	0411047-02	11/8/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
2564	1,2-Dichlorobenzene	LW29S	0411047-02	11/8/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
2565	1,2-Dichloroethane	LW29S	0411047-02	11/8/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
2566	1,2-Dichloropropane	LW29S	0411047-02	11/8/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
2567	1,3-Dichlorobenzene	LW29S	0411047-02	11/8/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
2568	1,3-Dichloropropane	LW29S	0411047-02	11/8/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
2569	1,4-Dichlorobenzene	LW29S	0411047-02	11/8/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
2570	2,2-Dichloropropane	LW29S	0411047-02	11/8/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
2571	2-Chlorotoluene	LW29S	0411047-02	11/8/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
2572	2-Hexanone	LW29S	0411047-02	11/8/04	8260	2-Hexanone	#N/A	10	U	ug/L
2573	4-Chlorotoluene	LW29S	0411047-02	11/8/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
2574	4-Methyl-2-pentanone	LW29S	0411047-02	11/8/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
2575	Acrylonitrile	LW29S	0411047-02	11/8/04	8260	Acrylonitrile	#N/A	5	U	ug/L
2576	Bromobenzene	LW29S	0411047-02	11/8/04	8260	Bromobenzene	#N/A	1	U	ug/L
2577	Bromochloromethane	LW29S	0411047-02	11/8/04	8260	Bromochloromethane	#N/A	1	U	ug/L
2578	Bromodichloromethane	LW29S	0411047-02	11/8/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
2579	Bromomethane	LW29S	0411047-02	11/8/04	8260	Bromomethane	#N/A	1	U	ug/L
2580	Carbon tetrachloride	LW29S	0411047-02	11/8/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
2581	Chlorobenzene	LW29S	0411047-02	11/8/04	8260	Chlorobenzene	#N/A	1	U	ug/L
2582	Chloroethane	LW29S	0411047-02	11/8/04	8260	Chloroethane	#N/A	1	U	ug/L
2583	Chloroform	LW29S	0411047-02	11/8/04	8260	Chloroform	#N/A	1	U	ug/L
2584	Chloromethane	LW29S	0411047-02	11/8/04	8260	Chloromethane	#N/A	1	U	ug/L
2585	cis-1,2-Dichloroethene	LW29S	0411047-02	11/8/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
2586	cis-1,3-Dichloropropene	LW29S	0411047-02	11/8/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
2587	Dibromochloromethane	LW29S	0411047-02	11/8/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
2588	Dibromomethane	LW29S	0411047-02	11/8/04	8260	Dibromomethane	#N/A	1	U	ug/L
2589	Dichlorodifluoromethane	LW29S	0411047-02	11/8/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
2590	Hexachlorobutadiene	LW29S	0411047-02	11/8/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
2591	Methylene chloride	LW29S	0411047-02	11/8/04	8260	Methylene chloride	#N/A	20	U	ug/L
2592	Tetrachloroethene	LW29S	0411047-02	11/8/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
2593	trans-1,2-Dichloroethene	LW29S	0411047-02	11/8/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
2594	trans-1,3-Dichloropropene	LW29S	0411047-02	11/8/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
2595	Trichloroethene	LW29S	0411047-02	11/8/04	8260	Trichloroethene	#N/A	1	U	ug/L
2596	Trichlorofluoromethane	LW29S	0411047-02	11/8/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
2597	Vinyl chloride	LW29S	0411047-02	11/8/04	8260	Vinyl chloride	#N/A	1	U	ug/L
2598	1,2,4-Trichlorobenzene	LW29S	0411047-02	11/8/04	8270	1,2,4-Trichlorobenzene	#N/A	1.04	U	ug/L
2599	1,2-Dichlorobenzene	LW29S	0411047-02	11/8/04	8270	1,2-Dichlorobenzene	#N/A	1.04	U	ug/L
2600	1,3-Dichlorobenzene	LW29S	0411047-02	11/8/04	8270	1,3-Dichlorobenzene	#N/A	1.04	U	ug/L
2601	1,4-Dichlorobenzene	LW29S	0411047-02	11/8/04	8270	1,4-Dichlorobenzene	#N/A	1.04	U	ug/L
2602	2,4-Dichlorophenol	LW29S	0411047-02	11/8/04	8270	2,4-Dichlorophenol	#N/A	3.11	U	ug/L
2603	2,4-Dinitrophenol	LW29S	0411047-02	11/8/04	8270	2,4-Dinitrophenol	#N/A	10.4	U	ug/L
2604	2,4-Dinitrotoluene	LW29S	0411047-02	11/8/04	8270	2,4-Dinitrotoluene	#N/A	5.18	U	ug/L
2605	2,6-Dinitrotoluene	LW29S	0411047-02	11/8/04	8270	2,6-Dinitrotoluene	#N/A	5.18	U	ug/L
2606	2-Chloronaphthalene	LW29S	0411047-02	11/8/04	8270	2-Chloronaphthalene	#N/A	1.04	U	ug/L
2607	2-Chlorophenol	LW29S	0411047-02	11/8/04	8270	2-Chlorophenol	#N/A	1.04	U	ug/L
2608	2-Methylphenol	LW29S	0411047-02	11/8/04	8270	2-Methylphenol	#N/A	2.07	U	ug/L
2609	2-Nitroaniline	LW29S	0411047-02	11/8/04	8270	2-Nitroaniline	#N/A	5.18	U	ug/L
2610	2-Nitrophenol	LW29S	0411047-02	11/8/04	8270	2-Nitrophenol	#N/A	5.18	U	ug/L
2611	3,3'-Dichlorobenzidine	LW29S	0411047-02	11/8/04	8270	3,3'-Dichlorobenzidine	#N/A	5.18	U	ug/L
2612	3-Nitroaniline	LW29S	0411047-02	11/8/04	8270	3-Nitroaniline	#N/A	6.22	U	ug/L
2613	4,6-Dinitro-2-methylphenol	LW29S	0411047-02	11/8/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.4	U	ug/L
2614	4-Bromophenyl phenyl ether	LW29S	0411047-02	11/8/04	8270	4-Bromophenyl phenyl ether	#N/A	1.04	U	ug/L
2615	4-Chloro-3-methylphenol	LW29S	0411047-02	11/8/04	8270	4-Chloro-3-methylphenol	#N/A	2.07	U	ug/L
2616	4-Chloroaniline	LW29S	0411047-02	11/8/04	8270	4-Chloroaniline	#N/A	3.11	U	ug/L
2617	4-Chlorophenyl phenyl ether	LW29S	0411047-02	11/8/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.04	U	ug/L
2618	4-Nitroaniline	LW29S	0411047-02	11/8/04	8270	4-Nitroaniline	#N/A	5.18	U	ug/L
2619	4-Nitrophenol	LW29S	0411047-02	11/8/04	8270	4-Nitrophenol	#N/A	5.18	U	ug/L
2620	Benz(a)anthracene	LW29S	0411047-02	11/8/04	8270	Benz(a)anthracene	#N/A	1.04	U	ug/L
2621	Benzo(a)pyrene	LW29S	0411047-02	11/8/04	8270	Benzo(a)pyrene	#N/A	1.04	U	ug/L
2622	Benzo(b)fluoranthene	LW29S	0411047-02	11/8/04	8270	Benzo(b)fluoranthene	#N/A	1.04	U	ug/L
2623	Benzo(g,h,i)perylene	LW29S	0411047-02	11/8/04	8270	Benzo(g,h,i)perylene	#N/A	1.04	U	ug/L
2624	Benzo(k)fluoranthene	LW29S	0411047-02	11/8/04	8270	Benzo(k)fluoranthene	#N/A	1.04	U	ug/L
2625	Benzyl Alcohol	LW29S	0411047-02	11/8/04	8270	Benzyl Alcohol	#N/A	5.18	U	ug/L
2626	Bis(2-chloroethoxy)methane	LW29S	0411047-02	11/8/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.04	U	ug/L
2627	Bis(2-chloroethyl)ether	LW29S	0411047-02	11/8/04	8270	Bis(2-chloroethyl)ether	#N/A	2.07	U	ug/L
2628	Bis(2-chloroisopropyl)ether	LW29S	0411047-02	11/8/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.04	U	ug/L

	A	B	C	D	E	F	G	H	I	J
2629	Butyl benzyl phthalate	LW29S	0411047-02	11/8/04	8270	Butyl benzyl phthalate	#N/A	1.04	U	ug/L
2630	Carbazole	LW29S	0411047-02	11/8/04	8270	Carbazole	#N/A	1.04	U	ug/L
2631	Chrysene	LW29S	0411047-02	11/8/04	8270	Chrysene	#N/A	1.04	U	ug/L
2632	Dibenz(a,h)anthracene	LW29S	0411047-02	11/8/04	8270	Dibenz(a,h)anthracene	#N/A	1.04	U	ug/L
2633	Diethyl phthalate	LW29S	0411047-02	11/8/04	8270	Diethyl phthalate	#N/A	1.04	U	ug/L
2634	Dimethyl phthalate	LW29S	0411047-02	11/8/04	8270	Dimethyl phthalate	#N/A	1.04	U	ug/L
2635	Di-n-butyl phthalate	LW29S	0411047-02	11/8/04	8270	Di-n-butyl phthalate	#N/A	1.04	U	ug/L
2636	Di-n-octyl phthalate	LW29S	0411047-02	11/8/04	8270	Di-n-octyl phthalate	#N/A	1.04	U	ug/L
2637	Fluoranthene	LW29S	0411047-02	11/8/04	8270	Fluoranthene	#N/A	1.04	U	ug/L
2638	Hexachlorobenzene	LW29S	0411047-02	11/8/04	8270	Hexachlorobenzene	#N/A	1.04	U	ug/L
2639	Hexachlorobutadiene	LW29S	0411047-02	11/8/04	8270	Hexachlorobutadiene	#N/A	2.07	U	ug/L
2640	Hexachlorocyclopentadiene	LW29S	0411047-02	11/8/04	8270	Hexachlorocyclopentadiene	#N/A	5.18	U	ug/L
2641	Hexachloroethane	LW29S	0411047-02	11/8/04	8270	Hexachloroethane	#N/A	2.07	U	ug/L
2642	Indeno(1,2,3-cd)pyrene	LW29S	0411047-02	11/8/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.04	U	ug/L
2643	Nitrobenzene	LW29S	0411047-02	11/8/04	8270	Nitrobenzene	#N/A	1.04	U	ug/L
2644	N-Nitrosodimethylamine	LW29S	0411047-02	11/8/04	8270	N-Nitrosodimethylamine	#N/A	1.04	U	ug/L
2645	N-Nitrosodi-n-propylamine	LW29S	0411047-02	11/8/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.07	U	ug/L
2646	N-Nitrosodiphenylamine	LW29S	0411047-02	11/8/04	8270	N-Nitrosodiphenylamine	#N/A	1.04	U	ug/L
2647	Phenanthrene	LW29S	0411047-02	11/8/04	8270	Phenanthrene	#N/A	1.04	U	ug/L
2648	Pyrene	LW29S	0411047-02	11/8/04	8270	Pyrene	#N/A	1.04	U	ug/L
2649	Pyridine	LW29S	0411047-02	11/8/04	8270	Pyridine	#N/A	5.18	U	ug/L
2650	Benz(a)anthracene	LW29S	0411047-02	11/8/04	8270SIM	Benz(a)anthracene	#N/A	0.0529	U	ug/L
2651	Benzo(a)pyrene	LW29S	0411047-02	11/8/04	8270SIM	Benzo(a)pyrene	#N/A	0.0529	U	ug/L
2652	Benzo(b)fluoranthene	LW29S	0411047-02	11/8/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0529	U	ug/L
2653	Benzo(g,h,i)perylene	LW29S	0411047-02	11/8/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0529	U	ug/L
2654	Benzo(k)fluoranthene	LW29S	0411047-02	11/8/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0529	U	ug/L
2655	Chrysene	LW29S	0411047-02	11/8/04	8270SIM	Chrysene	#N/A	0.0529	U	ug/L
2656	Dibenz(a,h)anthracene	LW29S	0411047-02	11/8/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0529	U	ug/L
2657	Fluoranthene	LW29S	0411047-02	11/8/04	8270SIM	Fluoranthene	#N/A	0.0529	U	ug/L
2658	Indeno(1,2,3-cd)pyrene	LW29S	0411047-02	11/8/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0529	U	ug/L
2659	Phenanthrene	LW29S	0411047-02	11/8/04	8270SIM	Phenanthrene	#N/A	0.0529	U	ug/L
2660	Pyrene	LW29S	0411047-02	11/8/04	8270SIM	Pyrene	#N/A	0.0529	U	ug/L
2661	Turbidity	LW29S	0411047-02	11/8/04	FIELD	Turbidity	#N/A	0		ntu
2662	Pentachlorophenol	LW30D	0411047-05	11/8/04	8270	Pentachlorophenol	3	4.99	U	ug/L
2663	Phenol	LW30D	0411047-05	11/8/04	8270	Phenol	13	1.99	U	ug/L
2664	3-&4-Methylphenol	LW30D	0411047-05	11/8/04	8270	3-&4-Methylphenol	14	9.97	U	ug/L
2665	Isophorone	LW30D	0411047-05	11/8/04	8270	Isophorone	15	0.997	U	ug/L
2666	2,4-Dimethylphenol	LW30D	0411047-05	11/8/04	8270	2,4-Dimethylphenol	16	2.99	U	ug/L
2667	Benzoic Acid	LW30D	0411047-05	11/8/04	8270	Benzoic Acid	17	19.9	U	ug/L
2668	Naphthalene	LW30D	0411047-05	11/8/04	8270	Naphthalene	18	0.997	U	ug/L
2669	2-Methylnaphthalene	LW30D	0411047-05	11/8/04	8270	2-Methylnaphthalene	19	0.997	U	ug/L
2670	2,4,6-Trichlorophenol	LW30D	0411047-05	11/8/04	8270	2,4,6-Trichlorophenol	20	4.99	U	ug/L
2671	2,4,5-Trichlorophenol	LW30D	0411047-05	11/8/04	8270	2,4,5-Trichlorophenol	21	4.99	U	ug/L
2672	Acenaphthene	LW30D	0411047-05	11/8/04	8270	Acenaphthene	22	0.997	U	ug/L
2673	Dibenzofuran	LW30D	0411047-05	11/8/04	8270	Dibenzofuran	23	0.997	U	ug/L
2674	Fluorene	LW30D	0411047-05	11/8/04	8270	Fluorene	24	0.997	U	ug/L
2675	Bis(2-ethylhexyl)phthalate	LW30D	0411047-05	11/8/04	8270	Bis(2-ethylhexyl)phthalate	26	**2.04**		ug/L
2676	Acetone	LW30D	0411047-05	11/8/04	8260	Acetone	30	50	U	ug/L
2677	Carbon disulfide	LW30D	0411047-05	11/8/04	8260	Carbon disulfide	31	2	U	ug/L
2678	2-Butanone	LW30D	0411047-05	11/8/04	8260	2-Butanone	32	10	U	ug/L
2679	Benzene	LW30D	0411047-05	11/8/04	8260	Benzene	33	0.3	U	ug/L
2680	Bromoform	LW30D	0411047-05	11/8/04	8260	Bromoform	34	1	U	ug/L
2681	Toluene	LW30D	0411047-05	11/8/04	8260	Toluene	35	1	U	ug/L
2682	Ethylbenzene	LW30D	0411047-05	11/8/04	8260	Ethylbenzene	36	1	U	ug/L
2683	Styrene	LW30D	0411047-05	11/8/04	8260	Styrene	37	1	U	ug/L
2684	m,p-Xylene	LW30D	0411047-05	11/8/04	8260	m,p-Xylene	38	2	U	ug/L
2685	o-Xylene	LW30D	0411047-05	11/8/04	8260	o-Xylene	39	1	U	ug/L
2686	1,3,5-Trimethylbenzene	LW30D	0411047-05	11/8/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
2687	1,2,4-Trimethylbenzene	LW30D	0411047-05	11/8/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
2688	Isopropylbenzene	LW30D	0411047-05	11/8/04	8260	Isopropylbenzene	42	1	U	ug/L
2689	n-Propylbenzene	LW30D	0411047-05	11/8/04	8260	n-Propylbenzene	43	1	U	ug/L
2690	tert-Butylbenzene	LW30D	0411047-05	11/8/04	8260	tert-Butylbenzene	44	1	U	ug/L
2691	sec-Butylbenzene	LW30D	0411047-05	11/8/04	8260	sec-Butylbenzene	45	1	U	ug/L
2692	4-Isopropyltoluene	LW30D	0411047-05	11/8/04	8260	4-Isopropyltoluene	46	1	U	ug/L
2693	n-Butylbenzene	LW30D	0411047-05	11/8/04	8260	n-Butylbenzene	47	1	U	ug/L
2694	Naphthalene	LW30D	0411047-05	11/8/04	8260	Naphthalene	48	1	U	ug/L
2695	Methyl tert-butyl ether	LW30D	0411047-05	11/8/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
2696	Diesel Range Hydrocarbons	LW30D	0411047-05	11/8/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.319**		mg/L
2697	Lube Oil	LW30D	0411047-05	11/8/04	NWTPH-Dx	Lube Oil	54	0.525	U	mg/L
2698	Gasoline Range Hydrocarbons	LW30D	0411047-05	11/8/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	0.1	U	ug/L
2699	Arsenic	LW30D	0411047-05	11/8/04	6020	Arsenic	59	**0.0128**		ug/L
2700	Chromium	LW30D	0411047-05	11/8/04	6010	Chromium	60	**0.0442**		mg/L
2701	Copper	LW30D	0411047-05	11/8/04	6010	Copper	61	**0.0385**		mg/L

	A	B	C	D	E	F	G	H	I	J
2702	Lead	LW30D	0411047-05	11/8/04	6020	Lead	62	**0.00785**		ug/L
2703	Nickel	LW30D	0411047-05	11/8/04	6010	Nickel	63	0.005	U	mg/L
2704	Zinc	LW30D	0411047-05	11/8/04	6010	Zinc	64	**0.0736**		mg/L
2705	Total Dissolved Solids	LW30D	0411047-05	11/8/04	1601	Total Dissolved Solids	74	**344**		mg/L
2706	Chloride	LW30D	0411047-05	11/8/04	9056	Chloride	75	**6.54**		mg/L
2707	pH	LW30D	0411047-05	11/8/04	FIELD	pH	82	6.71		s.u.
2708	Temperature	LW30D	0411047-05	11/8/04	FIELD	Temperature	83	14.6		c
2709	Conductivity	LW30D	0411047-05	11/8/04	FIELD	Conductivity	84	476		us
2710	Dissolved oxygen	LW30D	0411047-05	11/8/04	FIELD	Dissolved oxygen	85	0.9		mg/l
2711	Naphthalene	LW30D	0411047-05	11/8/04	8270SIM	Naphthalene	119	0.05	U	ug/L
2712	Acenaphthylene	LW30D	0411047-05	11/8/04	8270SIM	Acenaphthylene	121	0.05	U	ug/L
2713	Acenaphthene	LW30D	0411047-05	11/8/04	8270SIM	Acenaphthene	122	0.05	U	ug/L
2714	Fluorene	LW30D	0411047-05	11/8/04	8270SIM	Fluorene	123	0.05	U	ug/L
2715	Anthracene	LW30D	0411047-05	11/8/04	8270SIM	Anthracene	124	0.05	U	ug/L
2716	1,1,1,2-Tetrachloroethane	LW30D	0411047-05	11/8/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
2717	1,1,1-Trichloroethane	LW30D	0411047-05	11/8/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
2718	1,1,2,2-Tetrachloroethane	LW30D	0411047-05	11/8/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
2719	1,1,2-Trichloroethane	LW30D	0411047-05	11/8/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
2720	1,1-Dichloroethane	LW30D	0411047-05	11/8/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
2721	1,1-Dichloroethene	LW30D	0411047-05	11/8/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
2722	1,1-Dichloropropene	LW30D	0411047-05	11/8/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
2723	1,2,3-Trichlorobenzene	LW30D	0411047-05	11/8/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
2724	1,2,3-Trichloropropane	LW30D	0411047-05	11/8/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
2725	1,2,4-Trichlorobenzene	LW30D	0411047-05	11/8/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
2726	1,2-Dibromo-3-chloropropane	LW30D	0411047-05	11/8/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
2727	1,2-Dibromoethane	LW30D	0411047-05	11/8/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
2728	1,2-Dichlorobenzene	LW30D	0411047-05	11/8/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
2729	1,2-Dichloroethane	LW30D	0411047-05	11/8/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
2730	1,2-Dichloropropane	LW30D	0411047-05	11/8/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
2731	1,3-Dichlorobenzene	LW30D	0411047-05	11/8/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
2732	1,3-Dichloropropane	LW30D	0411047-05	11/8/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
2733	1,4-Dichlorobenzene	LW30D	0411047-05	11/8/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
2734	2,2-Dichloropropane	LW30D	0411047-05	11/8/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
2735	2-Chlorotoluene	LW30D	0411047-05	11/8/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
2736	2-Hexanone	LW30D	0411047-05	11/8/04	8260	2-Hexanone	#N/A	10	U	ug/L
2737	4-Chlorotoluene	LW30D	0411047-05	11/8/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
2738	4-Methyl-2-pentanone	LW30D	0411047-05	11/8/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
2739	Acrylonitrile	LW30D	0411047-05	11/8/04	8260	Acrylonitrile	#N/A	5	U	ug/L
2740	Bromobenzene	LW30D	0411047-05	11/8/04	8260	Bromobenzene	#N/A	1	U	ug/L
2741	Bromochloromethane	LW30D	0411047-05	11/8/04	8260	Bromochloromethane	#N/A	1	U	ug/L
2742	Bromodichloromethane	LW30D	0411047-05	11/8/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
2743	Bromomethane	LW30D	0411047-05	11/8/04	8260	Bromomethane	#N/A	1	U	ug/L
2744	Carbon tetrachloride	LW30D	0411047-05	11/8/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
2745	Chlorobenzene	LW30D	0411047-05	11/8/04	8260	Chlorobenzene	#N/A	1	U	ug/L
2746	Chloroethane	LW30D	0411047-05	11/8/04	8260	Chloroethane	#N/A	1	U	ug/L
2747	Chloroform	LW30D	0411047-05	11/8/04	8260	Chloroform	#N/A	1	U	ug/L
2748	Chloromethane	LW30D	0411047-05	11/8/04	8260	Chloromethane	#N/A	1	U	ug/L
2749	cis-1,2-Dichloroethene	LW30D	0411047-05	11/8/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
2750	cis-1,3-Dichloropropene	LW30D	0411047-05	11/8/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
2751	Dibromochloromethane	LW30D	0411047-05	11/8/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
2752	Dibromomethane	LW30D	0411047-05	11/8/04	8260	Dibromomethane	#N/A	1	U	ug/L
2753	Dichlorodifluoromethane	LW30D	0411047-05	11/8/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
2754	Hexachlorobutadiene	LW30D	0411047-05	11/8/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
2755	Methylene chloride	LW30D	0411047-05	11/8/04	8260	Methylene chloride	#N/A	20	U	ug/L
2756	Tetrachloroethene	LW30D	0411047-05	11/8/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
2757	trans-1,2-Dichloroethene	LW30D	0411047-05	11/8/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
2758	trans-1,3-Dichloropropene	LW30D	0411047-05	11/8/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
2759	Trichloroethene	LW30D	0411047-05	11/8/04	8260	Trichloroethene	#N/A	1	U	ug/L
2760	Trichlorofluoromethane	LW30D	0411047-05	11/8/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
2761	Vinyl chloride	LW30D	0411047-05	11/8/04	8260	Vinyl chloride	#N/A	1	U	ug/L
2762	1,2,4-Trichlorobenzene	LW30D	0411047-05	11/8/04	8270	1,2,4-Trichlorobenzene	#N/A	0.997	U	ug/L
2763	1,2-Dichlorobenzene	LW30D	0411047-05	11/8/04	8270	1,2-Dichlorobenzene	#N/A	0.997	U	ug/L
2764	1,3-Dichlorobenzene	LW30D	0411047-05	11/8/04	8270	1,3-Dichlorobenzene	#N/A	0.997	U	ug/L
2765	1,4-Dichlorobenzene	LW30D	0411047-05	11/8/04	8270	1,4-Dichlorobenzene	#N/A	0.997	U	ug/L
2766	2,4-Dichlorophenol	LW30D	0411047-05	11/8/04	8270	2,4-Dichlorophenol	#N/A	2.99	U	ug/L
2767	2,4-Dinitrophenol	LW30D	0411047-05	11/8/04	8270	2,4-Dinitrophenol	#N/A	9.97	U	ug/L
2768	2,4-Dinitrotoluene	LW30D	0411047-05	11/8/04	8270	2,4-Dinitrotoluene	#N/A	4.99	U	ug/L
2769	2,6-Dinitrotoluene	LW30D	0411047-05	11/8/04	8270	2,6-Dinitrotoluene	#N/A	4.99	U	ug/L
2770	2-Chloronaphthalene	LW30D	0411047-05	11/8/04	8270	2-Chloronaphthalene	#N/A	0.997	U	ug/L
2771	2-Chlorophenol	LW30D	0411047-05	11/8/04	8270	2-Chlorophenol	#N/A	0.997	U	ug/L
2772	2-Methylphenol	LW30D	0411047-05	11/8/04	8270	2-Methylphenol	#N/A	1.99	U	ug/L
2773	2-Nitroaniline	LW30D	0411047-05	11/8/04	8270	2-Nitroaniline	#N/A	4.99	U	ug/L
2774	2-Nitrophenol	LW30D	0411047-05	11/8/04	8270	2-Nitrophenol	#N/A	4.99	U	ug/L

	A	B	C	D	E	F	G	H	I	J
2775	3,3'-Dichlorobenzidine	LW30D	0411047-05	11/8/04	8270	3,3'-Dichlorobenzidine	#N/A	4.99	U	ug/L
2776	3-Nitroaniline	LW30D	0411047-05	11/8/04	8270	3-Nitroaniline	#N/A	5.98	U	ug/L
2777	4,6-Dinitro-2-methylphenol	LW30D	0411047-05	11/8/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.97	U	ug/L
2778	4-Bromophenyl phenyl ether	LW30D	0411047-05	11/8/04	8270	4-Bromophenyl phenyl ether	#N/A	0.997	U	ug/L
2779	4-Chloro-3-methylphenol	LW30D	0411047-05	11/8/04	8270	4-Chloro-3-methylphenol	#N/A	1.99	U	ug/L
2780	4-Chloroaniline	LW30D	0411047-05	11/8/04	8270	4-Chloroaniline	#N/A	2.99	U	ug/L
2781	4-Chlorophenyl phenyl ether	LW30D	0411047-05	11/8/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.997	U	ug/L
2782	4-Nitroaniline	LW30D	0411047-05	11/8/04	8270	4-Nitroaniline	#N/A	4.99	U	ug/L
2783	4-Nitrophenol	LW30D	0411047-05	11/8/04	8270	4-Nitrophenol	#N/A	4.99	U	ug/L
2784	Benz(a)anthracene	LW30D	0411047-05	11/8/04	8270	Benz(a)anthracene	#N/A	0.997	U	ug/L
2785	Benzo(a)pyrene	LW30D	0411047-05	11/8/04	8270	Benzo(a)pyrene	#N/A	0.997	U	ug/L
2786	Benzo(b)fluoranthene	LW30D	0411047-05	11/8/04	8270	Benzo(b)fluoranthene	#N/A	0.997	U	ug/L
2787	Benzo(g,h,i)perylene	LW30D	0411047-05	11/8/04	8270	Benzo(g,h,i)perylene	#N/A	0.997	U	ug/L
2788	Benzo(k)fluoranthene	LW30D	0411047-05	11/8/04	8270	Benzo(k)fluoranthene	#N/A	0.997	U	ug/L
2789	Benzyl Alcohol	LW30D	0411047-05	11/8/04	8270	Benzyl Alcohol	#N/A	4.99	U	ug/L
2790	Bis(2-chloroethoxy)methane	LW30D	0411047-05	11/8/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.997	U	ug/L
2791	Bis(2-chloroethyl)ether	LW30D	0411047-05	11/8/04	8270	Bis(2-chloroethyl)ether	#N/A	1.99	U	ug/L
2792	Bis(2-chloroisopropyl)ether	LW30D	0411047-05	11/8/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.997	U	ug/L
2793	Butyl benzyl phthalate	LW30D	0411047-05	11/8/04	8270	Butyl benzyl phthalate	#N/A	0.997	U	ug/L
2794	Carbazole	LW30D	0411047-05	11/8/04	8270	Carbazole	#N/A	0.997	U	ug/L
2795	Chrysene	LW30D	0411047-05	11/8/04	8270	Chrysene	#N/A	0.997	U	ug/L
2796	Dibenz(a,h)anthracene	LW30D	0411047-05	11/8/04	8270	Dibenz(a,h)anthracene	#N/A	0.997	U	ug/L
2797	Diethyl phthalate	LW30D	0411047-05	11/8/04	8270	Diethyl phthalate	#N/A	0.997	U	ug/L
2798	Dimethyl phthalate	LW30D	0411047-05	11/8/04	8270	Dimethyl phthalate	#N/A	0.997	U	ug/L
2799	Di-n-butyl phthalate	LW30D	0411047-05	11/8/04	8270	Di-n-butyl phthalate	#N/A	0.997	U	ug/L
2800	Di-n-octyl phthalate	LW30D	0411047-05	11/8/04	8270	Di-n-octyl phthalate	#N/A	0.997	U	ug/L
2801	Fluoranthene	LW30D	0411047-05	11/8/04	8270	Fluoranthene	#N/A	0.997	U	ug/L
2802	Hexachlorobenzene	LW30D	0411047-05	11/8/04	8270	Hexachlorobenzene	#N/A	0.997	U	ug/L
2803	Hexachlorobutadiene	LW30D	0411047-05	11/8/04	8270	Hexachlorobutadiene	#N/A	1.99	U	ug/L
2804	Hexachlorocyclopentadiene	LW30D	0411047-05	11/8/04	8270	Hexachlorocyclopentadiene	#N/A	4.99	U	ug/L
2805	Hexachloroethane	LW30D	0411047-05	11/8/04	8270	Hexachloroethane	#N/A	1.99	U	ug/L
2806	Indeno(1,2,3-cd)pyrene	LW30D	0411047-05	11/8/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.997	U	ug/L
2807	Nitrobenzene	LW30D	0411047-05	11/8/04	8270	Nitrobenzene	#N/A	0.997	U	ug/L
2808	N-Nitrosodimethylamine	LW30D	0411047-05	11/8/04	8270	N-Nitrosodimethylamine	#N/A	0.997	U	ug/L
2809	N-Nitrosodi-n-propylamine	LW30D	0411047-05	11/8/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.99	U	ug/L
2810	N-Nitrosodiphenylamine	LW30D	0411047-05	11/8/04	8270	N-Nitrosodiphenylamine	#N/A	0.997	U	ug/L
2811	Phenanthrene	LW30D	0411047-05	11/8/04	8270	Phenanthrene	#N/A	0.997	U	ug/L
2812	Pyrene	LW30D	0411047-05	11/8/04	8270	Pyrene	#N/A	0.997	U	ug/L
2813	Pyridine	LW30D	0411047-05	11/8/04	8270	Pyridine	#N/A	4.99	U	ug/L
2814	Benz(a)anthracene	LW30D	0411047-05	11/8/04	8270SIM	Benz(a)anthracene	#N/A	0.05	U	ug/L
2815	Benzo(a)pyrene	LW30D	0411047-05	11/8/04	8270SIM	Benzo(a)pyrene	#N/A	0.05	U	ug/L
2816	Benzo(b)fluoranthene	LW30D	0411047-05	11/8/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.05	U	ug/L
2817	Benzo(g,h,i)perylene	LW30D	0411047-05	11/8/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.05	U	ug/L
2818	Benzo(k)fluoranthene	LW30D	0411047-05	11/8/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.05	U	ug/L
2819	Chrysene	LW30D	0411047-05	11/8/04	8270SIM	Chrysene	#N/A	0.05	U	ug/L
2820	Dibenz(a,h)anthracene	LW30D	0411047-05	11/8/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.05	U	ug/L
2821	Fluoranthene	LW30D	0411047-05	11/8/04	8270SIM	Fluoranthene	#N/A	0.05	U	ug/L
2822	Indeno(1,2,3-cd)pyrene	LW30D	0411047-05	11/8/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.05	U	ug/L
2823	Phenanthrene	LW30D	0411047-05	11/8/04	8270SIM	Phenanthrene	#N/A	0.05	U	ug/L
2824	Pyrene	LW30D	0411047-05	11/8/04	8270SIM	Pyrene	#N/A	0.05	U	ug/L
2825	Turbidity	LW30D	0411047-05	11/8/04	FIELD	Turbidity	#N/A	181		ntu
2826	Pentachlorophenol	LW30S	0411047-04	11/8/04	8270	Pentachlorophenol	3	4.89	U	ug/L
2827	Phenol	LW30S	0411047-04	11/8/04	8270	Phenol	13	1.96	U	ug/L
2828	3-&4-Methylphenol	LW30S	0411047-04	11/8/04	8270	3-&4-Methylphenol	14	9.78	U	ug/L
2829	Isophorone	LW30S	0411047-04	11/8/04	8270	Isophorone	15	0.978	U	ug/L
2830	2,4-Dimethylphenol	LW30S	0411047-04	11/8/04	8270	2,4-Dimethylphenol	16	2.93	U	ug/L
2831	Benzoic Acid	LW30S	0411047-04	11/8/04	8270	Benzoic Acid	17	19.6	U	ug/L
2832	Naphthalene	LW30S	0411047-04	11/8/04	8270	Naphthalene	18	0.978	U	ug/L
2833	2-Methylnaphthalene	LW30S	0411047-04	11/8/04	8270	2-Methylnaphthalene	19	0.978	U	ug/L
2834	2,4,6-Trichlorophenol	LW30S	0411047-04	11/8/04	8270	2,4,6-Trichlorophenol	20	4.89	U	ug/L
2835	2,4,5-Trichlorophenol	LW30S	0411047-04	11/8/04	8270	2,4,5-Trichlorophenol	21	4.89	U	ug/L
2836	Acenaphthene	LW30S	0411047-04	11/8/04	8270	Acenaphthene	22	0.978	U	ug/L
2837	Dibenzofuran	LW30S	0411047-04	11/8/04	8270	Dibenzofuran	23	0.978	U	ug/L
2838	Fluorene	LW30S	0411047-04	11/8/04	8270	Fluorene	24	0.978	U	ug/L
2839	Bis(2-ethylhexyl)phthalate	LW30S	0411047-04	11/8/04	8270	Bis(2-ethylhexyl)phthalate	26	0.978	U	ug/L
2840	Acetone	LW30S	0411047-04	11/8/04	8260	Acetone	30	50	U	ug/L
2841	Carbon disulfide	LW30S	0411047-04	11/8/04	8260	Carbon disulfide	31	2	U	ug/L
2842	2-Butanone	LW30S	0411047-04	11/8/04	8260	2-Butanone	32	10	U	ug/L
2843	Benzene	LW30S	0411047-04	11/8/04	8260	Benzene	33	0.3	U	ug/L
2844	Bromoform	LW30S	0411047-04	11/8/04	8260	Bromoform	34	1	U	ug/L
2845	Toluene	LW30S	0411047-04	11/8/04	8260	Toluene	35	1	U	ug/L
2846	Ethylbenzene	LW30S	0411047-04	11/8/04	8260	Ethylbenzene	36	1	U	ug/L
2847	Styrene	LW30S	0411047-04	11/8/04	8260	Styrene	37	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
2848	m,p-Xylene	LW30S	0411047-04	11/8/04	8260	m,p-Xylene	38	2	U	ug/L
2849	o-Xylene	LW30S	0411047-04	11/8/04	8260	o-Xylene	39	1	U	ug/L
2850	1,3,5-Trimethylbenzene	LW30S	0411047-04	11/8/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
2851	1,2,4-Trimethylbenzene	LW30S	0411047-04	11/8/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
2852	Isopropylbenzene	LW30S	0411047-04	11/8/04	8260	Isopropylbenzene	42	**4.67**		ug/L
2853	n-Propylbenzene	LW30S	0411047-04	11/8/04	8260	n-Propylbenzene	43	**28**		ug/L
2854	tert-Butylbenzene	LW30S	0411047-04	11/8/04	8260	tert-Butylbenzene	44	1	U	ug/L
2855	sec-Butylbenzene	LW30S	0411047-04	11/8/04	8260	sec-Butylbenzene	45	**1.17**		ug/L
2856	4-Isopropyltoluene	LW30S	0411047-04	11/8/04	8260	4-Isopropyltoluene	46	1	U	ug/L
2857	n-Butylbenzene	LW30S	0411047-04	11/8/04	8260	n-Butylbenzene	47	**3.55**		ug/L
2858	Naphthalene	LW30S	0411047-04	11/8/04	8260	Naphthalene	48	1	U	ug/L
2859	Methyl tert-butyl ether	LW30S	0411047-04	11/8/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
2860	Diesel Range Hydrocarbons	LW30S	0411047-04	11/8/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.747**		mg/L
2861	Lube Oil	LW30S	0411047-04	11/8/04	NWTPH-Dx	Lube Oil	54	0.491	U	mg/L
2862	Gasoline Range Hydrocarbons	LW30S	0411047-04	11/8/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**0.637**		ug/L
2863	Arsenic	LW30S	0411047-04	11/8/04	6020	Arsenic	59	**0.0141**		ug/L
2864	Chromium	LW30S	0411047-04	11/8/04	6010	Chromium	60	**0.0229**		mg/L
2865	Copper	LW30S	0411047-04	11/8/04	6010	Copper	61	0.01	U	mg/L
2866	Lead	LW30S	0411047-04	11/8/04	6020	Lead	62	**0.00076**		ug/L
2867	Nickel	LW30S	0411047-04	11/8/04	6010	Nickel	63	0.005	U	mg/L
2868	Zinc	LW30S	0411047-04	11/8/04	6010	Zinc	64	0.01	U	mg/L
2869	Total Dissolved Solids	LW30S	0411047-04	11/8/04	1601	Total Dissolved Solids	74	**168**		mg/L
2870	Chloride	LW30S	0411047-04	11/8/04	9056	Chloride	75	**1.35**		mg/L
2871	pH	LW30S	0411047-04	11/8/04	FIELD	pH	82	6.84		s.u.
2872	Temperature	LW30S	0411047-04	11/8/04	FIELD	Temperature	83	14.3		c
2873	Conductivity	LW30S	0411047-04	11/8/04	FIELD	Conductivity	84	176		us
2874	Dissolved oxygen	LW30S	0411047-04	11/8/04	FIELD	Dissolved oxygen	85	0.31		mg/l
2875	Naphthalene	LW30S	0411047-04	11/8/04	8270SIM	Naphthalene	119	**0.308**		ug/L
2876	Acenaphthylene	LW30S	0411047-04	11/8/04	8270SIM	Acenaphthylene	121	**0.0866**		ug/L
2877	Acenaphthene	LW30S	0411047-04	11/8/04	8270SIM	Acenaphthene	122	**0.404**		ug/L
2878	Fluorene	LW30S	0411047-04	11/8/04	8270SIM	Fluorene	123	**0.799**		ug/L
2879	Anthracene	LW30S	0411047-04	11/8/04	8270SIM	Anthracene	124	**0.0481**		ug/L
2880	1,1,1,2-Tetrachloroethane	LW30S	0411047-04	11/8/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
2881	1,1,1-Trichloroethane	LW30S	0411047-04	11/8/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
2882	1,1,2,2-Tetrachloroethane	LW30S	0411047-04	11/8/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
2883	1,1,2-Trichloroethane	LW30S	0411047-04	11/8/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
2884	1,1-Dichloroethane	LW30S	0411047-04	11/8/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
2885	1,1-Dichloroethene	LW30S	0411047-04	11/8/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
2886	1,1-Dichloropropene	LW30S	0411047-04	11/8/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
2887	1,2,3-Trichlorobenzene	LW30S	0411047-04	11/8/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
2888	1,2,3-Trichloropropane	LW30S	0411047-04	11/8/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
2889	1,2,4-Trichlorobenzene	LW30S	0411047-04	11/8/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
2890	1,2-Dibromo-3-chloropropane	LW30S	0411047-04	11/8/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
2891	1,2-Dibromoethane	LW30S	0411047-04	11/8/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
2892	1,2-Dichlorobenzene	LW30S	0411047-04	11/8/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
2893	1,2-Dichloroethane	LW30S	0411047-04	11/8/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
2894	1,2-Dichloropropane	LW30S	0411047-04	11/8/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
2895	1,3-Dichlorobenzene	LW30S	0411047-04	11/8/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
2896	1,3-Dichloropropane	LW30S	0411047-04	11/8/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
2897	1,4-Dichlorobenzene	LW30S	0411047-04	11/8/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
2898	2,2-Dichloropropane	LW30S	0411047-04	11/8/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
2899	2-Chlorotoluene	LW30S	0411047-04	11/8/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
2900	2-Hexanone	LW30S	0411047-04	11/8/04	8260	2-Hexanone	#N/A	10	U	ug/L
2901	4-Chlorotoluene	LW30S	0411047-04	11/8/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
2902	4-Methyl-2-pentanone	LW30S	0411047-04	11/8/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
2903	Acrylonitrile	LW30S	0411047-04	11/8/04	8260	Acrylonitrile	#N/A	5	U	ug/L
2904	Bromobenzene	LW30S	0411047-04	11/8/04	8260	Bromobenzene	#N/A	1	U	ug/L
2905	Bromochloromethane	LW30S	0411047-04	11/8/04	8260	Bromochloromethane	#N/A	1	U	ug/L
2906	Bromodichloromethane	LW30S	0411047-04	11/8/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
2907	Bromomethane	LW30S	0411047-04	11/8/04	8260	Bromomethane	#N/A	1	U	ug/L
2908	Carbon tetrachloride	LW30S	0411047-04	11/8/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
2909	Chlorobenzene	LW30S	0411047-04	11/8/04	8260	Chlorobenzene	#N/A	1	U	ug/L
2910	Chloroethane	LW30S	0411047-04	11/8/04	8260	Chloroethane	#N/A	1	U	ug/L
2911	Chloroform	LW30S	0411047-04	11/8/04	8260	Chloroform	#N/A	1	U	ug/L
2912	Chloromethane	LW30S	0411047-04	11/8/04	8260	Chloromethane	#N/A	1	U	ug/L
2913	cis-1,2-Dichloroethene	LW30S	0411047-04	11/8/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
2914	cis-1,3-Dichloropropene	LW30S	0411047-04	11/8/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
2915	Dibromochloromethane	LW30S	0411047-04	11/8/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
2916	Dibromomethane	LW30S	0411047-04	11/8/04	8260	Dibromomethane	#N/A	1	U	ug/L
2917	Dichlorodifluoromethane	LW30S	0411047-04	11/8/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
2918	Hexachlorobutadiene	LW30S	0411047-04	11/8/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
2919	Methylene chloride	LW30S	0411047-04	11/8/04	8260	Methylene chloride	#N/A	20	U	ug/L
2920	Tetrachloroethene	LW30S	0411047-04	11/8/04	8260	Tetrachloroethene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
2921	trans-1,2-Dichloroethene	LW30S	0411047-04	11/8/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
2922	trans-1,3-Dichloropropene	LW30S	0411047-04	11/8/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
2923	Trichloroethene	LW30S	0411047-04	11/8/04	8260	Trichloroethene	#N/A	1	U	ug/L
2924	Trichlorofluoromethane	LW30S	0411047-04	11/8/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
2925	Vinyl chloride	LW30S	0411047-04	11/8/04	8260	Vinyl chloride	#N/A	1	U	ug/L
2926	1,2,4-Trichlorobenzene	LW30S	0411047-04	11/8/04	8270	1,2,4-Trichlorobenzene	#N/A	0.978	U	ug/L
2927	1,2-Dichlorobenzene	LW30S	0411047-04	11/8/04	8270	1,2-Dichlorobenzene	#N/A	0.978	U	ug/L
2928	1,3-Dichlorobenzene	LW30S	0411047-04	11/8/04	8270	1,3-Dichlorobenzene	#N/A	0.978	U	ug/L
2929	1,4-Dichlorobenzene	LW30S	0411047-04	11/8/04	8270	1,4-Dichlorobenzene	#N/A	0.978	U	ug/L
2930	2,4-Dichlorophenol	LW30S	0411047-04	11/8/04	8270	2,4-Dichlorophenol	#N/A	2.93	U	ug/L
2931	2,4-Dinitrophenol	LW30S	0411047-04	11/8/04	8270	2,4-Dinitrophenol	#N/A	9.78	U	ug/L
2932	2,4-Dinitrotoluene	LW30S	0411047-04	11/8/04	8270	2,4-Dinitrotoluene	#N/A	4.89	U	ug/L
2933	2,6-Dinitrotoluene	LW30S	0411047-04	11/8/04	8270	2,6-Dinitrotoluene	#N/A	4.89	U	ug/L
2934	2-Chloronaphthalene	LW30S	0411047-04	11/8/04	8270	2-Chloronaphthalene	#N/A	0.978	U	ug/L
2935	2-Chlorophenol	LW30S	0411047-04	11/8/04	8270	2-Chlorophenol	#N/A	0.978	U	ug/L
2936	2-Methylphenol	LW30S	0411047-04	11/8/04	8270	2-Methylphenol	#N/A	1.96	U	ug/L
2937	2-Nitroaniline	LW30S	0411047-04	11/8/04	8270	2-Nitroaniline	#N/A	4.89	U	ug/L
2938	2-Nitrophenol	LW30S	0411047-04	11/8/04	8270	2-Nitrophenol	#N/A	4.89	U	ug/L
2939	3,3'-Dichlorobenzidine	LW30S	0411047-04	11/8/04	8270	3,3'-Dichlorobenzidine	#N/A	4.89	U	ug/L
2940	3-Nitroaniline	LW30S	0411047-04	11/8/04	8270	3-Nitroaniline	#N/A	5.87	U	ug/L
2941	4,6-Dinitro-2-methylphenol	LW30S	0411047-04	11/8/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.78	U	ug/L
2942	4-Bromophenyl phenyl ether	LW30S	0411047-04	11/8/04	8270	4-Bromophenyl phenyl ether	#N/A	0.978	U	ug/L
2943	4-Chloro-3-methylphenol	LW30S	0411047-04	11/8/04	8270	4-Chloro-3-methylphenol	#N/A	1.96	U	ug/L
2944	4-Chloroaniline	LW30S	0411047-04	11/8/04	8270	4-Chloroaniline	#N/A	2.93	U	ug/L
2945	4-Chlorophenyl phenyl ether	LW30S	0411047-04	11/8/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.978	U	ug/L
2946	4-Nitroaniline	LW30S	0411047-04	11/8/04	8270	4-Nitroaniline	#N/A	4.89	U	ug/L
2947	4-Nitrophenol	LW30S	0411047-04	11/8/04	8270	4-Nitrophenol	#N/A	4.89	U	ug/L
2948	Benz(a)anthracene	LW30S	0411047-04	11/8/04	8270	Benz(a)anthracene	#N/A	0.978	U	ug/L
2949	Benzo(a)pyrene	LW30S	0411047-04	11/8/04	8270	Benzo(a)pyrene	#N/A	0.978	U	ug/L
2950	Benzo(b)fluoranthene	LW30S	0411047-04	11/8/04	8270	Benzo(b)fluoranthene	#N/A	0.978	U	ug/L
2951	Benzo(g,h,i)perylene	LW30S	0411047-04	11/8/04	8270	Benzo(g,h,i)perylene	#N/A	0.978	U	ug/L
2952	Benzo(k)fluoranthene	LW30S	0411047-04	11/8/04	8270	Benzo(k)fluoranthene	#N/A	0.978	U	ug/L
2953	Benzyl Alcohol	LW30S	0411047-04	11/8/04	8270	Benzyl Alcohol	#N/A	4.89	U	ug/L
2954	Bis(2-chloroethoxy)methane	LW30S	0411047-04	11/8/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.978	U	ug/L
2955	Bis(2-chloroethyl)ether	LW30S	0411047-04	11/8/04	8270	Bis(2-chloroethyl)ether	#N/A	1.96	U	ug/L
2956	Bis(2-chloroisopropyl)ether	LW30S	0411047-04	11/8/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.978	U	ug/L
2957	Butyl benzyl phthalate	LW30S	0411047-04	11/8/04	8270	Butyl benzyl phthalate	#N/A	0.978	U	ug/L
2958	Carbazole	LW30S	0411047-04	11/8/04	8270	Carbazole	#N/A	0.978	U	ug/L
2959	Chrysene	LW30S	0411047-04	11/8/04	8270	Chrysene	#N/A	0.978	U	ug/L
2960	Dibenz(a,h)anthracene	LW30S	0411047-04	11/8/04	8270	Dibenz(a,h)anthracene	#N/A	0.978	U	ug/L
2961	Diethyl phthalate	LW30S	0411047-04	11/8/04	8270	Diethyl phthalate	#N/A	0.978	U	ug/L
2962	Dimethyl phthalate	LW30S	0411047-04	11/8/04	8270	Dimethyl phthalate	#N/A	0.978	U	ug/L
2963	Di-n-butyl phthalate	LW30S	0411047-04	11/8/04	8270	Di-n-butyl phthalate	#N/A	0.978	U	ug/L
2964	Di-n-octyl phthalate	LW30S	0411047-04	11/8/04	8270	Di-n-octyl phthalate	#N/A	0.978	U	ug/L
2965	Fluoranthene	LW30S	0411047-04	11/8/04	8270	Fluoranthene	#N/A	0.978	U	ug/L
2966	Hexachlorobenzene	LW30S	0411047-04	11/8/04	8270	Hexachlorobenzene	#N/A	0.978	U	ug/L
2967	Hexachlorobutadiene	LW30S	0411047-04	11/8/04	8270	Hexachlorobutadiene	#N/A	1.96	U	ug/L
2968	Hexachlorocyclopentadiene	LW30S	0411047-04	11/8/04	8270	Hexachlorocyclopentadiene	#N/A	4.89	U	ug/L
2969	Hexachloroethane	LW30S	0411047-04	11/8/04	8270	Hexachloroethane	#N/A	1.96	U	ug/L
2970	Indeno(1,2,3-cd)pyrene	LW30S	0411047-04	11/8/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.978	U	ug/L
2971	Nitrobenzene	LW30S	0411047-04	11/8/04	8270	Nitrobenzene	#N/A	0.978	U	ug/L
2972	N-Nitrosodimethylamine	LW30S	0411047-04	11/8/04	8270	N-Nitrosodimethylamine	#N/A	0.978	U	ug/L
2973	N-Nitrosodi-n-propylamine	LW30S	0411047-04	11/8/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.96	U	ug/L
2974	N-Nitrosodiphenylamine	LW30S	0411047-04	11/8/04	8270	N-Nitrosodiphenylamine	#N/A	0.978	U	ug/L
2975	Phenanthrene	LW30S	0411047-04	11/8/04	8270	Phenanthrene	#N/A	0.978	U	ug/L
2976	Pyrene	LW30S	0411047-04	11/8/04	8270	Pyrene	#N/A	0.978	U	ug/L
2977	Pyridine	LW30S	0411047-04	11/8/04	8270	Pyridine	#N/A	4.89	U	ug/L
2978	Benz(a)anthracene	LW30S	0411047-04	11/8/04	8270SIM	Benz(a)anthracene	#N/A	0.0481	U	ug/L
2979	Benzo(a)pyrene	LW30S	0411047-04	11/8/04	8270SIM	Benzo(a)pyrene	#N/A	0.0481	U	ug/L
2980	Benzo(b)fluoranthene	LW30S	0411047-04	11/8/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0481	U	ug/L
2981	Benzo(g,h,i)perylene	LW30S	0411047-04	11/8/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0481	U	ug/L
2982	Benzo(k)fluoranthene	LW30S	0411047-04	11/8/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0481	U	ug/L
2983	Chrysene	LW30S	0411047-04	11/8/04	8270SIM	Chrysene	#N/A	0.0481	U	ug/L
2984	Dibenz(a,h)anthracene	LW30S	0411047-04	11/8/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0481	U	ug/L
2985	Fluoranthene	LW30S	0411047-04	11/8/04	8270SIM	Fluoranthene	#N/A	0.0481	U	ug/L
2986	Indeno(1,2,3-cd)pyrene	LW30S	0411047-04	11/8/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0481	U	ug/L
2987	Phenanthrene	LW30S	0411047-04	11/8/04	8270SIM	Phenanthrene	#N/A	**0.78**		ug/L
2988	Pyrene	LW30S	0411047-04	11/8/04	8270SIM	Pyrene	#N/A	0.0481	U	ug/L
2989	Turbidity	LW30S	0411047-04	11/8/04	FIELD	Turbidity	#N/A	0		ntu
2990	Pentachlorophenol	LW31S	0411052-02	11/9/04	8270	Pentachlorophenol	3	4.93	U	ug/L
2991	Phenol	LW31S	0411052-02	11/9/04	8270	Phenol	13	1.97	U	ug/L
2992	3-&4-Methylphenol	LW31S	0411052-02	11/9/04	8270	3-&4-Methylphenol	14	9.85	U	ug/L
2993	Isophorone	LW31S	0411052-02	11/9/04	8270	Isophorone	15	0.985	U	ug/L

	A	B	C	D	E	F	G	H	I	J
2994	2,4-Dimethylphenol	LW31S	0411052-02	11/9/04	8270	2,4-Dimethylphenol	16	2.96	U	ug/L
2995	Benzoic Acid	LW31S	0411052-02	11/9/04	8270	Benzoic Acid	17	19.7	U	ug/L
2996	Naphthalene	LW31S	0411052-02	11/9/04	8270	Naphthalene	18	0.985	U	ug/L
2997	2-Methylnaphthalene	LW31S	0411052-02	11/9/04	8270	2-Methylnaphthalene	19	0.985	U	ug/L
2998	2,4,6-Trichlorophenol	LW31S	0411052-02	11/9/04	8270	2,4,6-Trichlorophenol	20	4.93	U	ug/L
2999	2,4,5-Trichlorophenol	LW31S	0411052-02	11/9/04	8270	2,4,5-Trichlorophenol	21	4.93	U	ug/L
3000	Acenaphthene	LW31S	0411052-02	11/9/04	8270	Acenaphthene	22	0.985	U	ug/L
3001	Dibenzofuran	LW31S	0411052-02	11/9/04	8270	Dibenzofuran	23	0.985	U	ug/L
3002	Fluorene	LW31S	0411052-02	11/9/04	8270	Fluorene	24	0.985	U	ug/L
3003	Bis(2-ethylhexyl)phthalate	LW31S	0411052-02	11/9/04	8270	Bis(2-ethylhexyl)phthalate	26	0.985	U	ug/L
3004	Acetone	LW31S	0411052-02	11/9/04	8260	Acetone	30	50	U	ug/L
3005	Carbon disulfide	LW31S	0411052-02	11/9/04	8260	Carbon disulfide	31	2	U	ug/L
3006	2-Butanone	LW31S	0411052-02	11/9/04	8260	2-Butanone	32	10	U	ug/L
3007	Benzene	LW31S	0411052-02	11/9/04	8260	Benzene	33	0.3	U	ug/L
3008	Bromoform	LW31S	0411052-02	11/9/04	8260	Bromoform	34	1	U	ug/L
3009	Toluene	LW31S	0411052-02	11/9/04	8260	Toluene	35	1	U	ug/L
3010	Ethylbenzene	LW31S	0411052-02	11/9/04	8260	Ethylbenzene	36	1	U	ug/L
3011	Styrene	LW31S	0411052-02	11/9/04	8260	Styrene	37	1	U	ug/L
3012	m,p-Xylene	LW31S	0411052-02	11/9/04	8260	m,p-Xylene	38	2	U	ug/L
3013	o-Xylene	LW31S	0411052-02	11/9/04	8260	o-Xylene	39	1	U	ug/L
3014	1,3,5-Trimethylbenzene	LW31S	0411052-02	11/9/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
3015	1,2,4-Trimethylbenzene	LW31S	0411052-02	11/9/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
3016	Isopropylbenzene	LW31S	0411052-02	11/9/04	8260	Isopropylbenzene	42	1	U	ug/L
3017	n-Propylbenzene	LW31S	0411052-02	11/9/04	8260	n-Propylbenzene	43	1	U	ug/L
3018	tert-Butylbenzene	LW31S	0411052-02	11/9/04	8260	tert-Butylbenzene	44	1	U	ug/L
3019	sec-Butylbenzene	LW31S	0411052-02	11/9/04	8260	sec-Butylbenzene	45	1	U	ug/L
3020	4-Isopropyltoluene	LW31S	0411052-02	11/9/04	8260	4-Isopropyltoluene	46	1	U	ug/L
3021	n-Butylbenzene	LW31S	0411052-02	11/9/04	8260	n-Butylbenzene	47	1	U	ug/L
3022	Naphthalene	LW31S	0411052-02	11/9/04	8260	Naphthalene	48	1	U	ug/L
3023	Methyl tert-butyl ether	LW31S	0411052-02	11/9/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
3024	Diesel Range Hydrocarbons	LW31S	0411052-02	11/9/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.568**		mg/L
3025	Lube Oil	LW31S	0411052-02	11/9/04	NWTPH-Dx	Lube Oil	54	**0.593**		mg/L
3026	Gasoline Range Hydrocarbons	LW31S	0411052-02	11/9/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	0.1	U	ug/L
3027	Arsenic	LW31S	0411052-02	11/9/04	6020	Arsenic	59	**0.00136**		ug/L
3028	Chromium	LW31S	0411052-02	11/9/04	6010	Chromium	60	**0.0182**		mg/L
3029	Copper	LW31S	0411052-02	11/9/04	6010	Copper	61	0.01	U	mg/L
3030	Lead	LW31S	0411052-02	11/9/04	6020	Lead	62	**0.00018**		ug/L
3031	Nickel	LW31S	0411052-02	11/9/04	6010	Nickel	63	0.005	U	mg/L
3032	Zinc	LW31S	0411052-02	11/9/04	6010	Zinc	64	0.01	U	mg/L
3033	Total Dissolved Solids	LW31S	0411052-02	11/9/04	1601	Total Dissolved Solids	74	**160**		mg/L
3034	Chloride	LW31S	0411052-02	11/9/04	9056	Chloride	75	**1.82**		mg/L
3035	pH	LW31S	0411052-02	11/9/04	FIELD	pH	82	6.38		s.u.
3036	Temperature	LW31S	0411052-02	11/9/04	FIELD	Temperature	83	14.3		c
3037	Conductivity	LW31S	0411052-02	11/9/04	FIELD	Conductivity	84	161		us
3038	Dissolved oxygen	LW31S	0411052-02	11/9/04	FIELD	Dissolved oxygen	85	1.98		mg/l
3039	Naphthalene	LW31S	0411052-02	11/9/04	8270SIM	Naphthalene	119	0.0521	U	ug/L
3040	Acenaphthylene	LW31S	0411052-02	11/9/04	8270SIM	Acenaphthylene	121	0.0521	U	ug/L
3041	Acenaphthene	LW31S	0411052-02	11/9/04	8270SIM	Acenaphthene	122	0.0521	U	ug/L
3042	Fluorene	LW31S	0411052-02	11/9/04	8270SIM	Fluorene	123	0.0521	U	ug/L
3043	Anthracene	LW31S	0411052-02	11/9/04	8270SIM	Anthracene	124	0.0521	U	ug/L
3044	1,1,1,2-Tetrachloroethane	LW31S	0411052-02	11/9/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
3045	1,1,1-Trichloroethane	LW31S	0411052-02	11/9/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
3046	1,1,2,2-Tetrachloroethane	LW31S	0411052-02	11/9/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
3047	1,1,2-Trichloroethane	LW31S	0411052-02	11/9/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
3048	1,1-Dichloroethane	LW31S	0411052-02	11/9/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
3049	1,1-Dichloroethene	LW31S	0411052-02	11/9/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
3050	1,1-Dichloropropene	LW31S	0411052-02	11/9/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
3051	1,2,3-Trichlorobenzene	LW31S	0411052-02	11/9/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
3052	1,2,3-Trichloropropane	LW31S	0411052-02	11/9/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
3053	1,2,4-Trichlorobenzene	LW31S	0411052-02	11/9/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
3054	1,2-Dibromo-3-chloropropane	LW31S	0411052-02	11/9/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
3055	1,2-Dibromoethane	LW31S	0411052-02	11/9/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
3056	1,2-Dichlorobenzene	LW31S	0411052-02	11/9/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
3057	1,2-Dichloroethane	LW31S	0411052-02	11/9/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
3058	1,2-Dichloropropane	LW31S	0411052-02	11/9/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
3059	1,3-Dichlorobenzene	LW31S	0411052-02	11/9/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
3060	1,3-Dichloropropane	LW31S	0411052-02	11/9/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
3061	1,4-Dichlorobenzene	LW31S	0411052-02	11/9/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
3062	2,2-Dichloropropane	LW31S	0411052-02	11/9/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
3063	2-Chlorotoluene	LW31S	0411052-02	11/9/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
3064	2-Hexanone	LW31S	0411052-02	11/9/04	8260	2-Hexanone	#N/A	10	U	ug/L
3065	4-Chlorotoluene	LW31S	0411052-02	11/9/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
3066	4-Methyl-2-pentanone	LW31S	0411052-02	11/9/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L

	A	B	C	D	E	F	G	H	I	J
3067	Acrylonitrile	LW31S	0411052-02	11/9/04	8260	Acrylonitrile	#N/A	5	U	ug/L
3068	Bromobenzene	LW31S	0411052-02	11/9/04	8260	Bromobenzene	#N/A	1	U	ug/L
3069	Bromochloromethane	LW31S	0411052-02	11/9/04	8260	Bromochloromethane	#N/A	1	U	ug/L
3070	Bromodichloromethane	LW31S	0411052-02	11/9/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
3071	Bromomethane	LW31S	0411052-02	11/9/04	8260	Bromomethane	#N/A	1	U	ug/L
3072	Carbon tetrachloride	LW31S	0411052-02	11/9/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
3073	Chlorobenzene	LW31S	0411052-02	11/9/04	8260	Chlorobenzene	#N/A	1	U	ug/L
3074	Chloroethane	LW31S	0411052-02	11/9/04	8260	Chloroethane	#N/A	1	U	ug/L
3075	Chloroform	LW31S	0411052-02	11/9/04	8260	Chloroform	#N/A	1	U	ug/L
3076	Chloromethane	LW31S	0411052-02	11/9/04	8260	Chloromethane	#N/A	1	U	ug/L
3077	cis-1,2-Dichloroethene	LW31S	0411052-02	11/9/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
3078	cis-1,3-Dichloropropene	LW31S	0411052-02	11/9/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
3079	Dibromochloromethane	LW31S	0411052-02	11/9/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
3080	Dibromomethane	LW31S	0411052-02	11/9/04	8260	Dibromomethane	#N/A	1	U	ug/L
3081	Dichlorodifluoromethane	LW31S	0411052-02	11/9/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
3082	Hexachlorobutadiene	LW31S	0411052-02	11/9/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
3083	Methylene chloride	LW31S	0411052-02	11/9/04	8260	Methylene chloride	#N/A	20	U	ug/L
3084	Tetrachloroethene	LW31S	0411052-02	11/9/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
3085	trans-1,2-Dichloroethene	LW31S	0411052-02	11/9/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
3086	trans-1,3-Dichloropropene	LW31S	0411052-02	11/9/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
3087	Trichloroethene	LW31S	0411052-02	11/9/04	8260	Trichloroethene	#N/A	1	U	ug/L
3088	Trichlorofluoromethane	LW31S	0411052-02	11/9/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
3089	Vinyl chloride	LW31S	0411052-02	11/9/04	8260	Vinyl chloride	#N/A	1	U	ug/L
3090	1,2,4-Trichlorobenzene	LW31S	0411052-02	11/9/04	8270	1,2,4-Trichlorobenzene	#N/A	0.985	U	ug/L
3091	1,2-Dichlorobenzene	LW31S	0411052-02	11/9/04	8270	1,2-Dichlorobenzene	#N/A	0.985	U	ug/L
3092	1,3-Dichlorobenzene	LW31S	0411052-02	11/9/04	8270	1,3-Dichlorobenzene	#N/A	0.985	U	ug/L
3093	1,4-Dichlorobenzene	LW31S	0411052-02	11/9/04	8270	1,4-Dichlorobenzene	#N/A	0.985	U	ug/L
3094	2,4-Dichlorophenol	LW31S	0411052-02	11/9/04	8270	2,4-Dichlorophenol	#N/A	2.96	U	ug/L
3095	2,4-Dinitrophenol	LW31S	0411052-02	11/9/04	8270	2,4-Dinitrophenol	#N/A	9.85	U	ug/L
3096	2,4-Dinitrotoluene	LW31S	0411052-02	11/9/04	8270	2,4-Dinitrotoluene	#N/A	4.93	U	ug/L
3097	2,6-Dinitrotoluene	LW31S	0411052-02	11/9/04	8270	2,6-Dinitrotoluene	#N/A	4.93	U	ug/L
3098	2-Chloronaphthalene	LW31S	0411052-02	11/9/04	8270	2-Chloronaphthalene	#N/A	0.985	U	ug/L
3099	2-Chlorophenol	LW31S	0411052-02	11/9/04	8270	2-Chlorophenol	#N/A	0.985	U	ug/L
3100	2-Methylphenol	LW31S	0411052-02	11/9/04	8270	2-Methylphenol	#N/A	1.97	U	ug/L
3101	2-Nitroaniline	LW31S	0411052-02	11/9/04	8270	2-Nitroaniline	#N/A	4.93	U	ug/L
3102	2-Nitrophenol	LW31S	0411052-02	11/9/04	8270	2-Nitrophenol	#N/A	4.93	U	ug/L
3103	3,3'-Dichlorobenzidine	LW31S	0411052-02	11/9/04	8270	3,3'-Dichlorobenzidine	#N/A	4.93	U	ug/L
3104	3-Nitroaniline	LW31S	0411052-02	11/9/04	8270	3-Nitroaniline	#N/A	5.91	U	ug/L
3105	4,6-Dinitro-2-methylphenol	LW31S	0411052-02	11/9/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.85	U	ug/L
3106	4-Bromophenyl phenyl ether	LW31S	0411052-02	11/9/04	8270	4-Bromophenyl phenyl ether	#N/A	0.985	U	ug/L
3107	4-Chloro-3-methylphenol	LW31S	0411052-02	11/9/04	8270	4-Chloro-3-methylphenol	#N/A	1.97	U	ug/L
3108	4-Chloroaniline	LW31S	0411052-02	11/9/04	8270	4-Chloroaniline	#N/A	2.96	U	ug/L
3109	4-Chlorophenyl phenyl ether	LW31S	0411052-02	11/9/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.985	U	ug/L
3110	4-Nitroaniline	LW31S	0411052-02	11/9/04	8270	4-Nitroaniline	#N/A	4.93	U	ug/L
3111	4-Nitrophenol	LW31S	0411052-02	11/9/04	8270	4-Nitrophenol	#N/A	4.93	U	ug/L
3112	Benz(a)anthracene	LW31S	0411052-02	11/9/04	8270	Benz(a)anthracene	#N/A	0.985	U	ug/L
3113	Benzo(a)pyrene	LW31S	0411052-02	11/9/04	8270	Benzo(a)pyrene	#N/A	0.985	U	ug/L
3114	Benzo(b)fluoranthene	LW31S	0411052-02	11/9/04	8270	Benzo(b)fluoranthene	#N/A	0.985	U	ug/L
3115	Benzo(g,h,i)perylene	LW31S	0411052-02	11/9/04	8270	Benzo(g,h,i)perylene	#N/A	0.985	U	ug/L
3116	Benzo(k)fluoranthene	LW31S	0411052-02	11/9/04	8270	Benzo(k)fluoranthene	#N/A	0.985	U	ug/L
3117	Benzyl Alcohol	LW31S	0411052-02	11/9/04	8270	Benzyl Alcohol	#N/A	4.93	U	ug/L
3118	Bis(2-chloroethoxy)methane	LW31S	0411052-02	11/9/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.985	U	ug/L
3119	Bis(2-chloroethyl)ether	LW31S	0411052-02	11/9/04	8270	Bis(2-chloroethyl)ether	#N/A	1.97	U	ug/L
3120	Bis(2-chloroisopropyl)ether	LW31S	0411052-02	11/9/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.985	U	ug/L
3121	Butyl benzyl phthalate	LW31S	0411052-02	11/9/04	8270	Butyl benzyl phthalate	#N/A	0.985	U	ug/L
3122	Carbazole	LW31S	0411052-02	11/9/04	8270	Carbazole	#N/A	0.985	U	ug/L
3123	Chrysene	LW31S	0411052-02	11/9/04	8270	Chrysene	#N/A	0.985	U	ug/L
3124	Dibenz(a,h)anthracene	LW31S	0411052-02	11/9/04	8270	Dibenz(a,h)anthracene	#N/A	0.985	U	ug/L
3125	Diethyl phthalate	LW31S	0411052-02	11/9/04	8270	Diethyl phthalate	#N/A	0.985	U	ug/L
3126	Dimethyl phthalate	LW31S	0411052-02	11/9/04	8270	Dimethyl phthalate	#N/A	0.985	U	ug/L
3127	Di-n-butyl phthalate	LW31S	0411052-02	11/9/04	8270	Di-n-butyl phthalate	#N/A	0.985	U	ug/L
3128	Di-n-octyl phthalate	LW31S	0411052-02	11/9/04	8270	Di-n-octyl phthalate	#N/A	0.985	U	ug/L
3129	Fluoranthene	LW31S	0411052-02	11/9/04	8270	Fluoranthene	#N/A	0.985	U	ug/L
3130	Hexachlorobenzene	LW31S	0411052-02	11/9/04	8270	Hexachlorobenzene	#N/A	0.985	U	ug/L
3131	Hexachlorobutadiene	LW31S	0411052-02	11/9/04	8270	Hexachlorobutadiene	#N/A	1.97	U	ug/L
3132	Hexachlorocyclopentadiene	LW31S	0411052-02	11/9/04	8270	Hexachlorocyclopentadiene	#N/A	4.93	U	ug/L
3133	Hexachloroethane	LW31S	0411052-02	11/9/04	8270	Hexachloroethane	#N/A	1.97	U	ug/L
3134	Indeno(1,2,3-cd)pyrene	LW31S	0411052-02	11/9/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.985	U	ug/L
3135	Nitrobenzene	LW31S	0411052-02	11/9/04	8270	Nitrobenzene	#N/A	0.985	U	ug/L
3136	N-Nitrosodimethylamine	LW31S	0411052-02	11/9/04	8270	N-Nitrosodimethylamine	#N/A	0.985	U	ug/L
3137	N-Nitrosodi-n-propylamine	LW31S	0411052-02	11/9/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.97	U	ug/L
3138	N-Nitrosodiphenylamine	LW31S	0411052-02	11/9/04	8270	N-Nitrosodiphenylamine	#N/A	0.985	U	ug/L
3139	Phenanthrene	LW31S	0411052-02	11/9/04	8270	Phenanthrene	#N/A	0.985	U	ug/L

	A	B	C	D	E	F	G	H	I	J
3140	Pyrene	LW31S	0411052-02	11/9/04	8270	Pyrene	#N/A	0.985	U	ug/L
3141	Pyridine	LW31S	0411052-02	11/9/04	8270	Pyridine	#N/A	4.93	U	ug/L
3142	Benz(a)anthracene	LW31S	0411052-02	11/9/04	8270SIM	Benz(a)anthracene	#N/A	0.0521	U	ug/L
3143	Benzo(a)pyrene	LW31S	0411052-02	11/9/04	8270SIM	Benzo(a)pyrene	#N/A	0.0521	U	ug/L
3144	Benzo(b)fluoranthene	LW31S	0411052-02	11/9/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0521	U	ug/L
3145	Benzo(g,h,i)perylene	LW31S	0411052-02	11/9/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0521	U	ug/L
3146	Benzo(k)fluoranthene	LW31S	0411052-02	11/9/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0521	U	ug/L
3147	Chrysene	LW31S	0411052-02	11/9/04	8270SIM	Chrysene	#N/A	0.0521	U	ug/L
3148	Dibenz(a,h)anthracene	LW31S	0411052-02	11/9/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0521	U	ug/L
3149	Fluoranthene	LW31S	0411052-02	11/9/04	8270SIM	Fluoranthene	#N/A	0.0521	U	ug/L
3150	Indeno(1,2,3-cd)pyrene	LW31S	0411052-02	11/9/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0521	U	ug/L
3151	Phenanthrene	LW31S	0411052-02	11/9/04	8270SIM	Phenanthrene	#N/A	0.0521	U	ug/L
3152	Pyrene	LW31S	0411052-02	11/9/04	8270SIM	Pyrene	#N/A	0.0521	U	ug/L
3153	Turbidity	LW31S	0411052-02	11/9/04	FIELD	Turbidity	#N/A	0		ntu
3154	Pentachlorophenol	LW32D	0411052-04	11/9/04	8270	Pentachlorophenol	3	4.89	U	ug/L
3155	Phenol	LW32D	0411052-04	11/9/04	8270	Phenol	13	1.96	U	ug/L
3156	3-&4-Methylphenol	LW32D	0411052-04	11/9/04	8270	3-&4-Methylphenol	14	9.78	U	ug/L
3157	Isophorone	LW32D	0411052-04	11/9/04	8270	Isophorone	15	0.978	U	ug/L
3158	2,4-Dimethylphenol	LW32D	0411052-04	11/9/04	8270	2,4-Dimethylphenol	16	2.93	U	ug/L
3159	Benzoic Acid	LW32D	0411052-04	11/9/04	8270	Benzoic Acid	17	19.6	U	ug/L
3160	Naphthalene	LW32D	0411052-04	11/9/04	8270	Naphthalene	18	0.978	U	ug/L
3161	2-Methylnaphthalene	LW32D	0411052-04	11/9/04	8270	2-Methylnaphthalene	19	0.978	U	ug/L
3162	2,4,6-Trichlorophenol	LW32D	0411052-04	11/9/04	8270	2,4,6-Trichlorophenol	20	4.89	U	ug/L
3163	2,4,5-Trichlorophenol	LW32D	0411052-04	11/9/04	8270	2,4,5-Trichlorophenol	21	4.89	U	ug/L
3164	Acenaphthene	LW32D	0411052-04	11/9/04	8270	Acenaphthene	22	0.978	U	ug/L
3165	Dibenzofuran	LW32D	0411052-04	11/9/04	8270	Dibenzofuran	23	0.978	U	ug/L
3166	Fluorene	LW32D	0411052-04	11/9/04	8270	Fluorene	24	0.978	U	ug/L
3167	Bis(2-ethylhexyl)phthalate	LW32D	0411052-04	11/9/04	8270	Bis(2-ethylhexyl)phthalate	26	**1.05**		ug/L
3168	Acetone	LW32D	0411052-04	11/9/04	8260	Acetone	30	50	U	ug/L
3169	Carbon disulfide	LW32D	0411052-04	11/9/04	8260	Carbon disulfide	31	2	U	ug/L
3170	2-Butanone	LW32D	0411052-04	11/9/04	8260	2-Butanone	32	10	U	ug/L
3171	Benzene	LW32D	0411052-04	11/9/04	8260	Benzene	33	0.3	U	ug/L
3172	Bromoform	LW32D	0411052-04	11/9/04	8260	Bromoform	34	1	U	ug/L
3173	Toluene	LW32D	0411052-04	11/9/04	8260	Toluene	35	1	U	ug/L
3174	Ethylbenzene	LW32D	0411052-04	11/9/04	8260	Ethylbenzene	36	1	U	ug/L
3175	Styrene	LW32D	0411052-04	11/9/04	8260	Styrene	37	1	U	ug/L
3176	m,p-Xylene	LW32D	0411052-04	11/9/04	8260	m,p-Xylene	38	2	U	ug/L
3177	o-Xylene	LW32D	0411052-04	11/9/04	8260	o-Xylene	39	1	U	ug/L
3178	1,3,5-Trimethylbenzene	LW32D	0411052-04	11/9/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
3179	1,2,4-Trimethylbenzene	LW32D	0411052-04	11/9/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
3180	Isopropylbenzene	LW32D	0411052-04	11/9/04	8260	Isopropylbenzene	42	1	U	ug/L
3181	n-Propylbenzene	LW32D	0411052-04	11/9/04	8260	n-Propylbenzene	43	1	U	ug/L
3182	tert-Butylbenzene	LW32D	0411052-04	11/9/04	8260	tert-Butylbenzene	44	1	U	ug/L
3183	sec-Butylbenzene	LW32D	0411052-04	11/9/04	8260	sec-Butylbenzene	45	1	U	ug/L
3184	4-Isopropyltoluene	LW32D	0411052-04	11/9/04	8260	4-Isopropyltoluene	46	1	U	ug/L
3185	n-Butylbenzene	LW32D	0411052-04	11/9/04	8260	n-Butylbenzene	47	1	U	ug/L
3186	Naphthalene	LW32D	0411052-04	11/9/04	8260	Naphthalene	48	1	U	ug/L
3187	Methyl tert-butyl ether	LW32D	0411052-04	11/9/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
3188	Diesel Range Hydrocarbons	LW32D	0411052-04	11/9/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.6**		mg/L
3189	Lube Oil	LW32D	0411052-04	11/9/04	NWTPH-Dx	Lube Oil	54	**0.501**		mg/L
3190	Gasoline Range Hydrocarbons	LW32D	0411052-04	11/9/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**0.105**		ug/L
3191	Arsenic	LW32D	0411052-04	11/9/04	6020	Arsenic	59	**0.0104**		ug/L
3192	Chromium	LW32D	0411052-04	11/9/04	6010	Chromium	60	**0.0446**		mg/L
3193	Copper	LW32D	0411052-04	11/9/04	6010	Copper	61	**0.0305**		mg/L
3194	Lead	LW32D	0411052-04	11/9/04	6020	Lead	62	**0.00582**		ug/L
3195	Nickel	LW32D	0411052-04	11/9/04	6010	Nickel	63	**0.013**		mg/L
3196	Zinc	LW32D	0411052-04	11/9/04	6010	Zinc	64	**0.0734**		mg/L
3197	Total Dissolved Solids	LW32D	0411052-04	11/9/04	1601	Total Dissolved Solids	74	**345**		mg/L
3198	Chloride	LW32D	0411052-04	11/9/04	9056	Chloride	75	**3.18**		mg/L
3199	pH	LW32D	0411052-04	11/9/04	FIELD	pH	82	6.91		s.u.
3200	Temperature	LW32D	0411052-04	11/9/04	FIELD	Temperature	83	13.5		c
3201	Conductivity	LW32D	0411052-04	11/9/04	FIELD	Conductivity	84	467		us
3202	Dissolved oxygen	LW32D	0411052-04	11/9/04	FIELD	Dissolved oxygen	85	1.76		mg/l
3203	Naphthalene	LW32D	0411052-04	11/9/04	8270SIM	Naphthalene	119	0.0498	U	ug/L
3204	Acenaphthylene	LW32D	0411052-04	11/9/04	8270SIM	Acenaphthylene	121	0.0498	U	ug/L
3205	Acenaphthene	LW32D	0411052-04	11/9/04	8270SIM	Acenaphthene	122	0.0498	U	ug/L
3206	Fluorene	LW32D	0411052-04	11/9/04	8270SIM	Fluorene	123	0.0498	U	ug/L
3207	Anthracene	LW32D	0411052-04	11/9/04	8270SIM	Anthracene	124	0.0498	U	ug/L
3208	1,1,1,2-Tetrachloroethane	LW32D	0411052-04	11/9/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
3209	1,1,1-Trichloroethane	LW32D	0411052-04	11/9/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
3210	1,1,2,2-Tetrachloroethane	LW32D	0411052-04	11/9/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
3211	1,1,2-Trichloroethane	LW32D	0411052-04	11/9/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
3212	1,1-Dichloroethane	LW32D	0411052-04	11/9/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
3213	1,1-Dichloroethene	LW32D	0411052-04	11/9/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
3214	1,1-Dichloropropene	LW32D	0411052-04	11/9/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
3215	1,2,3-Trichlorobenzene	LW32D	0411052-04	11/9/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
3216	1,2,3-Trichloropropane	LW32D	0411052-04	11/9/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
3217	1,2,4-Trichlorobenzene	LW32D	0411052-04	11/9/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
3218	1,2-Dibromo-3-chloropropane	LW32D	0411052-04	11/9/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
3219	1,2-Dibromoethane	LW32D	0411052-04	11/9/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
3220	1,2-Dichlorobenzene	LW32D	0411052-04	11/9/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
3221	1,2-Dichloroethane	LW32D	0411052-04	11/9/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
3222	1,2-Dichloropropane	LW32D	0411052-04	11/9/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
3223	1,3-Dichlorobenzene	LW32D	0411052-04	11/9/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
3224	1,3-Dichloropropane	LW32D	0411052-04	11/9/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
3225	1,4-Dichlorobenzene	LW32D	0411052-04	11/9/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
3226	2,2-Dichloropropane	LW32D	0411052-04	11/9/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
3227	2-Chlorotoluene	LW32D	0411052-04	11/9/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
3228	2-Hexanone	LW32D	0411052-04	11/9/04	8260	2-Hexanone	#N/A	10	U	ug/L
3229	4-Chlorotoluene	LW32D	0411052-04	11/9/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
3230	4-Methyl-2-pentanone	LW32D	0411052-04	11/9/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
3231	Acrylonitrile	LW32D	0411052-04	11/9/04	8260	Acrylonitrile	#N/A	5	U	ug/L
3232	Bromobenzene	LW32D	0411052-04	11/9/04	8260	Bromobenzene	#N/A	1	U	ug/L
3233	Bromochloromethane	LW32D	0411052-04	11/9/04	8260	Bromochloromethane	#N/A	1	U	ug/L
3234	Bromodichloromethane	LW32D	0411052-04	11/9/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
3235	Bromomethane	LW32D	0411052-04	11/9/04	8260	Bromomethane	#N/A	1	U	ug/L
3236	Carbon tetrachloride	LW32D	0411052-04	11/9/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
3237	Chlorobenzene	LW32D	0411052-04	11/9/04	8260	Chlorobenzene	#N/A	1	U	ug/L
3238	Chloroethane	LW32D	0411052-04	11/9/04	8260	Chloroethane	#N/A	1	U	ug/L
3239	Chloroform	LW32D	0411052-04	11/9/04	8260	Chloroform	#N/A	1	U	ug/L
3240	Chloromethane	LW32D	0411052-04	11/9/04	8260	Chloromethane	#N/A	1	U	ug/L
3241	cis-1,2-Dichloroethene	LW32D	0411052-04	11/9/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
3242	cis-1,3-Dichloropropene	LW32D	0411052-04	11/9/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
3243	Dibromochloromethane	LW32D	0411052-04	11/9/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
3244	Dibromomethane	LW32D	0411052-04	11/9/04	8260	Dibromomethane	#N/A	1	U	ug/L
3245	Dichlorodifluoromethane	LW32D	0411052-04	11/9/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
3246	Hexachlorobutadiene	LW32D	0411052-04	11/9/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
3247	Methylene chloride	LW32D	0411052-04	11/9/04	8260	Methylene chloride	#N/A	20	U	ug/L
3248	Tetrachloroethene	LW32D	0411052-04	11/9/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
3249	trans-1,2-Dichloroethene	LW32D	0411052-04	11/9/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
3250	trans-1,3-Dichloropropene	LW32D	0411052-04	11/9/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
3251	Trichloroethene	LW32D	0411052-04	11/9/04	8260	Trichloroethene	#N/A	1	U	ug/L
3252	Trichlorofluoromethane	LW32D	0411052-04	11/9/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
3253	Vinyl chloride	LW32D	0411052-04	11/9/04	8260	Vinyl chloride	#N/A	1	U	ug/L
3254	1,2,4-Trichlorobenzene	LW32D	0411052-04	11/9/04	8270	1,2,4-Trichlorobenzene	#N/A	0.978	U	ug/L
3255	1,2-Dichlorobenzene	LW32D	0411052-04	11/9/04	8270	1,2-Dichlorobenzene	#N/A	0.978	U	ug/L
3256	1,3-Dichlorobenzene	LW32D	0411052-04	11/9/04	8270	1,3-Dichlorobenzene	#N/A	0.978	U	ug/L
3257	1,4-Dichlorobenzene	LW32D	0411052-04	11/9/04	8270	1,4-Dichlorobenzene	#N/A	0.978	U	ug/L
3258	2,4-Dichlorophenol	LW32D	0411052-04	11/9/04	8270	2,4-Dichlorophenol	#N/A	2.93	U	ug/L
3259	2,4-Dinitrophenol	LW32D	0411052-04	11/9/04	8270	2,4-Dinitrophenol	#N/A	9.78	U	ug/L
3260	2,4-Dinitrotoluene	LW32D	0411052-04	11/9/04	8270	2,4-Dinitrotoluene	#N/A	4.89	U	ug/L
3261	2,6-Dinitrotoluene	LW32D	0411052-04	11/9/04	8270	2,6-Dinitrotoluene	#N/A	4.89	U	ug/L
3262	2-Chloronaphthalene	LW32D	0411052-04	11/9/04	8270	2-Chloronaphthalene	#N/A	0.978	U	ug/L
3263	2-Chlorophenol	LW32D	0411052-04	11/9/04	8270	2-Chlorophenol	#N/A	0.978	U	ug/L
3264	2-Methylphenol	LW32D	0411052-04	11/9/04	8270	2-Methylphenol	#N/A	1.96	U	ug/L
3265	2-Nitroaniline	LW32D	0411052-04	11/9/04	8270	2-Nitroaniline	#N/A	4.89	U	ug/L
3266	2-Nitrophenol	LW32D	0411052-04	11/9/04	8270	2-Nitrophenol	#N/A	4.89	U	ug/L
3267	3,3'-Dichlorobenzidine	LW32D	0411052-04	11/9/04	8270	3,3'-Dichlorobenzidine	#N/A	4.89	U	ug/L
3268	3-Nitroaniline	LW32D	0411052-04	11/9/04	8270	3-Nitroaniline	#N/A	5.87	U	ug/L
3269	4,6-Dinitro-2-methylphenol	LW32D	0411052-04	11/9/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.78	U	ug/L
3270	4-Bromophenyl phenyl ether	LW32D	0411052-04	11/9/04	8270	4-Bromophenyl phenyl ether	#N/A	0.978	U	ug/L
3271	4-Chloro-3-methylphenol	LW32D	0411052-04	11/9/04	8270	4-Chloro-3-methylphenol	#N/A	1.96	U	ug/L
3272	4-Chloroaniline	LW32D	0411052-04	11/9/04	8270	4-Chloroaniline	#N/A	2.93	U	ug/L
3273	4-Chlorophenyl phenyl ether	LW32D	0411052-04	11/9/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.978	U	ug/L
3274	4-Nitroaniline	LW32D	0411052-04	11/9/04	8270	4-Nitroaniline	#N/A	4.89	U	ug/L
3275	4-Nitrophenol	LW32D	0411052-04	11/9/04	8270	4-Nitrophenol	#N/A	4.89	U	ug/L
3276	Benz(a)anthracene	LW32D	0411052-04	11/9/04	8270	Benz(a)anthracene	#N/A	0.978	U	ug/L
3277	Benzo(a)pyrene	LW32D	0411052-04	11/9/04	8270	Benzo(a)pyrene	#N/A	0.978	U	ug/L
3278	Benzo(b)fluoranthene	LW32D	0411052-04	11/9/04	8270	Benzo(b)fluoranthene	#N/A	0.978	U	ug/L
3279	Benzo(g,h,i)perylene	LW32D	0411052-04	11/9/04	8270	Benzo(g,h,i)perylene	#N/A	0.978	U	ug/L
3280	Benzo(k)fluoranthene	LW32D	0411052-04	11/9/04	8270	Benzo(k)fluoranthene	#N/A	0.978	U	ug/L
3281	Benzyl Alcohol	LW32D	0411052-04	11/9/04	8270	Benzyl Alcohol	#N/A	4.89	U	ug/L
3282	Bis(2-chloroethoxy)methane	LW32D	0411052-04	11/9/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.978	U	ug/L
3283	Bis(2-chloroethyl)ether	LW32D	0411052-04	11/9/04	8270	Bis(2-chloroethyl)ether	#N/A	1.96	U	ug/L
3284	Bis(2-chloroisopropyl)ether	LW32D	0411052-04	11/9/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.978	U	ug/L
3285	Butyl benzyl phthalate	LW32D	0411052-04	11/9/04	8270	Butyl benzyl phthalate	#N/A	0.978	U	ug/L

	A	B	C	D	E	F	G	H	I	J
3286	Carbazole	LW32D	0411052-04	11/9/04	8270	Carbazole	#N/A	0.978	U	ug/L
3287	Chrysene	LW32D	0411052-04	11/9/04	8270	Chrysene	#N/A	0.978	U	ug/L
3288	Dibenz(a,h)anthracene	LW32D	0411052-04	11/9/04	8270	Dibenz(a,h)anthracene	#N/A	0.978	U	ug/L
3289	Diethyl phthalate	LW32D	0411052-04	11/9/04	8270	Diethyl phthalate	#N/A	0.978	U	ug/L
3290	Dimethyl phthalate	LW32D	0411052-04	11/9/04	8270	Dimethyl phthalate	#N/A	0.978	U	ug/L
3291	Di-n-butyl phthalate	LW32D	0411052-04	11/9/04	8270	Di-n-butyl phthalate	#N/A	0.978	U	ug/L
3292	Di-n-octyl phthalate	LW32D	0411052-04	11/9/04	8270	Di-n-octyl phthalate	#N/A	0.978	U	ug/L
3293	Fluoranthene	LW32D	0411052-04	11/9/04	8270	Fluoranthene	#N/A	0.978	U	ug/L
3294	Hexachlorobenzene	LW32D	0411052-04	11/9/04	8270	Hexachlorobenzene	#N/A	0.978	U	ug/L
3295	Hexachlorobutadiene	LW32D	0411052-04	11/9/04	8270	Hexachlorobutadiene	#N/A	1.96	U	ug/L
3296	Hexachlorocyclopentadiene	LW32D	0411052-04	11/9/04	8270	Hexachlorocyclopentadiene	#N/A	4.89	U	ug/L
3297	Hexachloroethane	LW32D	0411052-04	11/9/04	8270	Hexachloroethane	#N/A	1.96	U	ug/L
3298	Indeno(1,2,3-cd)pyrene	LW32D	0411052-04	11/9/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.978	U	ug/L
3299	Nitrobenzene	LW32D	0411052-04	11/9/04	8270	Nitrobenzene	#N/A	0.978	U	ug/L
3300	N-Nitrosodimethylamine	LW32D	0411052-04	11/9/04	8270	N-Nitrosodimethylamine	#N/A	0.978	U	ug/L
3301	N-Nitrosodi-n-propylamine	LW32D	0411052-04	11/9/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.96	U	ug/L
3302	N-Nitrosodiphenylamine	LW32D	0411052-04	11/9/04	8270	N-Nitrosodiphenylamine	#N/A	0.978	U	ug/L
3303	Phenanthrene	LW32D	0411052-04	11/9/04	8270	Phenanthrene	#N/A	0.978	U	ug/L
3304	Pyrene	LW32D	0411052-04	11/9/04	8270	Pyrene	#N/A	0.978	U	ug/L
3305	Pyridine	LW32D	0411052-04	11/9/04	8270	Pyridine	#N/A	4.89	U	ug/L
3306	Benz(a)anthracene	LW32D	0411052-04	11/9/04	8270SIM	Benz(a)anthracene	#N/A	0.0498	U	ug/L
3307	Benzo(a)pyrene	LW32D	0411052-04	11/9/04	8270SIM	Benzo(a)pyrene	#N/A	0.0498	U	ug/L
3308	Benzo(b)fluoranthene	LW32D	0411052-04	11/9/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0498	U	ug/L
3309	Benzo(g,h,i)perylene	LW32D	0411052-04	11/9/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0498	U	ug/L
3310	Benzo(k)fluoranthene	LW32D	0411052-04	11/9/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0498	U	ug/L
3311	Chrysene	LW32D	0411052-04	11/9/04	8270SIM	Chrysene	#N/A	0.0498	U	ug/L
3312	Dibenz(a,h)anthracene	LW32D	0411052-04	11/9/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0498	U	ug/L
3313	Fluoranthene	LW32D	0411052-04	11/9/04	8270SIM	Fluoranthene	#N/A	0.0498	U	ug/L
3314	Indeno(1,2,3-cd)pyrene	LW32D	0411052-04	11/9/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0498	U	ug/L
3315	Phenanthrene	LW32D	0411052-04	11/9/04	8270SIM	Phenanthrene	#N/A	0.0498	U	ug/L
3316	Pyrene	LW32D	0411052-04	11/9/04	8270SIM	Pyrene	#N/A	0.0498	U	ug/L
3317	Turbidity	LW32D	0411052-04	11/9/04	FIELD	Turbidity	#N/A	3.66		ntu
3318	Pentachlorophenol	LW32S	0411052-03	11/9/04	8270	Pentachlorophenol	3	4.96	U	ug/L
3319	Phenol	LW32S	0411052-03	11/9/04	8270	Phenol	13	1.98	U	ug/L
3320	3-&4-Methylphenol	LW32S	0411052-03	11/9/04	8270	3-&4-Methylphenol	14	9.91	U	ug/L
3321	Isophorone	LW32S	0411052-03	11/9/04	8270	Isophorone	15	0.991	U	ug/L
3322	2,4-Dimethylphenol	LW32S	0411052-03	11/9/04	8270	2,4-Dimethylphenol	16	2.97	U	ug/L
3323	Benzoic Acid	LW32S	0411052-03	11/9/04	8270	Benzoic Acid	17	19.8	U	ug/L
3324	Naphthalene	LW32S	0411052-03	11/9/04	8270	Naphthalene	18	0.991	U	ug/L
3325	2-Methylnaphthalene	LW32S	0411052-03	11/9/04	8270	2-Methylnaphthalene	19	0.991	U	ug/L
3326	2,4,6-Trichlorophenol	LW32S	0411052-03	11/9/04	8270	2,4,6-Trichlorophenol	20	4.96	U	ug/L
3327	2,4,5-Trichlorophenol	LW32S	0411052-03	11/9/04	8270	2,4,5-Trichlorophenol	21	4.96	U	ug/L
3328	Acenaphthene	LW32S	0411052-03	11/9/04	8270	Acenaphthene	22	0.991	U	ug/L
3329	Dibenzofuran	LW32S	0411052-03	11/9/04	8270	Dibenzofuran	23	0.991	U	ug/L
3330	Fluorene	LW32S	0411052-03	11/9/04	8270	Fluorene	24	0.991	U	ug/L
3331	Bis(2-ethylhexyl)phthalate	LW32S	0411052-03	11/9/04	8270	Bis(2-ethylhexyl)phthalate	26	0.991	U	ug/L
3332	Acetone	LW32S	0411052-03	11/9/04	8260	Acetone	30	50	U	ug/L
3333	Carbon disulfide	LW32S	0411052-03	11/9/04	8260	Carbon disulfide	31	2	U	ug/L
3334	2-Butanone	LW32S	0411052-03	11/9/04	8260	2-Butanone	32	10	U	ug/L
3335	Benzene	LW32S	0411052-03	11/9/04	8260	Benzene	33	0.3	U	ug/L
3336	Bromoform	LW32S	0411052-03	11/9/04	8260	Bromoform	34	1	U	ug/L
3337	Toluene	LW32S	0411052-03	11/9/04	8260	Toluene	35	1	U	ug/L
3338	Ethylbenzene	LW32S	0411052-03	11/9/04	8260	Ethylbenzene	36	1	U	ug/L
3339	Styrene	LW32S	0411052-03	11/9/04	8260	Styrene	37	1	U	ug/L
3340	m,p-Xylene	LW32S	0411052-03	11/9/04	8260	m,p-Xylene	38	2	U	ug/L
3341	o-Xylene	LW32S	0411052-03	11/9/04	8260	o-Xylene	39	**1.6**		ug/L
3342	1,3,5-Trimethylbenzene	LW32S	0411052-03	11/9/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
3343	1,2,4-Trimethylbenzene	LW32S	0411052-03	11/9/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
3344	Isopropylbenzene	LW32S	0411052-03	11/9/04	8260	Isopropylbenzene	42	**37.5**		ug/L
3345	n-Propylbenzene	LW32S	0411052-03	11/9/04	8260	n-Propylbenzene	43	**50.6**		ug/L
3346	tert-Butylbenzene	LW32S	0411052-03	11/9/04	8260	tert-Butylbenzene	44	**1.58**		ug/L
3347	sec-Butylbenzene	LW32S	0411052-03	11/9/04	8260	sec-Butylbenzene	45	**12**		ug/L
3348	4-Isopropyltoluene	LW32S	0411052-03	11/9/04	8260	4-Isopropyltoluene	46	1	U	ug/L
3349	n-Butylbenzene	LW32S	0411052-03	11/9/04	8260	n-Butylbenzene	47	**10.7**		ug/L
3350	Naphthalene	LW32S	0411052-03	11/9/04	8260	Naphthalene	48	1	U	ug/L
3351	Methyl tert-butyl ether	LW32S	0411052-03	11/9/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
3352	Diesel Range Hydrocarbons	LW32S	0411052-03	11/9/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**4.44**		mg/L
3353	Lube Oil	LW32S	0411052-03	11/9/04	NWTPH-Dx	Lube Oil	54	**0.721**		mg/L
3354	Gasoline Range Hydrocarbons	LW32S	0411052-03	11/9/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**2.87**		ug/L
3355	Arsenic	LW32S	0411052-03	11/9/04	6020	Arsenic	59	**0.0303**		ug/L
3356	Chromium	LW32S	0411052-03	11/9/04	6010	Chromium	60	**0.0175**		mg/L
3357	Copper	LW32S	0411052-03	11/9/04	6010	Copper	61	0.01	U	mg/L
3358	Lead	LW32S	0411052-03	11/9/04	6020	Lead	62	0.0001	U	ug/L

	A	B	C	D	E	F	G	H	I	J
3359	Nickel	LW32S	0411052-03	11/9/04	6010	Nickel	63	0.005	U	mg/L
3360	Zinc	LW32S	0411052-03	11/9/04	6010	Zinc	64	0.01	U	mg/L
3361	Total Dissolved Solids	LW32S	0411052-03	11/9/04	1601	Total Dissolved Solids	74	**273**		mg/L
3362	Chloride	LW32S	0411052-03	11/9/04	9056	Chloride	75	**2.39**		mg/L
3363	pH	LW32S	0411052-03	11/9/04	FIELD	pH	82	6.71		s.u.
3364	Temperature	LW32S	0411052-03	11/9/04	FIELD	Temperature	83	14.4		c
3365	Conductivity	LW32S	0411052-03	11/9/04	FIELD	Conductivity	84	380		us
3366	Dissolved oxygen	LW32S	0411052-03	11/9/04	FIELD	Dissolved oxygen	85	1.32		mg/l
3367	Naphthalene	LW32S	0411052-03	11/9/04	8270SIM	Naphthalene	119	**0.9**		ug/L
3368	Acenaphthylene	LW32S	0411052-03	11/9/04	8270SIM	Acenaphthylene	121	**0.108**		ug/L
3369	Acenaphthene	LW32S	0411052-03	11/9/04	8270SIM	Acenaphthene	122	**0.47**		ug/L
3370	Fluorene	LW32S	0411052-03	11/9/04	8270SIM	Fluorene	123	**0.705**		ug/L
3371	Anthracene	LW32S	0411052-03	11/9/04	8270SIM	Anthracene	124	0.0489	U	ug/L
3372	1,1,1,2-Tetrachloroethane	LW32S	0411052-03	11/9/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
3373	1,1,1-Trichloroethane	LW32S	0411052-03	11/9/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
3374	1,1,2,2-Tetrachloroethane	LW32S	0411052-03	11/9/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
3375	1,1,2-Trichloroethane	LW32S	0411052-03	11/9/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
3376	1,1-Dichloroethane	LW32S	0411052-03	11/9/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
3377	1,1-Dichloroethene	LW32S	0411052-03	11/9/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
3378	1,1-Dichloropropene	LW32S	0411052-03	11/9/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
3379	1,2,3-Trichlorobenzene	LW32S	0411052-03	11/9/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
3380	1,2,3-Trichloropropane	LW32S	0411052-03	11/9/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
3381	1,2,4-Trichlorobenzene	LW32S	0411052-03	11/9/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
3382	1,2-Dibromo-3-chloropropane	LW32S	0411052-03	11/9/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
3383	1,2-Dibromoethane	LW32S	0411052-03	11/9/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
3384	1,2-Dichlorobenzene	LW32S	0411052-03	11/9/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
3385	1,2-Dichloroethane	LW32S	0411052-03	11/9/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
3386	1,2-Dichloropropane	LW32S	0411052-03	11/9/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
3387	1,3-Dichlorobenzene	LW32S	0411052-03	11/9/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
3388	1,3-Dichloropropane	LW32S	0411052-03	11/9/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
3389	1,4-Dichlorobenzene	LW32S	0411052-03	11/9/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
3390	2,2-Dichloropropane	LW32S	0411052-03	11/9/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
3391	2-Chlorotoluene	LW32S	0411052-03	11/9/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
3392	2-Hexanone	LW32S	0411052-03	11/9/04	8260	2-Hexanone	#N/A	10	U	ug/L
3393	4-Chlorotoluene	LW32S	0411052-03	11/9/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
3394	4-Methyl-2-pentanone	LW32S	0411052-03	11/9/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
3395	Acrylonitrile	LW32S	0411052-03	11/9/04	8260	Acrylonitrile	#N/A	5	U	ug/L
3396	Bromobenzene	LW32S	0411052-03	11/9/04	8260	Bromobenzene	#N/A	1	U	ug/L
3397	Bromochloromethane	LW32S	0411052-03	11/9/04	8260	Bromochloromethane	#N/A	1	U	ug/L
3398	Bromodichloromethane	LW32S	0411052-03	11/9/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
3399	Bromomethane	LW32S	0411052-03	11/9/04	8260	Bromomethane	#N/A	1	U	ug/L
3400	Carbon tetrachloride	LW32S	0411052-03	11/9/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
3401	Chlorobenzene	LW32S	0411052-03	11/9/04	8260	Chlorobenzene	#N/A	1	U	ug/L
3402	Chloroethane	LW32S	0411052-03	11/9/04	8260	Chloroethane	#N/A	1	U	ug/L
3403	Chloroform	LW32S	0411052-03	11/9/04	8260	Chloroform	#N/A	1	U	ug/L
3404	Chloromethane	LW32S	0411052-03	11/9/04	8260	Chloromethane	#N/A	1	U	ug/L
3405	cis-1,2-Dichloroethene	LW32S	0411052-03	11/9/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
3406	cis-1,3-Dichloropropene	LW32S	0411052-03	11/9/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
3407	Dibromochloromethane	LW32S	0411052-03	11/9/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
3408	Dibromomethane	LW32S	0411052-03	11/9/04	8260	Dibromomethane	#N/A	1	U	ug/L
3409	Dichlorodifluoromethane	LW32S	0411052-03	11/9/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
3410	Hexachlorobutadiene	LW32S	0411052-03	11/9/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
3411	Methylene chloride	LW32S	0411052-03	11/9/04	8260	Methylene chloride	#N/A	20	U	ug/L
3412	Tetrachloroethene	LW32S	0411052-03	11/9/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
3413	trans-1,2-Dichloroethene	LW32S	0411052-03	11/9/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
3414	trans-1,3-Dichloropropene	LW32S	0411052-03	11/9/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
3415	Trichloroethene	LW32S	0411052-03	11/9/04	8260	Trichloroethene	#N/A	1	U	ug/L
3416	Trichlorofluoromethane	LW32S	0411052-03	11/9/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
3417	Vinyl chloride	LW32S	0411052-03	11/9/04	8260	Vinyl chloride	#N/A	1	U	ug/L
3418	1,2,4-Trichlorobenzene	LW32S	0411052-03	11/9/04	8270	1,2,4-Trichlorobenzene	#N/A	0.991	U	ug/L
3419	1,2-Dichlorobenzene	LW32S	0411052-03	11/9/04	8270	1,2-Dichlorobenzene	#N/A	0.991	U	ug/L
3420	1,3-Dichlorobenzene	LW32S	0411052-03	11/9/04	8270	1,3-Dichlorobenzene	#N/A	0.991	U	ug/L
3421	1,4-Dichlorobenzene	LW32S	0411052-03	11/9/04	8270	1,4-Dichlorobenzene	#N/A	0.991	U	ug/L
3422	2,4-Dichlorophenol	LW32S	0411052-03	11/9/04	8270	2,4-Dichlorophenol	#N/A	2.97	U	ug/L
3423	2,4-Dinitrophenol	LW32S	0411052-03	11/9/04	8270	2,4-Dinitrophenol	#N/A	9.91	U	ug/L
3424	2,4-Dinitrotoluene	LW32S	0411052-03	11/9/04	8270	2,4-Dinitrotoluene	#N/A	4.96	U	ug/L
3425	2,6-Dinitrotoluene	LW32S	0411052-03	11/9/04	8270	2,6-Dinitrotoluene	#N/A	4.96	U	ug/L
3426	2-Chloronaphthalene	LW32S	0411052-03	11/9/04	8270	2-Chloronaphthalene	#N/A	0.991	U	ug/L
3427	2-Chlorophenol	LW32S	0411052-03	11/9/04	8270	2-Chlorophenol	#N/A	0.991	U	ug/L
3428	2-Methylphenol	LW32S	0411052-03	11/9/04	8270	2-Methylphenol	#N/A	1.98	U	ug/L
3429	2-Nitroaniline	LW32S	0411052-03	11/9/04	8270	2-Nitroaniline	#N/A	4.96	U	ug/L
3430	2-Nitrophenol	LW32S	0411052-03	11/9/04	8270	2-Nitrophenol	#N/A	4.96	U	ug/L
3431	3,3'-Dichlorobenzidine	LW32S	0411052-03	11/9/04	8270	3,3'-Dichlorobenzidine	#N/A	4.96	U	ug/L

	A	B	C	D	E	F	G	H	I	J
3432	3-Nitroaniline	LW32S	0411052-03	11/9/04	8270	3-Nitroaniline	#N/A	5.95	U	ug/L
3433	4,6-Dinitro-2-methylphenol	LW32S	0411052-03	11/9/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.91	U	ug/L
3434	4-Bromophenyl phenyl ether	LW32S	0411052-03	11/9/04	8270	4-Bromophenyl phenyl ether	#N/A	0.991	U	ug/L
3435	4-Chloro-3-methylphenol	LW32S	0411052-03	11/9/04	8270	4-Chloro-3-methylphenol	#N/A	1.98	U	ug/L
3436	4-Chloroaniline	LW32S	0411052-03	11/9/04	8270	4-Chloroaniline	#N/A	2.97	U	ug/L
3437	4-Chlorophenyl phenyl ether	LW32S	0411052-03	11/9/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.991	U	ug/L
3438	4-Nitroaniline	LW32S	0411052-03	11/9/04	8270	4-Nitroaniline	#N/A	4.96	U	ug/L
3439	4-Nitrophenol	LW32S	0411052-03	11/9/04	8270	4-Nitrophenol	#N/A	4.96	U	ug/L
3440	Benz(a)anthracene	LW32S	0411052-03	11/9/04	8270	Benz(a)anthracene	#N/A	0.991	U	ug/L
3441	Benzo(a)pyrene	LW32S	0411052-03	11/9/04	8270	Benzo(a)pyrene	#N/A	0.991	U	ug/L
3442	Benzo(b)fluoranthene	LW32S	0411052-03	11/9/04	8270	Benzo(b)fluoranthene	#N/A	0.991	U	ug/L
3443	Benzo(g,h,i)perylene	LW32S	0411052-03	11/9/04	8270	Benzo(g,h,i)perylene	#N/A	0.991	U	ug/L
3444	Benzo(k)fluoranthene	LW32S	0411052-03	11/9/04	8270	Benzo(k)fluoranthene	#N/A	0.991	U	ug/L
3445	Benzyl Alcohol	LW32S	0411052-03	11/9/04	8270	Benzyl Alcohol	#N/A	4.96	U	ug/L
3446	Bis(2-chloroethoxy)methane	LW32S	0411052-03	11/9/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.991	U	ug/L
3447	Bis(2-chloroethyl)ether	LW32S	0411052-03	11/9/04	8270	Bis(2-chloroethyl)ether	#N/A	1.98	U	ug/L
3448	Bis(2-chloroisopropyl)ether	LW32S	0411052-03	11/9/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.991	U	ug/L
3449	Butyl benzyl phthalate	LW32S	0411052-03	11/9/04	8270	Butyl benzyl phthalate	#N/A	0.991	U	ug/L
3450	Carbazole	LW32S	0411052-03	11/9/04	8270	Carbazole	#N/A	0.991	U	ug/L
3451	Chrysene	LW32S	0411052-03	11/9/04	8270	Chrysene	#N/A	0.991	U	ug/L
3452	Dibenz(a,h)anthracene	LW32S	0411052-03	11/9/04	8270	Dibenz(a,h)anthracene	#N/A	0.991	U	ug/L
3453	Diethyl phthalate	LW32S	0411052-03	11/9/04	8270	Diethyl phthalate	#N/A	0.991	U	ug/L
3454	Dimethyl phthalate	LW32S	0411052-03	11/9/04	8270	Dimethyl phthalate	#N/A	0.991	U	ug/L
3455	Di-n-butyl phthalate	LW32S	0411052-03	11/9/04	8270	Di-n-butyl phthalate	#N/A	0.991	U	ug/L
3456	Di-n-octyl phthalate	LW32S	0411052-03	11/9/04	8270	Di-n-octyl phthalate	#N/A	0.991	U	ug/L
3457	Fluoranthene	LW32S	0411052-03	11/9/04	8270	Fluoranthene	#N/A	0.991	U	ug/L
3458	Hexachlorobenzene	LW32S	0411052-03	11/9/04	8270	Hexachlorobenzene	#N/A	0.991	U	ug/L
3459	Hexachlorobutadiene	LW32S	0411052-03	11/9/04	8270	Hexachlorobutadiene	#N/A	1.98	U	ug/L
3460	Hexachlorocyclopentadiene	LW32S	0411052-03	11/9/04	8270	Hexachlorocyclopentadiene	#N/A	4.96	U	ug/L
3461	Hexachloroethane	LW32S	0411052-03	11/9/04	8270	Hexachloroethane	#N/A	1.98	U	ug/L
3462	Indeno(1,2,3-cd)pyrene	LW32S	0411052-03	11/9/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.991	U	ug/L
3463	Nitrobenzene	LW32S	0411052-03	11/9/04	8270	Nitrobenzene	#N/A	0.991	U	ug/L
3464	N-Nitrosodimethylamine	LW32S	0411052-03	11/9/04	8270	N-Nitrosodimethylamine	#N/A	0.991	U	ug/L
3465	N-Nitrosodi-n-propylamine	LW32S	0411052-03	11/9/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.98	U	ug/L
3466	N-Nitrosodiphenylamine	LW32S	0411052-03	11/9/04	8270	N-Nitrosodiphenylamine	#N/A	0.991	U	ug/L
3467	Phenanthrene	LW32S	0411052-03	11/9/04	8270	Phenanthrene	#N/A	0.991	U	ug/L
3468	Pyrene	LW32S	0411052-03	11/9/04	8270	Pyrene	#N/A	0.991	U	ug/L
3469	Pyridine	LW32S	0411052-03	11/9/04	8270	Pyridine	#N/A	4.96	U	ug/L
3470	Benz(a)anthracene	LW32S	0411052-03	11/9/04	8270SIM	Benz(a)anthracene	#N/A	0.0489	U	ug/L
3471	Benzo(a)pyrene	LW32S	0411052-03	11/9/04	8270SIM	Benzo(a)pyrene	#N/A	0.0489	U	ug/L
3472	Benzo(b)fluoranthene	LW32S	0411052-03	11/9/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0489	U	ug/L
3473	Benzo(g,h,i)perylene	LW32S	0411052-03	11/9/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0489	U	ug/L
3474	Benzo(k)fluoranthene	LW32S	0411052-03	11/9/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0489	U	ug/L
3475	Chrysene	LW32S	0411052-03	11/9/04	8270SIM	Chrysene	#N/A	0.0489	U	ug/L
3476	Dibenz(a,h)anthracene	LW32S	0411052-03	11/9/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0489	U	ug/L
3477	Fluoranthene	LW32S	0411052-03	11/9/04	8270SIM	Fluoranthene	#N/A	0.0489	U	ug/L
3478	Indeno(1,2,3-cd)pyrene	LW32S	0411052-03	11/9/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0489	U	ug/L
3479	Phenanthrene	LW32S	0411052-03	11/9/04	8270SIM	Phenanthrene	#N/A	**0.186**		ug/L
3480	Pyrene	LW32S	0411052-03	11/9/04	8270SIM	Pyrene	#N/A	0.0489	U	ug/L
3481	Turbidity	LW32S	0411052-03	11/9/04	FIELD	Turbidity	#N/A	0		ntu
3482	Pentachlorophenol	LW34S	0411047-01	11/8/04	8270	Pentachlorophenol	3	5	U	ug/L
3483	Phenol	LW34S	0411047-01	11/8/04	8270	Phenol	13	2	U	ug/L
3484	3-&4-Methylphenol	LW34S	0411047-01	11/8/04	8270	3-&4-Methylphenol	14	10	U	ug/L
3485	Isophorone	LW34S	0411047-01	11/8/04	8270	Isophorone	15	1	U	ug/L
3486	2,4-Dimethylphenol	LW34S	0411047-01	11/8/04	8270	2,4-Dimethylphenol	16	3	U	ug/L
3487	Benzoic Acid	LW34S	0411047-01	11/8/04	8270	Benzoic Acid	17	20	U	ug/L
3488	Naphthalene	LW34S	0411047-01	11/8/04	8270	Naphthalene	18	1	U	ug/L
3489	2-Methylnaphthalene	LW34S	0411047-01	11/8/04	8270	2-Methylnaphthalene	19	1	U	ug/L
3490	2,4,6-Trichlorophenol	LW34S	0411047-01	11/8/04	8270	2,4,6-Trichlorophenol	20	5	U	ug/L
3491	2,4,5-Trichlorophenol	LW34S	0411047-01	11/8/04	8270	2,4,5-Trichlorophenol	21	5	U	ug/L
3492	Acenaphthene	LW34S	0411047-01	11/8/04	8270	Acenaphthene	22	1	U	ug/L
3493	Dibenzofuran	LW34S	0411047-01	11/8/04	8270	Dibenzofuran	23	1	U	ug/L
3494	Fluorene	LW34S	0411047-01	11/8/04	8270	Fluorene	24	1	U	ug/L
3495	Bis(2-ethylhexyl)phthalate	LW34S	0411047-01	11/8/04	8270	Bis(2-ethylhexyl)phthalate	26	1	U	ug/L
3496	Acetone	LW34S	0411047-01	11/8/04	8260	Acetone	30	50	U	ug/L
3497	Carbon disulfide	LW34S	0411047-01	11/8/04	8260	Carbon disulfide	31	2	U	ug/L
3498	2-Butanone	LW34S	0411047-01	11/8/04	8260	2-Butanone	32	10	U	ug/L
3499	Benzene	LW34S	0411047-01	11/8/04	8260	Benzene	33	0.3	U	ug/L
3500	Bromoform	LW34S	0411047-01	11/8/04	8260	Bromoform	34	1	U	ug/L
3501	Toluene	LW34S	0411047-01	11/8/04	8260	Toluene	35	1	U	ug/L
3502	Ethylbenzene	LW34S	0411047-01	11/8/04	8260	Ethylbenzene	36	1	U	ug/L
3503	Styrene	LW34S	0411047-01	11/8/04	8260	Styrene	37	1	U	ug/L
3504	m,p-Xylene	LW34S	0411047-01	11/8/04	8260	m,p-Xylene	38	2	U	ug/L

	A	B	C	D	E	F	G	H	I	J
3505	o-Xylene	LW34S	0411047-01	11/8/04	8260	o-Xylene	39	1	U	ug/L
3506	1,3,5-Trimethylbenzene	LW34S	0411047-01	11/8/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
3507	1,2,4-Trimethylbenzene	LW34S	0411047-01	11/8/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
3508	Isopropylbenzene	LW34S	0411047-01	11/8/04	8260	Isopropylbenzene	42	1	U	ug/L
3509	n-Propylbenzene	LW34S	0411047-01	11/8/04	8260	n-Propylbenzene	43	1	U	ug/L
3510	tert-Butylbenzene	LW34S	0411047-01	11/8/04	8260	tert-Butylbenzene	44	1	U	ug/L
3511	sec-Butylbenzene	LW34S	0411047-01	11/8/04	8260	sec-Butylbenzene	45	1	U	ug/L
3512	4-Isopropyltoluene	LW34S	0411047-01	11/8/04	8260	4-Isopropyltoluene	46	1	U	ug/L
3513	n-Butylbenzene	LW34S	0411047-01	11/8/04	8260	n-Butylbenzene	47	1	U	ug/L
3514	Naphthalene	LW34S	0411047-01	11/8/04	8260	Naphthalene	48	1	U	ug/L
3515	Methyl tert-butyl ether	LW34S	0411047-01	11/8/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
3516	Diesel Range Hydrocarbons	LW34S	0411047-01	11/8/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	0.251	U	mg/L
3517	Lube Oil	LW34S	0411047-01	11/8/04	NWTPH-Dx	Lube Oil	54	0.501	U	mg/L
3518	Gasoline Range Hydrocarbons	LW34S	0411047-01	11/8/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	0.1	U	ug/L
3519	Arsenic	LW34S	0411047-01	11/8/04	6020	Arsenic	59	0.001	U	ug/L
3520	Chromium	LW34S	0411047-01	11/8/04	6010	Chromium	60	0.005	U	mg/L
3521	Copper	LW34S	0411047-01	11/8/04	6010	Copper	61	0.01	U	mg/L
3522	Lead	LW34S	0411047-01	11/8/04	6020	Lead	62	0.00015	U	ug/L
3523	Nickel	LW34S	0411047-01	11/8/04	6010	Nickel	63	0.005	U	mg/L
3524	Zinc	LW34S	0411047-01	11/8/04	6010	Zinc	64	0.01	U	mg/L
3525	Total Dissolved Solids	LW34S	0411047-01	11/8/04	1601	Total Dissolved Solids	74	**201**		mg/L
3526	Chloride	LW34S	0411047-01	11/8/04	9056	Chloride	75	**2.62**		mg/L
3527	pH	LW34S	0411047-01	11/8/04	FIELD	pH	82	5.8		s.u.
3528	Temperature	LW34S	0411047-01	11/8/04	FIELD	Temperature	83	15.1		c
3529	Conductivity	LW34S	0411047-01	11/8/04	FIELD	Conductivity	84	207		us
3530	Dissolved oxygen	LW34S	0411047-01	11/8/04	FIELD	Dissolved oxygen	85	1.38		mg/l
3531	Naphthalene	LW34S	0411047-01	11/8/04	8270SIM	Naphthalene	119	0.0498	U	ug/L
3532	Acenaphthylene	LW34S	0411047-01	11/8/04	8270SIM	Acenaphthylene	121	0.0498	U	ug/L
3533	Acenaphthene	LW34S	0411047-01	11/8/04	8270SIM	Acenaphthene	122	0.0498	U	ug/L
3534	Fluorene	LW34S	0411047-01	11/8/04	8270SIM	Fluorene	123	0.0498	U	ug/L
3535	Anthracene	LW34S	0411047-01	11/8/04	8270SIM	Anthracene	124	0.0498	U	ug/L
3536	1,1,1,2-Tetrachloroethane	LW34S	0411047-01	11/8/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
3537	1,1,1-Trichloroethane	LW34S	0411047-01	11/8/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
3538	1,1,2,2-Tetrachloroethane	LW34S	0411047-01	11/8/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
3539	1,1,2-Trichloroethane	LW34S	0411047-01	11/8/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
3540	1,1-Dichloroethane	LW34S	0411047-01	11/8/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
3541	1,1-Dichloroethene	LW34S	0411047-01	11/8/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
3542	1,1-Dichloropropene	LW34S	0411047-01	11/8/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
3543	1,2,3-Trichlorobenzene	LW34S	0411047-01	11/8/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
3544	1,2,3-Trichloropropane	LW34S	0411047-01	11/8/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
3545	1,2,4-Trichlorobenzene	LW34S	0411047-01	11/8/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
3546	1,2-Dibromo-3-chloropropane	LW34S	0411047-01	11/8/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
3547	1,2-Dibromoethane	LW34S	0411047-01	11/8/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
3548	1,2-Dichlorobenzene	LW34S	0411047-01	11/8/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
3549	1,2-Dichloroethane	LW34S	0411047-01	11/8/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
3550	1,2-Dichloropropane	LW34S	0411047-01	11/8/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
3551	1,3-Dichlorobenzene	LW34S	0411047-01	11/8/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
3552	1,3-Dichloropropane	LW34S	0411047-01	11/8/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
3553	1,4-Dichlorobenzene	LW34S	0411047-01	11/8/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
3554	2,2-Dichloropropane	LW34S	0411047-01	11/8/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
3555	2-Chlorotoluene	LW34S	0411047-01	11/8/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
3556	2-Hexanone	LW34S	0411047-01	11/8/04	8260	2-Hexanone	#N/A	10	U	ug/L
3557	4-Chlorotoluene	LW34S	0411047-01	11/8/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
3558	4-Methyl-2-pentanone	LW34S	0411047-01	11/8/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
3559	Acrylonitrile	LW34S	0411047-01	11/8/04	8260	Acrylonitrile	#N/A	5	U	ug/L
3560	Bromobenzene	LW34S	0411047-01	11/8/04	8260	Bromobenzene	#N/A	1	U	ug/L
3561	Bromochloromethane	LW34S	0411047-01	11/8/04	8260	Bromochloromethane	#N/A	1	U	ug/L
3562	Bromodichloromethane	LW34S	0411047-01	11/8/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
3563	Bromomethane	LW34S	0411047-01	11/8/04	8260	Bromomethane	#N/A	1	U	ug/L
3564	Carbon tetrachloride	LW34S	0411047-01	11/8/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
3565	Chlorobenzene	LW34S	0411047-01	11/8/04	8260	Chlorobenzene	#N/A	1	U	ug/L
3566	Chloroethane	LW34S	0411047-01	11/8/04	8260	Chloroethane	#N/A	1	U	ug/L
3567	Chloroform	LW34S	0411047-01	11/8/04	8260	Chloroform	#N/A	1	U	ug/L
3568	Chloromethane	LW34S	0411047-01	11/8/04	8260	Chloromethane	#N/A	1	U	ug/L
3569	cis-1,2-Dichloroethene	LW34S	0411047-01	11/8/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
3570	cis-1,3-Dichloropropene	LW34S	0411047-01	11/8/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
3571	Dibromochloromethane	LW34S	0411047-01	11/8/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
3572	Dibromomethane	LW34S	0411047-01	11/8/04	8260	Dibromomethane	#N/A	1	U	ug/L
3573	Dichlorodifluoromethane	LW34S	0411047-01	11/8/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
3574	Hexachlorobutadiene	LW34S	0411047-01	11/8/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
3575	Methylene chloride	LW34S	0411047-01	11/8/04	8260	Methylene chloride	#N/A	20	U	ug/L
3576	Tetrachloroethene	LW34S	0411047-01	11/8/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
3577	trans-1,2-Dichloroethene	LW34S	0411047-01	11/8/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
3578	trans-1,3-Dichloropropene	LW34S	0411047-01	11/8/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
3579	Trichloroethene	LW34S	0411047-01	11/8/04	8260	Trichloroethene	#N/A	1	U	ug/L
3580	Trichlorofluoromethane	LW34S	0411047-01	11/8/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
3581	Vinyl chloride	LW34S	0411047-01	11/8/04	8260	Vinyl chloride	#N/A	1	U	ug/L
3582	1,2,4-Trichlorobenzene	LW34S	0411047-01	11/8/04	8270	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
3583	1,2-Dichlorobenzene	LW34S	0411047-01	11/8/04	8270	1,2-Dichlorobenzene	#N/A	1	U	ug/L
3584	1,3-Dichlorobenzene	LW34S	0411047-01	11/8/04	8270	1,3-Dichlorobenzene	#N/A	1	U	ug/L
3585	1,4-Dichlorobenzene	LW34S	0411047-01	11/8/04	8270	1,4-Dichlorobenzene	#N/A	1	U	ug/L
3586	2,4-Dichlorophenol	LW34S	0411047-01	11/8/04	8270	2,4-Dichlorophenol	#N/A	3	U	ug/L
3587	2,4-Dinitrophenol	LW34S	0411047-01	11/8/04	8270	2,4-Dinitrophenol	#N/A	10	U	ug/L
3588	2,4-Dinitrotoluene	LW34S	0411047-01	11/8/04	8270	2,4-Dinitrotoluene	#N/A	5	U	ug/L
3589	2,6-Dinitrotoluene	LW34S	0411047-01	11/8/04	8270	2,6-Dinitrotoluene	#N/A	5	U	ug/L
3590	2-Chloronaphthalene	LW34S	0411047-01	11/8/04	8270	2-Chloronaphthalene	#N/A	1	U	ug/L
3591	2-Chlorophenol	LW34S	0411047-01	11/8/04	8270	2-Chlorophenol	#N/A	1	U	ug/L
3592	2-Methylphenol	LW34S	0411047-01	11/8/04	8270	2-Methylphenol	#N/A	2	U	ug/L
3593	2-Nitroaniline	LW34S	0411047-01	11/8/04	8270	2-Nitroaniline	#N/A	5	U	ug/L
3594	2-Nitrophenol	LW34S	0411047-01	11/8/04	8270	2-Nitrophenol	#N/A	5	U	ug/L
3595	3,3'-Dichlorobenzidine	LW34S	0411047-01	11/8/04	8270	3,3'-Dichlorobenzidine	#N/A	5	U	ug/L
3596	3-Nitroaniline	LW34S	0411047-01	11/8/04	8270	3-Nitroaniline	#N/A	6	U	ug/L
3597	4,6-Dinitro-2-methylphenol	LW34S	0411047-01	11/8/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10	U	ug/L
3598	4-Bromophenyl phenyl ether	LW34S	0411047-01	11/8/04	8270	4-Bromophenyl phenyl ether	#N/A	1	U	ug/L
3599	4-Chloro-3-methylphenol	LW34S	0411047-01	11/8/04	8270	4-Chloro-3-methylphenol	#N/A	2	U	ug/L
3600	4-Chloroaniline	LW34S	0411047-01	11/8/04	8270	4-Chloroaniline	#N/A	3	U	ug/L
3601	4-Chlorophenyl phenyl ether	LW34S	0411047-01	11/8/04	8270	4-Chlorophenyl phenyl ether	#N/A	1	U	ug/L
3602	4-Nitroaniline	LW34S	0411047-01	11/8/04	8270	4-Nitroaniline	#N/A	5	U	ug/L
3603	4-Nitrophenol	LW34S	0411047-01	11/8/04	8270	4-Nitrophenol	#N/A	5	U	ug/L
3604	Benz(a)anthracene	LW34S	0411047-01	11/8/04	8270	Benz(a)anthracene	#N/A	1	U	ug/L
3605	Benzo(a)pyrene	LW34S	0411047-01	11/8/04	8270	Benzo(a)pyrene	#N/A	1	U	ug/L
3606	Benzo(b)fluoranthene	LW34S	0411047-01	11/8/04	8270	Benzo(b)fluoranthene	#N/A	1	U	ug/L
3607	Benzo(g,h,i)perylene	LW34S	0411047-01	11/8/04	8270	Benzo(g,h,i)perylene	#N/A	1	U	ug/L
3608	Benzo(k)fluoranthene	LW34S	0411047-01	11/8/04	8270	Benzo(k)fluoranthene	#N/A	1	U	ug/L
3609	Benzyl Alcohol	LW34S	0411047-01	11/8/04	8270	Benzyl Alcohol	#N/A	5	U	ug/L
3610	Bis(2-chloroethoxy)methane	LW34S	0411047-01	11/8/04	8270	Bis(2-chloroethoxy)methane	#N/A	1	U	ug/L
3611	Bis(2-chloroethyl)ether	LW34S	0411047-01	11/8/04	8270	Bis(2-chloroethyl)ether	#N/A	2	U	ug/L
3612	Bis(2-chloroisopropyl)ether	LW34S	0411047-01	11/8/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1	U	ug/L
3613	Butyl benzyl phthalate	LW34S	0411047-01	11/8/04	8270	Butyl benzyl phthalate	#N/A	1	U	ug/L
3614	Carbazole	LW34S	0411047-01	11/8/04	8270	Carbazole	#N/A	1	U	ug/L
3615	Chrysene	LW34S	0411047-01	11/8/04	8270	Chrysene	#N/A	1	U	ug/L
3616	Dibenz(a,h)anthracene	LW34S	0411047-01	11/8/04	8270	Dibenz(a,h)anthracene	#N/A	1	U	ug/L
3617	Diethyl phthalate	LW34S	0411047-01	11/8/04	8270	Diethyl phthalate	#N/A	1	U	ug/L
3618	Dimethyl phthalate	LW34S	0411047-01	11/8/04	8270	Dimethyl phthalate	#N/A	1	U	ug/L
3619	Di-n-butyl phthalate	LW34S	0411047-01	11/8/04	8270	Di-n-butyl phthalate	#N/A	1	U	ug/L
3620	Di-n-octyl phthalate	LW34S	0411047-01	11/8/04	8270	Di-n-octyl phthalate	#N/A	1	U	ug/L
3621	Fluoranthene	LW34S	0411047-01	11/8/04	8270	Fluoranthene	#N/A	1	U	ug/L
3622	Hexachlorobenzene	LW34S	0411047-01	11/8/04	8270	Hexachlorobenzene	#N/A	1	U	ug/L
3623	Hexachlorobutadiene	LW34S	0411047-01	11/8/04	8270	Hexachlorobutadiene	#N/A	2	U	ug/L
3624	Hexachlorocyclopentadiene	LW34S	0411047-01	11/8/04	8270	Hexachlorocyclopentadiene	#N/A	5	U	ug/L
3625	Hexachloroethane	LW34S	0411047-01	11/8/04	8270	Hexachloroethane	#N/A	2	U	ug/L
3626	Indeno(1,2,3-cd)pyrene	LW34S	0411047-01	11/8/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1	U	ug/L
3627	Nitrobenzene	LW34S	0411047-01	11/8/04	8270	Nitrobenzene	#N/A	1	U	ug/L
3628	N-Nitrosodimethylamine	LW34S	0411047-01	11/8/04	8270	N-Nitrosodimethylamine	#N/A	1	U	ug/L
3629	N-Nitrosodi-n-propylamine	LW34S	0411047-01	11/8/04	8270	N-Nitrosodi-n-propylamine	#N/A	2	U	ug/L
3630	N-Nitrosodiphenylamine	LW34S	0411047-01	11/8/04	8270	N-Nitrosodiphenylamine	#N/A	1	U	ug/L
3631	Phenanthrene	LW34S	0411047-01	11/8/04	8270	Phenanthrene	#N/A	1	U	ug/L
3632	Pyrene	LW34S	0411047-01	11/8/04	8270	Pyrene	#N/A	1	U	ug/L
3633	Pyridine	LW34S	0411047-01	11/8/04	8270	Pyridine	#N/A	5	U	ug/L
3634	Benz(a)anthracene	LW34S	0411047-01	11/8/04	8270SIM	Benz(a)anthracene	#N/A	0.0498	U	ug/L
3635	Benzo(a)pyrene	LW34S	0411047-01	11/8/04	8270SIM	Benzo(a)pyrene	#N/A	0.0498	U	ug/L
3636	Benzo(b)fluoranthene	LW34S	0411047-01	11/8/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0498	U	ug/L
3637	Benzo(g,h,i)perylene	LW34S	0411047-01	11/8/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0498	U	ug/L
3638	Benzo(k)fluoranthene	LW34S	0411047-01	11/8/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0498	U	ug/L
3639	Chrysene	LW34S	0411047-01	11/8/04	8270SIM	Chrysene	#N/A	0.0498	U	ug/L
3640	Dibenz(a,h)anthracene	LW34S	0411047-01	11/8/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0498	U	ug/L
3641	Fluoranthene	LW34S	0411047-01	11/8/04	8270SIM	Fluoranthene	#N/A	0.0498	U	ug/L
3642	Indeno(1,2,3-cd)pyrene	LW34S	0411047-01	11/8/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0498	U	ug/L
3643	Phenanthrene	LW34S	0411047-01	11/8/04	8270SIM	Phenanthrene	#N/A	0.0498	U	ug/L
3644	Pyrene	LW34S	0411047-01	11/8/04	8270SIM	Pyrene	#N/A	0.0498	U	ug/L
3645	Turbidity	LW34S	0411047-01	11/8/04	FIELD	Turbidity	#N/A	0		ntu
3646	Pentachlorophenol	LW35D	0411059-07	11/10/04	8270	Pentachlorophenol	3	5.12	U	ug/L
3647	Phenol	LW35D	0411059-07	11/10/04	8270	Phenol	13	2.05	U	ug/L
3648	3-&4-Methylphenol	LW35D	0411059-07	11/10/04	8270	3-&4-Methylphenol	14	10.2	U	ug/L
3649	Isophorone	LW35D	0411059-07	11/10/04	8270	Isophorone	15	1.02	U	ug/L
3650	2,4-Dimethylphenol	LW35D	0411059-07	11/10/04	8270	2,4-Dimethylphenol	16	3.07	U	ug/L

	A	B	C	D	E	F	G	H	I	J
3651	Benzoic Acid	LW35D	0411059-07	11/10/04	8270	Benzoic Acid	17	20.5	U	ug/L
3652	Naphthalene	LW35D	0411059-07	11/10/04	8270	Naphthalene	18	1.02	U	ug/L
3653	2-Methylnaphthalene	LW35D	0411059-07	11/10/04	8270	2-Methylnaphthalene	19	1.02	U	ug/L
3654	2,4,6-Trichlorophenol	LW35D	0411059-07	11/10/04	8270	2,4,6-Trichlorophenol	20	5.12	U	ug/L
3655	2,4,5-Trichlorophenol	LW35D	0411059-07	11/10/04	8270	2,4,5-Trichlorophenol	21	5.12	U	ug/L
3656	Acenaphthene	LW35D	0411059-07	11/10/04	8270	Acenaphthene	22	1.02	U	ug/L
3657	Dibenzofuran	LW35D	0411059-07	11/10/04	8270	Dibenzofuran	23	1.02	U	ug/L
3658	Fluorene	LW35D	0411059-07	11/10/04	8270	Fluorene	24	1.02	U	ug/L
3659	Bis(2-ethylhexyl)phthalate	LW35D	0411059-07	11/10/04	8270	Bis(2-ethylhexyl)phthalate	26	**2.73**		ug/L
3660	Acetone	LW35D	0411059-07	11/10/04	8260	Acetone	30	50	U	ug/L
3661	Carbon disulfide	LW35D	0411059-07	11/10/04	8260	Carbon disulfide	31	2	U	ug/L
3662	2-Butanone	LW35D	0411059-07	11/10/04	8260	2-Butanone	32	10	U	ug/L
3663	Benzene	LW35D	0411059-07	11/10/04	8260	Benzene	33	0.3	U	ug/L
3664	Bromoform	LW35D	0411059-07	11/10/04	8260	Bromoform	34	1	U	ug/L
3665	Toluene	LW35D	0411059-07	11/10/04	8260	Toluene	35	1	U	ug/L
3666	Ethylbenzene	LW35D	0411059-07	11/10/04	8260	Ethylbenzene	36	1	U	ug/L
3667	Styrene	LW35D	0411059-07	11/10/04	8260	Styrene	37	1	U	ug/L
3668	m,p-Xylene	LW35D	0411059-07	11/10/04	8260	m,p-Xylene	38	2	U	ug/L
3669	o-Xylene	LW35D	0411059-07	11/10/04	8260	o-Xylene	39	1	U	ug/L
3670	1,3,5-Trimethylbenzene	LW35D	0411059-07	11/10/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
3671	1,2,4-Trimethylbenzene	LW35D	0411059-07	11/10/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
3672	Isopropylbenzene	LW35D	0411059-07	11/10/04	8260	Isopropylbenzene	42	1	U	ug/L
3673	n-Propylbenzene	LW35D	0411059-07	11/10/04	8260	n-Propylbenzene	43	1	U	ug/L
3674	tert-Butylbenzene	LW35D	0411059-07	11/10/04	8260	tert-Butylbenzene	44	1	U	ug/L
3675	sec-Butylbenzene	LW35D	0411059-07	11/10/04	8260	sec-Butylbenzene	45	1	U	ug/L
3676	4-Isopropyltoluene	LW35D	0411059-07	11/10/04	8260	4-Isopropyltoluene	46	1	U	ug/L
3677	n-Butylbenzene	LW35D	0411059-07	11/10/04	8260	n-Butylbenzene	47	1	U	ug/L
3678	Naphthalene	LW35D	0411059-07	11/10/04	8260	Naphthalene	48	1	U	ug/L
3679	Methyl tert-butyl ether	LW35D	0411059-07	11/10/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
3680	Diesel Range Hydrocarbons	LW35D	0411059-07	11/10/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**1.96**		mg/L
3681	Lube Oil	LW35D	0411059-07	11/10/04	NWTPH-Dx	Lube Oil	54	**1.45**		mg/L
3682	Gasoline Range Hydrocarbons	LW35D	0411059-07	11/10/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	0.1	U	ug/L
3683	Arsenic	LW35D	0411059-07	11/10/04	6020	Arsenic	59	**0.0166**		ug/L
3684	Chromium	LW35D	0411059-07	11/10/04	6010	Chromium	60	**0.051**		mg/L
3685	Copper	LW35D	0411059-07	11/10/04	6010	Copper	61	**0.0354**		mg/L
3686	Lead	LW35D	0411059-07	11/10/04	6020	Lead	62	**0.0307**		ug/L
3687	Nickel	LW35D	0411059-07	11/10/04	6010	Nickel	63	**0.0647**		mg/L
3688	Zinc	LW35D	0411059-07	11/10/04	6010	Zinc	64	**0.168**		mg/L
3689	Total Dissolved Solids	LW35D	0411059-07	11/10/04	1601	Total Dissolved Solids	74	**868**	J	mg/L
3690	Chloride	LW35D	0411059-07	11/10/04	9056	Chloride	75	**1.64**		mg/L
3691	pH	LW35D	0411059-07	11/10/04	FIELD	pH	82	6.79		s.u.
3692	Temperature	LW35D	0411059-07	11/10/04	FIELD	Temperature	83	13.4		c
3693	Conductivity	LW35D	0411059-07	11/10/04	FIELD	Conductivity	84	473		us
3694	Dissolved oxygen	LW35D	0411059-07	11/10/04	FIELD	Dissolved oxygen	85	2.67		mg/l
3695	Naphthalene	LW35D	0411059-07	11/10/04	8270SIM	Naphthalene	119	0.0503	U	ug/L
3696	Acenaphthylene	LW35D	0411059-07	11/10/04	8270SIM	Acenaphthylene	121	0.0503	U	ug/L
3697	Acenaphthene	LW35D	0411059-07	11/10/04	8270SIM	Acenaphthene	122	0.0503	U	ug/L
3698	Fluorene	LW35D	0411059-07	11/10/04	8270SIM	Fluorene	123	0.0503	U	ug/L
3699	Anthracene	LW35D	0411059-07	11/10/04	8270SIM	Anthracene	124	**0.0603**		ug/L
3700	1,1,1,2-Tetrachloroethane	LW35D	0411059-07	11/10/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
3701	1,1,1-Trichloroethane	LW35D	0411059-07	11/10/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
3702	1,1,2,2-Tetrachloroethane	LW35D	0411059-07	11/10/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
3703	1,1,2-Trichloroethane	LW35D	0411059-07	11/10/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
3704	1,1-Dichloroethane	LW35D	0411059-07	11/10/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
3705	1,1-Dichloroethene	LW35D	0411059-07	11/10/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
3706	1,1-Dichloropropene	LW35D	0411059-07	11/10/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
3707	1,2,3-Trichlorobenzene	LW35D	0411059-07	11/10/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
3708	1,2,3-Trichloropropane	LW35D	0411059-07	11/10/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
3709	1,2,4-Trichlorobenzene	LW35D	0411059-07	11/10/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
3710	1,2-Dibromo-3-chloropropane	LW35D	0411059-07	11/10/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
3711	1,2-Dibromoethane	LW35D	0411059-07	11/10/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
3712	1,2-Dichlorobenzene	LW35D	0411059-07	11/10/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
3713	1,2-Dichloroethane	LW35D	0411059-07	11/10/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
3714	1,2-Dichloropropane	LW35D	0411059-07	11/10/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
3715	1,3-Dichlorobenzene	LW35D	0411059-07	11/10/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
3716	1,3-Dichloropropane	LW35D	0411059-07	11/10/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
3717	1,4-Dichlorobenzene	LW35D	0411059-07	11/10/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
3718	2,2-Dichloropropane	LW35D	0411059-07	11/10/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
3719	2-Chlorotoluene	LW35D	0411059-07	11/10/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
3720	2-Hexanone	LW35D	0411059-07	11/10/04	8260	2-Hexanone	#N/A	10	U	ug/L
3721	4-Chlorotoluene	LW35D	0411059-07	11/10/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
3722	4-Methyl-2-pentanone	LW35D	0411059-07	11/10/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
3723	Acrylonitrile	LW35D	0411059-07	11/10/04	8260	Acrylonitrile	#N/A	5	U	ug/L

	A	B	C	D	E	F	G	H	I	J
3724	Bromobenzene	LW35D	0411059-07	11/10/04	8260	Bromobenzene	#N/A	1	U	ug/L
3725	Bromochloromethane	LW35D	0411059-07	11/10/04	8260	Bromochloromethane	#N/A	1	U	ug/L
3726	Bromodichloromethane	LW35D	0411059-07	11/10/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
3727	Bromomethane	LW35D	0411059-07	11/10/04	8260	Bromomethane	#N/A	1	U	ug/L
3728	Carbon tetrachloride	LW35D	0411059-07	11/10/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
3729	Chlorobenzene	LW35D	0411059-07	11/10/04	8260	Chlorobenzene	#N/A	1	U	ug/L
3730	Chloroethane	LW35D	0411059-07	11/10/04	8260	Chloroethane	#N/A	1	U	ug/L
3731	Chloroform	LW35D	0411059-07	11/10/04	8260	Chloroform	#N/A	1	U	ug/L
3732	Chloromethane	LW35D	0411059-07	11/10/04	8260	Chloromethane	#N/A	1	U	ug/L
3733	cis-1,2-Dichloroethene	LW35D	0411059-07	11/10/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
3734	cis-1,3-Dichloropropene	LW35D	0411059-07	11/10/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
3735	Dibromochloromethane	LW35D	0411059-07	11/10/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
3736	Dibromomethane	LW35D	0411059-07	11/10/04	8260	Dibromomethane	#N/A	1	U	ug/L
3737	Dichlorodifluoromethane	LW35D	0411059-07	11/10/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
3738	Hexachlorobutadiene	LW35D	0411059-07	11/10/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
3739	Methylene chloride	LW35D	0411059-07	11/10/04	8260	Methylene chloride	#N/A	20	U	ug/L
3740	Tetrachloroethene	LW35D	0411059-07	11/10/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
3741	trans-1,2-Dichloroethene	LW35D	0411059-07	11/10/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
3742	trans-1,3-Dichloropropene	LW35D	0411059-07	11/10/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
3743	Trichloroethene	LW35D	0411059-07	11/10/04	8260	Trichloroethene	#N/A	1	U	ug/L
3744	Trichlorofluoromethane	LW35D	0411059-07	11/10/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
3745	Vinyl chloride	LW35D	0411059-07	11/10/04	8260	Vinyl chloride	#N/A	1	U	ug/L
3746	1,2,4-Trichlorobenzene	LW35D	0411059-07	11/10/04	8270	1,2,4-Trichlorobenzene	#N/A	1.02	U	ug/L
3747	1,2-Dichlorobenzene	LW35D	0411059-07	11/10/04	8270	1,2-Dichlorobenzene	#N/A	1.02	U	ug/L
3748	1,3-Dichlorobenzene	LW35D	0411059-07	11/10/04	8270	1,3-Dichlorobenzene	#N/A	1.02	U	ug/L
3749	1,4-Dichlorobenzene	LW35D	0411059-07	11/10/04	8270	1,4-Dichlorobenzene	#N/A	1.02	U	ug/L
3750	2,4-Dichlorophenol	LW35D	0411059-07	11/10/04	8270	2,4-Dichlorophenol	#N/A	3.07	U	ug/L
3751	2,4-Dinitrophenol	LW35D	0411059-07	11/10/04	8270	2,4-Dinitrophenol	#N/A	10.2	U	ug/L
3752	2,4-Dinitrotoluene	LW35D	0411059-07	11/10/04	8270	2,4-Dinitrotoluene	#N/A	5.12	U	ug/L
3753	2,6-Dinitrotoluene	LW35D	0411059-07	11/10/04	8270	2,6-Dinitrotoluene	#N/A	5.12	U	ug/L
3754	2-Chloronaphthalene	LW35D	0411059-07	11/10/04	8270	2-Chloronaphthalene	#N/A	1.02	U	ug/L
3755	2-Chlorophenol	LW35D	0411059-07	11/10/04	8270	2-Chlorophenol	#N/A	1.02	U	ug/L
3756	2-Methylphenol	LW35D	0411059-07	11/10/04	8270	2-Methylphenol	#N/A	2.05	U	ug/L
3757	2-Nitroaniline	LW35D	0411059-07	11/10/04	8270	2-Nitroaniline	#N/A	5.12	U	ug/L
3758	2-Nitrophenol	LW35D	0411059-07	11/10/04	8270	2-Nitrophenol	#N/A	5.12	U	ug/L
3759	3,3'-Dichlorobenzidine	LW35D	0411059-07	11/10/04	8270	3,3'-Dichlorobenzidine	#N/A	5.12	U	ug/L
3760	3-Nitroaniline	LW35D	0411059-07	11/10/04	8270	3-Nitroaniline	#N/A	6.15	U	ug/L
3761	4,6-Dinitro-2-methylphenol	LW35D	0411059-07	11/10/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.2	U	ug/L
3762	4-Bromophenyl phenyl ether	LW35D	0411059-07	11/10/04	8270	4-Bromophenyl phenyl ether	#N/A	1.02	U	ug/L
3763	4-Chloro-3-methylphenol	LW35D	0411059-07	11/10/04	8270	4-Chloro-3-methylphenol	#N/A	2.05	U	ug/L
3764	4-Chloroaniline	LW35D	0411059-07	11/10/04	8270	4-Chloroaniline	#N/A	3.07	U	ug/L
3765	4-Chlorophenyl phenyl ether	LW35D	0411059-07	11/10/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.02	U	ug/L
3766	4-Nitroaniline	LW35D	0411059-07	11/10/04	8270	4-Nitroaniline	#N/A	5.12	U	ug/L
3767	4-Nitrophenol	LW35D	0411059-07	11/10/04	8270	4-Nitrophenol	#N/A	5.12	U	ug/L
3768	Benz(a)anthracene	LW35D	0411059-07	11/10/04	8270	Benz(a)anthracene	#N/A	1.02	U	ug/L
3769	Benzo(a)pyrene	LW35D	0411059-07	11/10/04	8270	Benzo(a)pyrene	#N/A	1.02	U	ug/L
3770	Benzo(b)fluoranthene	LW35D	0411059-07	11/10/04	8270	Benzo(b)fluoranthene	#N/A	1.02	U	ug/L
3771	Benzo(g,h,i)perylene	LW35D	0411059-07	11/10/04	8270	Benzo(g,h,i)perylene	#N/A	1.02	U	ug/L
3772	Benzo(k)fluoranthene	LW35D	0411059-07	11/10/04	8270	Benzo(k)fluoranthene	#N/A	1.02	U	ug/L
3773	Benzyl Alcohol	LW35D	0411059-07	11/10/04	8270	Benzyl Alcohol	#N/A	5.12	U	ug/L
3774	Bis(2-chloroethoxy)methane	LW35D	0411059-07	11/10/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.02	U	ug/L
3775	Bis(2-chloroethyl)ether	LW35D	0411059-07	11/10/04	8270	Bis(2-chloroethyl)ether	#N/A	2.05	U	ug/L
3776	Bis(2-chloroisopropyl)ether	LW35D	0411059-07	11/10/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.02	U	ug/L
3777	Butyl benzyl phthalate	LW35D	0411059-07	11/10/04	8270	Butyl benzyl phthalate	#N/A	1.02	U	ug/L
3778	Carbazole	LW35D	0411059-07	11/10/04	8270	Carbazole	#N/A	1.02	U	ug/L
3779	Chrysene	LW35D	0411059-07	11/10/04	8270	Chrysene	#N/A	1.02	U	ug/L
3780	Dibenz(a,h)anthracene	LW35D	0411059-07	11/10/04	8270	Dibenz(a,h)anthracene	#N/A	1.02	U	ug/L
3781	Diethyl phthalate	LW35D	0411059-07	11/10/04	8270	Diethyl phthalate	#N/A	1.02	U	ug/L
3782	Dimethyl phthalate	LW35D	0411059-07	11/10/04	8270	Dimethyl phthalate	#N/A	1.02	U	ug/L
3783	Di-n-butyl phthalate	LW35D	0411059-07	11/10/04	8270	Di-n-butyl phthalate	#N/A	1.02	U	ug/L
3784	Di-n-octyl phthalate	LW35D	0411059-07	11/10/04	8270	Di-n-octyl phthalate	#N/A	1.02	U	ug/L
3785	Fluoranthene	LW35D	0411059-07	11/10/04	8270	Fluoranthene	#N/A	1.02	U	ug/L
3786	Hexachlorobenzene	LW35D	0411059-07	11/10/04	8270	Hexachlorobenzene	#N/A	1.02	U	ug/L
3787	Hexachlorobutadiene	LW35D	0411059-07	11/10/04	8270	Hexachlorobutadiene	#N/A	2.05	U	ug/L
3788	Hexachlorocyclopentadiene	LW35D	0411059-07	11/10/04	8270	Hexachlorocyclopentadiene	#N/A	5.12	U	ug/L
3789	Hexachloroethane	LW35D	0411059-07	11/10/04	8270	Hexachloroethane	#N/A	2.05	U	ug/L
3790	Indeno(1,2,3-cd)pyrene	LW35D	0411059-07	11/10/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.02	U	ug/L
3791	Nitrobenzene	LW35D	0411059-07	11/10/04	8270	Nitrobenzene	#N/A	1.02	U	ug/L
3792	N-Nitrosodimethylamine	LW35D	0411059-07	11/10/04	8270	N-Nitrosodimethylamine	#N/A	1.02	U	ug/L
3793	N-Nitrosodi-n-propylamine	LW35D	0411059-07	11/10/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.05	U	ug/L
3794	N-Nitrosodiphenylamine	LW35D	0411059-07	11/10/04	8270	N-Nitrosodiphenylamine	#N/A	1.02	U	ug/L
3795	Phenanthrene	LW35D	0411059-07	11/10/04	8270	Phenanthrene	#N/A	1.02	U	ug/L
3796	Pyrene	LW35D	0411059-07	11/10/04	8270	Pyrene	#N/A	1.02	U	ug/L

	A	B	C	D	E	F	G	H	I	J
3797	Pyridine	LW35D	0411059-07	11/10/04	8270	Pyridine	#N/A	5.12	U	ug/L
3798	Benz(a)anthracene	LW35D	0411059-07	11/10/04	8270SIM	Benz(a)anthracene	#N/A	**0.181**		ug/L
3799	Benzo(a)pyrene	LW35D	0411059-07	11/10/04	8270SIM	Benzo(a)pyrene	#N/A	**0.181**		ug/L
3800	Benzo(b)fluoranthene	LW35D	0411059-07	11/10/04	8270SIM	Benzo(b)fluoranthene	#N/A	**0.171**		ug/L
3801	Benzo(g,h,i)perylene	LW35D	0411059-07	11/10/04	8270SIM	Benzo(g,h,i)perylene	#N/A	**0.101**		ug/L
3802	Benzo(k)fluoranthene	LW35D	0411059-07	11/10/04	8270SIM	Benzo(k)fluoranthene	#N/A	**0.0603**		ug/L
3803	Chrysene	LW35D	0411059-07	11/10/04	8270SIM	Chrysene	#N/A	**0.141**		ug/L
3804	Dibenz(a,h)anthracene	LW35D	0411059-07	11/10/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0503	U	ug/L
3805	Fluoranthene	LW35D	0411059-07	11/10/04	8270SIM	Fluoranthene	#N/A	**0.231**		ug/L
3806	Indeno(1,2,3-cd)pyrene	LW35D	0411059-07	11/10/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	**0.0804**		ug/L
3807	Phenanthrene	LW35D	0411059-07	11/10/04	8270SIM	Phenanthrene	#N/A	**0.101**		ug/L
3808	Pyrene	LW35D	0411059-07	11/10/04	8270SIM	Pyrene	#N/A	**0.241**		ug/L
3809	Turbidity	LW35D	0411059-07	11/10/04	FIELD	Turbidity	#N/A	999		ntu
3810	Pentachlorophenol	LW36D	0411059-08	11/10/04	8270	Pentachlorophenol	3	4.95	U	ug/L
3811	Phenol	LW36D	0411059-08	11/10/04	8270	Phenol	13	1.98	U	ug/L
3812	3-&4-Methylphenol	LW36D	0411059-08	11/10/04	8270	3-&4-Methylphenol	14	9.9	U	ug/L
3813	Isophorone	LW36D	0411059-08	11/10/04	8270	Isophorone	15	0.99	U	ug/L
3814	2,4-Dimethylphenol	LW36D	0411059-08	11/10/04	8270	2,4-Dimethylphenol	16	2.97	U	ug/L
3815	Benzoic Acid	LW36D	0411059-08	11/10/04	8270	Benzoic Acid	17	19.8	U	ug/L
3816	Naphthalene	LW36D	0411059-08	11/10/04	8270	Naphthalene	18	0.99	U	ug/L
3817	2-Methylnaphthalene	LW36D	0411059-08	11/10/04	8270	2-Methylnaphthalene	19	0.99	U	ug/L
3818	2,4,6-Trichlorophenol	LW36D	0411059-08	11/10/04	8270	2,4,6-Trichlorophenol	20	4.95	U	ug/L
3819	2,4,5-Trichlorophenol	LW36D	0411059-08	11/10/04	8270	2,4,5-Trichlorophenol	21	4.95	U	ug/L
3820	Acenaphthene	LW36D	0411059-08	11/10/04	8270	Acenaphthene	22	0.99	U	ug/L
3821	Dibenzofuran	LW36D	0411059-08	11/10/04	8270	Dibenzofuran	23	0.99	U	ug/L
3822	Fluorene	LW36D	0411059-08	11/10/04	8270	Fluorene	24	0.99	U	ug/L
3823	Bis(2-ethylhexyl)phthalate	LW36D	0411059-08	11/10/04	8270	Bis(2-ethylhexyl)phthalate	26	0.99	U	ug/L
3824	Acetone	LW36D	0411059-08	11/10/04	8260	Acetone	30	50	U	ug/L
3825	Carbon disulfide	LW36D	0411059-08	11/10/04	8260	Carbon disulfide	31	2	U	ug/L
3826	2-Butanone	LW36D	0411059-08	11/10/04	8260	2-Butanone	32	10	U	ug/L
3827	Benzene	LW36D	0411059-08	11/10/04	8260	Benzene	33	0.3	U	ug/L
3828	Bromoform	LW36D	0411059-08	11/10/04	8260	Bromoform	34	1	U	ug/L
3829	Toluene	LW36D	0411059-08	11/10/04	8260	Toluene	35	1	U	ug/L
3830	Ethylbenzene	LW36D	0411059-08	11/10/04	8260	Ethylbenzene	36	1	U	ug/L
3831	Styrene	LW36D	0411059-08	11/10/04	8260	Styrene	37	1	U	ug/L
3832	m,p-Xylene	LW36D	0411059-08	11/10/04	8260	m,p-Xylene	38	2	U	ug/L
3833	o-Xylene	LW36D	0411059-08	11/10/04	8260	o-Xylene	39	1	U	ug/L
3834	1,3,5-Trimethylbenzene	LW36D	0411059-08	11/10/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
3835	1,2,4-Trimethylbenzene	LW36D	0411059-08	11/10/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
3836	Isopropylbenzene	LW36D	0411059-08	11/10/04	8260	Isopropylbenzene	42	1	U	ug/L
3837	n-Propylbenzene	LW36D	0411059-08	11/10/04	8260	n-Propylbenzene	43	1	U	ug/L
3838	tert-Butylbenzene	LW36D	0411059-08	11/10/04	8260	tert-Butylbenzene	44	1	U	ug/L
3839	sec-Butylbenzene	LW36D	0411059-08	11/10/04	8260	sec-Butylbenzene	45	1	U	ug/L
3840	4-Isopropyltoluene	LW36D	0411059-08	11/10/04	8260	4-Isopropyltoluene	46	1	U	ug/L
3841	n-Butylbenzene	LW36D	0411059-08	11/10/04	8260	n-Butylbenzene	47	1	U	ug/L
3842	Naphthalene	LW36D	0411059-08	11/10/04	8260	Naphthalene	48	1	U	ug/L
3843	Methyl tert-butyl ether	LW36D	0411059-08	11/10/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
3844	Diesel Range Hydrocarbons	LW36D	0411059-08	11/10/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.252**		mg/L
3845	Lube Oil	LW36D	0411059-08	11/10/04	NWTPH-Dx	Lube Oil	54	**0.58**		mg/L
3846	Gasoline Range Hydrocarbons	LW36D	0411059-08	11/10/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	0.1	U	ug/L
3847	Arsenic	LW36D	0411059-08	11/10/04	6020	Arsenic	59	0.001	U	ug/L
3848	Chromium	LW36D	0411059-08	11/10/04	6010	Chromium	60	0.005	U	mg/L
3849	Copper	LW36D	0411059-08	11/10/04	6010	Copper	61	0.01	U	mg/L
3850	Lead	LW36D	0411059-08	11/10/04	6020	Lead	62	0.00025	U	ug/L
3851	Nickel	LW36D	0411059-08	11/10/04	6010	Nickel	63	0.005	U	mg/L
3852	Zinc	LW36D	0411059-08	11/10/04	6010	Zinc	64	0.01	U	mg/L
3853	Total Dissolved Solids	LW36D	0411059-08	11/10/04	1601	Total Dissolved Solids	74	**180**	J	mg/L
3854	Chloride	LW36D	0411059-08	11/10/04	9056	Chloride	75	**3.32**		mg/L
3855	pH	LW36D	0411059-08	11/10/04	FIELD	pH	82	6.84		s.u.
3856	Temperature	LW36D	0411059-08	11/10/04	FIELD	Temperature	83	16.2		c
3857	Conductivity	LW36D	0411059-08	11/10/04	FIELD	Conductivity	84	212		us
3858	Dissolved oxygen	LW36D	0411059-08	11/10/04	FIELD	Dissolved oxygen	85	1.84		mg/l
3859	Naphthalene	LW36D	0411059-08	11/10/04	8270SIM	Naphthalene	119	0.0505	U	ug/L
3860	Acenaphthylene	LW36D	0411059-08	11/10/04	8270SIM	Acenaphthylene	121	0.0505	U	ug/L
3861	Acenaphthene	LW36D	0411059-08	11/10/04	8270SIM	Acenaphthene	122	0.0505	U	ug/L
3862	Fluorene	LW36D	0411059-08	11/10/04	8270SIM	Fluorene	123	0.0505	U	ug/L
3863	Anthracene	LW36D	0411059-08	11/10/04	8270SIM	Anthracene	124	0.0505	U	ug/L
3864	1,1,1,2-Tetrachloroethane	LW36D	0411059-08	11/10/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
3865	1,1,1-Trichloroethane	LW36D	0411059-08	11/10/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
3866	1,1,2,2-Tetrachloroethane	LW36D	0411059-08	11/10/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
3867	1,1,2-Trichloroethane	LW36D	0411059-08	11/10/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
3868	1,1-Dichloroethane	LW36D	0411059-08	11/10/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
3869	1,1-Dichloroethene	LW36D	0411059-08	11/10/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
3870	1,1-Dichloropropene	LW36D	0411059-08	11/10/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
3871	1,2,3-Trichlorobenzene	LW36D	0411059-08	11/10/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
3872	1,2,3-Trichloropropane	LW36D	0411059-08	11/10/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
3873	1,2,4-Trichlorobenzene	LW36D	0411059-08	11/10/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
3874	1,2-Dibromo-3-chloropropane	LW36D	0411059-08	11/10/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
3875	1,2-Dibromoethane	LW36D	0411059-08	11/10/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
3876	1,2-Dichlorobenzene	LW36D	0411059-08	11/10/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
3877	1,2-Dichloroethane	LW36D	0411059-08	11/10/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
3878	1,2-Dichloropropane	LW36D	0411059-08	11/10/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
3879	1,3-Dichlorobenzene	LW36D	0411059-08	11/10/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
3880	1,3-Dichloropropane	LW36D	0411059-08	11/10/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
3881	1,4-Dichlorobenzene	LW36D	0411059-08	11/10/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
3882	2,2-Dichloropropane	LW36D	0411059-08	11/10/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
3883	2-Chlorotoluene	LW36D	0411059-08	11/10/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
3884	2-Hexanone	LW36D	0411059-08	11/10/04	8260	2-Hexanone	#N/A	10	U	ug/L
3885	4-Chlorotoluene	LW36D	0411059-08	11/10/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
3886	4-Methyl-2-pentanone	LW36D	0411059-08	11/10/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
3887	Acrylonitrile	LW36D	0411059-08	11/10/04	8260	Acrylonitrile	#N/A	5	U	ug/L
3888	Bromobenzene	LW36D	0411059-08	11/10/04	8260	Bromobenzene	#N/A	1	U	ug/L
3889	Bromochloromethane	LW36D	0411059-08	11/10/04	8260	Bromochloromethane	#N/A	1	U	ug/L
3890	Bromodichloromethane	LW36D	0411059-08	11/10/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
3891	Bromomethane	LW36D	0411059-08	11/10/04	8260	Bromomethane	#N/A	1	U	ug/L
3892	Carbon tetrachloride	LW36D	0411059-08	11/10/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
3893	Chlorobenzene	LW36D	0411059-08	11/10/04	8260	Chlorobenzene	#N/A	1	U	ug/L
3894	Chloroethane	LW36D	0411059-08	11/10/04	8260	Chloroethane	#N/A	1	U	ug/L
3895	Chloroform	LW36D	0411059-08	11/10/04	8260	Chloroform	#N/A	1	U	ug/L
3896	Chloromethane	LW36D	0411059-08	11/10/04	8260	Chloromethane	#N/A	1	U	ug/L
3897	cis-1,2-Dichloroethene	LW36D	0411059-08	11/10/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
3898	cis-1,3-Dichloropropene	LW36D	0411059-08	11/10/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
3899	Dibromochloromethane	LW36D	0411059-08	11/10/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
3900	Dibromomethane	LW36D	0411059-08	11/10/04	8260	Dibromomethane	#N/A	1	U	ug/L
3901	Dichlorodifluoromethane	LW36D	0411059-08	11/10/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
3902	Hexachlorobutadiene	LW36D	0411059-08	11/10/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
3903	Methylene chloride	LW36D	0411059-08	11/10/04	8260	Methylene chloride	#N/A	20	U	ug/L
3904	Tetrachloroethene	LW36D	0411059-08	11/10/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
3905	trans-1,2-Dichloroethene	LW36D	0411059-08	11/10/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
3906	trans-1,3-Dichloropropene	LW36D	0411059-08	11/10/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
3907	Trichloroethene	LW36D	0411059-08	11/10/04	8260	Trichloroethene	#N/A	1	U	ug/L
3908	Trichlorofluoromethane	LW36D	0411059-08	11/10/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
3909	Vinyl chloride	LW36D	0411059-08	11/10/04	8260	Vinyl chloride	#N/A	1	U	ug/L
3910	1,2,4-Trichlorobenzene	LW36D	0411059-08	11/10/04	8270	1,2,4-Trichlorobenzene	#N/A	0.99	U	ug/L
3911	1,2-Dichlorobenzene	LW36D	0411059-08	11/10/04	8270	1,2-Dichlorobenzene	#N/A	0.99	U	ug/L
3912	1,3-Dichlorobenzene	LW36D	0411059-08	11/10/04	8270	1,3-Dichlorobenzene	#N/A	0.99	U	ug/L
3913	1,4-Dichlorobenzene	LW36D	0411059-08	11/10/04	8270	1,4-Dichlorobenzene	#N/A	0.99	U	ug/L
3914	2,4-Dichlorophenol	LW36D	0411059-08	11/10/04	8270	2,4-Dichlorophenol	#N/A	2.97	U	ug/L
3915	2,4-Dinitrophenol	LW36D	0411059-08	11/10/04	8270	2,4-Dinitrophenol	#N/A	9.9	U	ug/L
3916	2,4-Dinitrotoluene	LW36D	0411059-08	11/10/04	8270	2,4-Dinitrotoluene	#N/A	4.95	U	ug/L
3917	2,6-Dinitrotoluene	LW36D	0411059-08	11/10/04	8270	2,6-Dinitrotoluene	#N/A	4.95	U	ug/L
3918	2-Chloronaphthalene	LW36D	0411059-08	11/10/04	8270	2-Chloronaphthalene	#N/A	0.99	U	ug/L
3919	2-Chlorophenol	LW36D	0411059-08	11/10/04	8270	2-Chlorophenol	#N/A	0.99	U	ug/L
3920	2-Methylphenol	LW36D	0411059-08	11/10/04	8270	2-Methylphenol	#N/A	1.98	U	ug/L
3921	2-Nitroaniline	LW36D	0411059-08	11/10/04	8270	2-Nitroaniline	#N/A	4.95	U	ug/L
3922	2-Nitrophenol	LW36D	0411059-08	11/10/04	8270	2-Nitrophenol	#N/A	4.95	U	ug/L
3923	3,3'-Dichlorobenzidine	LW36D	0411059-08	11/10/04	8270	3,3'-Dichlorobenzidine	#N/A	4.95	U	ug/L
3924	3-Nitroaniline	LW36D	0411059-08	11/10/04	8270	3-Nitroaniline	#N/A	5.94	U	ug/L
3925	4,6-Dinitro-2-methylphenol	LW36D	0411059-08	11/10/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.9	U	ug/L
3926	4-Bromophenyl phenyl ether	LW36D	0411059-08	11/10/04	8270	4-Bromophenyl phenyl ether	#N/A	0.99	U	ug/L
3927	4-Chloro-3-methylphenol	LW36D	0411059-08	11/10/04	8270	4-Chloro-3-methylphenol	#N/A	1.98	U	ug/L
3928	4-Chloroaniline	LW36D	0411059-08	11/10/04	8270	4-Chloroaniline	#N/A	2.97	U	ug/L
3929	4-Chlorophenyl phenyl ether	LW36D	0411059-08	11/10/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.99	U	ug/L
3930	4-Nitroaniline	LW36D	0411059-08	11/10/04	8270	4-Nitroaniline	#N/A	4.95	U	ug/L
3931	4-Nitrophenol	LW36D	0411059-08	11/10/04	8270	4-Nitrophenol	#N/A	4.95	U	ug/L
3932	Benz(a)anthracene	LW36D	0411059-08	11/10/04	8270	Benz(a)anthracene	#N/A	0.99	U	ug/L
3933	Benzo(a)pyrene	LW36D	0411059-08	11/10/04	8270	Benzo(a)pyrene	#N/A	0.99	U	ug/L
3934	Benzo(b)fluoranthene	LW36D	0411059-08	11/10/04	8270	Benzo(b)fluoranthene	#N/A	0.99	U	ug/L
3935	Benzo(g,h,i)perylene	LW36D	0411059-08	11/10/04	8270	Benzo(g,h,i)perylene	#N/A	0.99	U	ug/L
3936	Benzo(k)fluoranthene	LW36D	0411059-08	11/10/04	8270	Benzo(k)fluoranthene	#N/A	0.99	U	ug/L
3937	Benzyl Alcohol	LW36D	0411059-08	11/10/04	8270	Benzyl Alcohol	#N/A	4.95	U	ug/L
3938	Bis(2-chloroethoxy)methane	LW36D	0411059-08	11/10/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.99	U	ug/L
3939	Bis(2-chloroethyl)ether	LW36D	0411059-08	11/10/04	8270	Bis(2-chloroethyl)ether	#N/A	1.98	U	ug/L
3940	Bis(2-chloroisopropyl)ether	LW36D	0411059-08	11/10/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.99	U	ug/L
3941	Butyl benzyl phthalate	LW36D	0411059-08	11/10/04	8270	Butyl benzyl phthalate	#N/A	0.99	U	ug/L
3942	Carbazole	LW36D	0411059-08	11/10/04	8270	Carbazole	#N/A	0.99	U	ug/L

	A	B	C	D	E	F	G	H	I	J
3943	Chrysene	LW36D	0411059-08	11/10/04	8270	Chrysene	#N/A	0.99	U	ug/L
3944	Dibenz(a,h)anthracene	LW36D	0411059-08	11/10/04	8270	Dibenz(a,h)anthracene	#N/A	0.99	U	ug/L
3945	Diethyl phthalate	LW36D	0411059-08	11/10/04	8270	Diethyl phthalate	#N/A	0.99	U	ug/L
3946	Dimethyl phthalate	LW36D	0411059-08	11/10/04	8270	Dimethyl phthalate	#N/A	0.99	U	ug/L
3947	Di-n-butyl phthalate	LW36D	0411059-08	11/10/04	8270	Di-n-butyl phthalate	#N/A	0.99	U	ug/L
3948	Di-n-octyl phthalate	LW36D	0411059-08	11/10/04	8270	Di-n-octyl phthalate	#N/A	0.99	U	ug/L
3949	Fluoranthene	LW36D	0411059-08	11/10/04	8270	Fluoranthene	#N/A	0.99	U	ug/L
3950	Hexachlorobenzene	LW36D	0411059-08	11/10/04	8270	Hexachlorobenzene	#N/A	0.99	U	ug/L
3951	Hexachlorobutadiene	LW36D	0411059-08	11/10/04	8270	Hexachlorobutadiene	#N/A	1.98	U	ug/L
3952	Hexachlorocyclopentadiene	LW36D	0411059-08	11/10/04	8270	Hexachlorocyclopentadiene	#N/A	4.95	U	ug/L
3953	Hexachloroethane	LW36D	0411059-08	11/10/04	8270	Hexachloroethane	#N/A	1.98	U	ug/L
3954	Indeno(1,2,3-cd)pyrene	LW36D	0411059-08	11/10/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.99	U	ug/L
3955	Nitrobenzene	LW36D	0411059-08	11/10/04	8270	Nitrobenzene	#N/A	0.99	U	ug/L
3956	N-Nitrosodimethylamine	LW36D	0411059-08	11/10/04	8270	N-Nitrosodimethylamine	#N/A	0.99	U	ug/L
3957	N-Nitrosodi-n-propylamine	LW36D	0411059-08	11/10/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.98	U	ug/L
3958	N-Nitrosodiphenylamine	LW36D	0411059-08	11/10/04	8270	N-Nitrosodiphenylamine	#N/A	0.99	U	ug/L
3959	Phenanthrene	LW36D	0411059-08	11/10/04	8270	Phenanthrene	#N/A	0.99	U	ug/L
3960	Pyrene	LW36D	0411059-08	11/10/04	8270	Pyrene	#N/A	0.99	U	ug/L
3961	Pyridine	LW36D	0411059-08	11/10/04	8270	Pyridine	#N/A	4.95	U	ug/L
3962	Benz(a)anthracene	LW36D	0411059-08	11/10/04	8270SIM	Benz(a)anthracene	#N/A	0.0505	U	ug/L
3963	Benzo(a)pyrene	LW36D	0411059-08	11/10/04	8270SIM	Benzo(a)pyrene	#N/A	0.0505	U	ug/L
3964	Benzo(b)fluoranthene	LW36D	0411059-08	11/10/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0505	U	ug/L
3965	Benzo(g,h,i)perylene	LW36D	0411059-08	11/10/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0505	U	ug/L
3966	Benzo(k)fluoranthene	LW36D	0411059-08	11/10/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0505	U	ug/L
3967	Chrysene	LW36D	0411059-08	11/10/04	8270SIM	Chrysene	#N/A	0.0505	U	ug/L
3968	Dibenz(a,h)anthracene	LW36D	0411059-08	11/10/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0505	U	ug/L
3969	Fluoranthene	LW36D	0411059-08	11/10/04	8270SIM	Fluoranthene	#N/A	0.0505	U	ug/L
3970	Indeno(1,2,3-cd)pyrene	LW36D	0411059-08	11/10/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0505	U	ug/L
3971	Phenanthrene	LW36D	0411059-08	11/10/04	8270SIM	Phenanthrene	#N/A	0.0505	U	ug/L
3972	Pyrene	LW36D	0411059-08	11/10/04	8270SIM	Pyrene	#N/A	0.0505	U	ug/L
3973	Turbidity	LW36D	0411059-08	11/10/04	FIELD	Turbidity	#N/A	31		ntu
3974	Pentachlorophenol	LW37D	0411059-09	11/10/04	8270	Pentachlorophenol	3	5.07	U	ug/L
3975	Phenol	LW37D	0411059-09	11/10/04	8270	Phenol	13	2.03	U	ug/L
3976	3-&4-Methylphenol	LW37D	0411059-09	11/10/04	8270	3-&4-Methylphenol	14	10.1	U	ug/L
3977	Isophorone	LW37D	0411059-09	11/10/04	8270	Isophorone	15	1.01	U	ug/L
3978	2,4-Dimethylphenol	LW37D	0411059-09	11/10/04	8270	2,4-Dimethylphenol	16	3.04	U	ug/L
3979	Benzoic Acid	LW37D	0411059-09	11/10/04	8270	Benzoic Acid	17	20.3	U	ug/L
3980	Naphthalene	LW37D	0411059-09	11/10/04	8270	Naphthalene	18	1.01	U	ug/L
3981	2-Methylnaphthalene	LW37D	0411059-09	11/10/04	8270	2-Methylnaphthalene	19	1.01	U	ug/L
3982	2,4,6-Trichlorophenol	LW37D	0411059-09	11/10/04	8270	2,4,6-Trichlorophenol	20	5.07	U	ug/L
3983	2,4,5-Trichlorophenol	LW37D	0411059-09	11/10/04	8270	2,4,5-Trichlorophenol	21	5.07	U	ug/L
3984	Acenaphthene	LW37D	0411059-09	11/10/04	8270	Acenaphthene	22	1.01	U	ug/L
3985	Dibenzofuran	LW37D	0411059-09	11/10/04	8270	Dibenzofuran	23	1.01	U	ug/L
3986	Fluorene	LW37D	0411059-09	11/10/04	8270	Fluorene	24	1.01	U	ug/L
3987	Bis(2-ethylhexyl)phthalate	LW37D	0411059-09	11/10/04	8270	Bis(2-ethylhexyl)phthalate	26	1.01	U	ug/L
3988	Acetone	LW37D	0411059-09	11/10/04	8260	Acetone	30	50	U	ug/L
3989	Carbon disulfide	LW37D	0411059-09	11/10/04	8260	Carbon disulfide	31	2	U	ug/L
3990	2-Butanone	LW37D	0411059-09	11/10/04	8260	2-Butanone	32	10	U	ug/L
3991	Benzene	LW37D	0411059-09	11/10/04	8260	Benzene	33	0.3	U	ug/L
3992	Bromoform	LW37D	0411059-09	11/10/04	8260	Bromoform	34	1	U	ug/L
3993	Toluene	LW37D	0411059-09	11/10/04	8260	Toluene	35	1	U	ug/L
3994	Ethylbenzene	LW37D	0411059-09	11/10/04	8260	Ethylbenzene	36	1	U	ug/L
3995	Styrene	LW37D	0411059-09	11/10/04	8260	Styrene	37	1	U	ug/L
3996	m,p-Xylene	LW37D	0411059-09	11/10/04	8260	m,p-Xylene	38	2	U	ug/L
3997	o-Xylene	LW37D	0411059-09	11/10/04	8260	o-Xylene	39	1	U	ug/L
3998	1,3,5-Trimethylbenzene	LW37D	0411059-09	11/10/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
3999	1,2,4-Trimethylbenzene	LW37D	0411059-09	11/10/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
4000	Isopropylbenzene	LW37D	0411059-09	11/10/04	8260	Isopropylbenzene	42	1	U	ug/L
4001	n-Propylbenzene	LW37D	0411059-09	11/10/04	8260	n-Propylbenzene	43	1	U	ug/L
4002	tert-Butylbenzene	LW37D	0411059-09	11/10/04	8260	tert-Butylbenzene	44	1	U	ug/L
4003	sec-Butylbenzene	LW37D	0411059-09	11/10/04	8260	sec-Butylbenzene	45	1	U	ug/L
4004	4-Isopropyltoluene	LW37D	0411059-09	11/10/04	8260	4-Isopropyltoluene	46	1	U	ug/L
4005	n-Butylbenzene	LW37D	0411059-09	11/10/04	8260	n-Butylbenzene	47	1	U	ug/L
4006	Naphthalene	LW37D	0411059-09	11/10/04	8260	Naphthalene	48	1	U	ug/L
4007	Methyl tert-butyl ether	LW37D	0411059-09	11/10/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
4008	Diesel Range Hydrocarbons	LW37D	0411059-09	11/10/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	0.25	U	mg/L
4009	Lube Oil	LW37D	0411059-09	11/10/04	NWTPH-Dx	Lube Oil	54	0.5	U	mg/L
4010	Gasoline Range Hydrocarbons	LW37D	0411059-09	11/10/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	0.1	U	ug/L
4011	Arsenic	LW37D	0411059-09	11/10/04	6020	Arsenic	59	**0.00578**		ug/L
4012	Chromium	LW37D	0411059-09	11/10/04	6010	Chromium	60	**0.0261**		mg/L
4013	Copper	LW37D	0411059-09	11/10/04	6010	Copper	61	**0.0196**		mg/L
4014	Lead	LW37D	0411059-09	11/10/04	6020	Lead	62	**0.0098**		ug/L
4015	Nickel	LW37D	0411059-09	11/10/04	6010	Nickel	63	**0.0117**		mg/L

	A	B	C	D	E	F	G	H	I	J
4016	Zinc	LW37D	0411059-09	11/10/04	6010	Zinc	64	**0.0505**		mg/L
4017	Total Dissolved Solids	LW37D	0411059-09	11/10/04	1601	Total Dissolved Solids	74	**90**	J	mg/L
4018	Chloride	LW37D	0411059-09	11/10/04	9056	Chloride	75	**6.91**		mg/L
4019	pH	LW37D	0411059-09	11/10/04	FIELD	pH	82	7.1		s.u.
4020	Temperature	LW37D	0411059-09	11/10/04	FIELD	Temperature	83	14.5		c
4021	Conductivity	LW37D	0411059-09	11/10/04	FIELD	Conductivity	84	79		us
4022	Dissolved oxygen	LW37D	0411059-09	11/10/04	FIELD	Dissolved oxygen	85	2.19		mg/l
4023	Naphthalene	LW37D	0411059-09	11/10/04	8270SIM	Naphthalene	119	0.054	U	ug/L
4024	Acenaphthylene	LW37D	0411059-09	11/10/04	8270SIM	Acenaphthylene	121	0.054	U	ug/L
4025	Acenaphthene	LW37D	0411059-09	11/10/04	8270SIM	Acenaphthene	122	0.054	U	ug/L
4026	Fluorene	LW37D	0411059-09	11/10/04	8270SIM	Fluorene	123	0.054	U	ug/L
4027	Anthracene	LW37D	0411059-09	11/10/04	8270SIM	Anthracene	124	0.054	U	ug/L
4028	1,1,1,2-Tetrachloroethane	LW37D	0411059-09	11/10/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
4029	1,1,1-Trichloroethane	LW37D	0411059-09	11/10/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
4030	1,1,2,2-Tetrachloroethane	LW37D	0411059-09	11/10/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
4031	1,1,2-Trichloroethane	LW37D	0411059-09	11/10/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
4032	1,1-Dichloroethane	LW37D	0411059-09	11/10/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
4033	1,1-Dichloroethene	LW37D	0411059-09	11/10/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
4034	1,1-Dichloropropene	LW37D	0411059-09	11/10/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
4035	1,2,3-Trichlorobenzene	LW37D	0411059-09	11/10/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
4036	1,2,3-Trichloropropane	LW37D	0411059-09	11/10/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
4037	1,2,4-Trichlorobenzene	LW37D	0411059-09	11/10/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
4038	1,2-Dibromo-3-chloropropane	LW37D	0411059-09	11/10/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
4039	1,2-Dibromoethane	LW37D	0411059-09	11/10/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
4040	1,2-Dichlorobenzene	LW37D	0411059-09	11/10/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
4041	1,2-Dichloroethane	LW37D	0411059-09	11/10/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
4042	1,2-Dichloropropane	LW37D	0411059-09	11/10/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
4043	1,3-Dichlorobenzene	LW37D	0411059-09	11/10/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
4044	1,3-Dichloropropane	LW37D	0411059-09	11/10/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
4045	1,4-Dichlorobenzene	LW37D	0411059-09	11/10/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
4046	2,2-Dichloropropane	LW37D	0411059-09	11/10/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
4047	2-Chlorotoluene	LW37D	0411059-09	11/10/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
4048	2-Hexanone	LW37D	0411059-09	11/10/04	8260	2-Hexanone	#N/A	10	U	ug/L
4049	4-Chlorotoluene	LW37D	0411059-09	11/10/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
4050	4-Methyl-2-pentanone	LW37D	0411059-09	11/10/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
4051	Acrylonitrile	LW37D	0411059-09	11/10/04	8260	Acrylonitrile	#N/A	5	U	ug/L
4052	Bromobenzene	LW37D	0411059-09	11/10/04	8260	Bromobenzene	#N/A	1	U	ug/L
4053	Bromochloromethane	LW37D	0411059-09	11/10/04	8260	Bromochloromethane	#N/A	1	U	ug/L
4054	Bromodichloromethane	LW37D	0411059-09	11/10/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
4055	Bromomethane	LW37D	0411059-09	11/10/04	8260	Bromomethane	#N/A	1	U	ug/L
4056	Carbon tetrachloride	LW37D	0411059-09	11/10/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
4057	Chlorobenzene	LW37D	0411059-09	11/10/04	8260	Chlorobenzene	#N/A	1	U	ug/L
4058	Chloroethane	LW37D	0411059-09	11/10/04	8260	Chloroethane	#N/A	1	U	ug/L
4059	Chloroform	LW37D	0411059-09	11/10/04	8260	Chloroform	#N/A	1	U	ug/L
4060	Chloromethane	LW37D	0411059-09	11/10/04	8260	Chloromethane	#N/A	1	U	ug/L
4061	cis-1,2-Dichloroethene	LW37D	0411059-09	11/10/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
4062	cis-1,3-Dichloropropene	LW37D	0411059-09	11/10/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
4063	Dibromochloromethane	LW37D	0411059-09	11/10/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
4064	Dibromomethane	LW37D	0411059-09	11/10/04	8260	Dibromomethane	#N/A	1	U	ug/L
4065	Dichlorodifluoromethane	LW37D	0411059-09	11/10/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
4066	Hexachlorobutadiene	LW37D	0411059-09	11/10/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
4067	Methylene chloride	LW37D	0411059-09	11/10/04	8260	Methylene chloride	#N/A	20	U	ug/L
4068	Tetrachloroethene	LW37D	0411059-09	11/10/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
4069	trans-1,2-Dichloroethene	LW37D	0411059-09	11/10/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
4070	trans-1,3-Dichloropropene	LW37D	0411059-09	11/10/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
4071	Trichloroethene	LW37D	0411059-09	11/10/04	8260	Trichloroethene	#N/A	1	U	ug/L
4072	Trichlorofluoromethane	LW37D	0411059-09	11/10/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
4073	Vinyl chloride	LW37D	0411059-09	11/10/04	8260	Vinyl chloride	#N/A	1	U	ug/L
4074	1,2,4-Trichlorobenzene	LW37D	0411059-09	11/10/04	8270	1,2,4-Trichlorobenzene	#N/A	1.01	U	ug/L
4075	1,2-Dichlorobenzene	LW37D	0411059-09	11/10/04	8270	1,2-Dichlorobenzene	#N/A	1.01	U	ug/L
4076	1,3-Dichlorobenzene	LW37D	0411059-09	11/10/04	8270	1,3-Dichlorobenzene	#N/A	1.01	U	ug/L
4077	1,4-Dichlorobenzene	LW37D	0411059-09	11/10/04	8270	1,4-Dichlorobenzene	#N/A	1.01	U	ug/L
4078	2,4-Dichlorophenol	LW37D	0411059-09	11/10/04	8270	2,4-Dichlorophenol	#N/A	3.04	U	ug/L
4079	2,4-Dinitrophenol	LW37D	0411059-09	11/10/04	8270	2,4-Dinitrophenol	#N/A	10.1	U	ug/L
4080	2,4-Dinitrotoluene	LW37D	0411059-09	11/10/04	8270	2,4-Dinitrotoluene	#N/A	5.07	U	ug/L
4081	2,6-Dinitrotoluene	LW37D	0411059-09	11/10/04	8270	2,6-Dinitrotoluene	#N/A	5.07	U	ug/L
4082	2-Chloronaphthalene	LW37D	0411059-09	11/10/04	8270	2-Chloronaphthalene	#N/A	1.01	U	ug/L
4083	2-Chlorophenol	LW37D	0411059-09	11/10/04	8270	2-Chlorophenol	#N/A	1.01	U	ug/L
4084	2-Methylphenol	LW37D	0411059-09	11/10/04	8270	2-Methylphenol	#N/A	2.03	U	ug/L
4085	2-Nitroaniline	LW37D	0411059-09	11/10/04	8270	2-Nitroaniline	#N/A	5.07	U	ug/L
4086	2-Nitrophenol	LW37D	0411059-09	11/10/04	8270	2-Nitrophenol	#N/A	5.07	U	ug/L
4087	3,3'-Dichlorobenzidine	LW37D	0411059-09	11/10/04	8270	3,3'-Dichlorobenzidine	#N/A	5.07	U	ug/L
4088	3-Nitroaniline	LW37D	0411059-09	11/10/04	8270	3-Nitroaniline	#N/A	6.09	U	ug/L

	A	B	C	D	E	F	G	H	I	J
4089	4,6-Dinitro-2-methylphenol	LW37D	0411059-09	11/10/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.1	U	ug/L
4090	4-Bromophenyl phenyl ether	LW37D	0411059-09	11/10/04	8270	4-Bromophenyl phenyl ether	#N/A	1.01	U	ug/L
4091	4-Chloro-3-methylphenol	LW37D	0411059-09	11/10/04	8270	4-Chloro-3-methylphenol	#N/A	2.03	U	ug/L
4092	4-Chloroaniline	LW37D	0411059-09	11/10/04	8270	4-Chloroaniline	#N/A	3.04	U	ug/L
4093	4-Chlorophenyl phenyl ether	LW37D	0411059-09	11/10/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.01	U	ug/L
4094	4-Nitroaniline	LW37D	0411059-09	11/10/04	8270	4-Nitroaniline	#N/A	5.07	U	ug/L
4095	4-Nitrophenol	LW37D	0411059-09	11/10/04	8270	4-Nitrophenol	#N/A	5.07	U	ug/L
4096	Benz(a)anthracene	LW37D	0411059-09	11/10/04	8270	Benz(a)anthracene	#N/A	1.01	U	ug/L
4097	Benzo(a)pyrene	LW37D	0411059-09	11/10/04	8270	Benzo(a)pyrene	#N/A	1.01	U	ug/L
4098	Benzo(b)fluoranthene	LW37D	0411059-09	11/10/04	8270	Benzo(b)fluoranthene	#N/A	1.01	U	ug/L
4099	Benzo(g,h,i)perylene	LW37D	0411059-09	11/10/04	8270	Benzo(g,h,i)perylene	#N/A	1.01	U	ug/L
4100	Benzo(k)fluoranthene	LW37D	0411059-09	11/10/04	8270	Benzo(k)fluoranthene	#N/A	1.01	U	ug/L
4101	Benzyl Alcohol	LW37D	0411059-09	11/10/04	8270	Benzyl Alcohol	#N/A	5.07	U	ug/L
4102	Bis(2-chloroethoxy)methane	LW37D	0411059-09	11/10/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.01	U	ug/L
4103	Bis(2-chloroethyl)ether	LW37D	0411059-09	11/10/04	8270	Bis(2-chloroethyl)ether	#N/A	2.03	U	ug/L
4104	Bis(2-chloroisopropyl)ether	LW37D	0411059-09	11/10/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.01	U	ug/L
4105	Butyl benzyl phthalate	LW37D	0411059-09	11/10/04	8270	Butyl benzyl phthalate	#N/A	1.01	U	ug/L
4106	Carbazole	LW37D	0411059-09	11/10/04	8270	Carbazole	#N/A	1.01	U	ug/L
4107	Chrysene	LW37D	0411059-09	11/10/04	8270	Chrysene	#N/A	1.01	U	ug/L
4108	Dibenz(a,h)anthracene	LW37D	0411059-09	11/10/04	8270	Dibenz(a,h)anthracene	#N/A	1.01	U	ug/L
4109	Diethyl phthalate	LW37D	0411059-09	11/10/04	8270	Diethyl phthalate	#N/A	1.01	U	ug/L
4110	Dimethyl phthalate	LW37D	0411059-09	11/10/04	8270	Dimethyl phthalate	#N/A	1.01	U	ug/L
4111	Di-n-butyl phthalate	LW37D	0411059-09	11/10/04	8270	Di-n-butyl phthalate	#N/A	1.01	U	ug/L
4112	Di-n-octyl phthalate	LW37D	0411059-09	11/10/04	8270	Di-n-octyl phthalate	#N/A	1.01	U	ug/L
4113	Fluoranthene	LW37D	0411059-09	11/10/04	8270	Fluoranthene	#N/A	1.01	U	ug/L
4114	Hexachlorobenzene	LW37D	0411059-09	11/10/04	8270	Hexachlorobenzene	#N/A	1.01	U	ug/L
4115	Hexachlorobutadiene	LW37D	0411059-09	11/10/04	8270	Hexachlorobutadiene	#N/A	2.03	U	ug/L
4116	Hexachlorocyclopentadiene	LW37D	0411059-09	11/10/04	8270	Hexachlorocyclopentadiene	#N/A	5.07	U	ug/L
4117	Hexachloroethane	LW37D	0411059-09	11/10/04	8270	Hexachloroethane	#N/A	2.03	U	ug/L
4118	Indeno(1,2,3-cd)pyrene	LW37D	0411059-09	11/10/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.01	U	ug/L
4119	Nitrobenzene	LW37D	0411059-09	11/10/04	8270	Nitrobenzene	#N/A	1.01	U	ug/L
4120	N-Nitrosodimethylamine	LW37D	0411059-09	11/10/04	8270	N-Nitrosodimethylamine	#N/A	1.01	U	ug/L
4121	N-Nitrosodi-n-propylamine	LW37D	0411059-09	11/10/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.03	U	ug/L
4122	N-Nitrosodiphenylamine	LW37D	0411059-09	11/10/04	8270	N-Nitrosodiphenylamine	#N/A	1.01	U	ug/L
4123	Phenanthrene	LW37D	0411059-09	11/10/04	8270	Phenanthrene	#N/A	1.01	U	ug/L
4124	Pyrene	LW37D	0411059-09	11/10/04	8270	Pyrene	#N/A	1.01	U	ug/L
4125	Pyridine	LW37D	0411059-09	11/10/04	8270	Pyridine	#N/A	5.07	U	ug/L
4126	Benz(a)anthracene	LW37D	0411059-09	11/10/04	8270SIM	Benz(a)anthracene	#N/A	0.054	U	ug/L
4127	Benzo(a)pyrene	LW37D	0411059-09	11/10/04	8270SIM	Benzo(a)pyrene	#N/A	0.054	U	ug/L
4128	Benzo(b)fluoranthene	LW37D	0411059-09	11/10/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.054	U	ug/L
4129	Benzo(g,h,i)perylene	LW37D	0411059-09	11/10/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.054	U	ug/L
4130	Benzo(k)fluoranthene	LW37D	0411059-09	11/10/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.054	U	ug/L
4131	Chrysene	LW37D	0411059-09	11/10/04	8270SIM	Chrysene	#N/A	0.054	U	ug/L
4132	Dibenz(a,h)anthracene	LW37D	0411059-09	11/10/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.054	U	ug/L
4133	Fluoranthene	LW37D	0411059-09	11/10/04	8270SIM	Fluoranthene	#N/A	**0.0756**		ug/L
4134	Indeno(1,2,3-cd)pyrene	LW37D	0411059-09	11/10/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.054	U	ug/L
4135	Phenanthrene	LW37D	0411059-09	11/10/04	8270SIM	Phenanthrene	#N/A	0.054	U	ug/L
4136	Pyrene	LW37D	0411059-09	11/10/04	8270SIM	Pyrene	#N/A	**0.0864**		ug/L
4137	Turbidity	LW37D	0411059-09	11/10/04	FIELD	Turbidity	#N/A	800		ntu
4138	Pentachlorophenol	LW38D	0411059-10	11/10/04	8270	Pentachlorophenol	3	4.92	U	ug/L
4139	Phenol	LW38D	0411059-10	11/10/04	8270	Phenol	13	1.97	U	ug/L
4140	3-&4-Methylphenol	LW38D	0411059-10	11/10/04	8270	3-&4-Methylphenol	14	9.84	U	ug/L
4141	Isophorone	LW38D	0411059-10	11/10/04	8270	Isophorone	15	0.984	U	ug/L
4142	2,4-Dimethylphenol	LW38D	0411059-10	11/10/04	8270	2,4-Dimethylphenol	16	2.95	U	ug/L
4143	Benzoic Acid	LW38D	0411059-10	11/10/04	8270	Benzoic Acid	17	19.7	U	ug/L
4144	Naphthalene	LW38D	0411059-10	11/10/04	8270	Naphthalene	18	0.984	U	ug/L
4145	2-Methylnaphthalene	LW38D	0411059-10	11/10/04	8270	2-Methylnaphthalene	19	0.984	U	ug/L
4146	2,4,6-Trichlorophenol	LW38D	0411059-10	11/10/04	8270	2,4,6-Trichlorophenol	20	4.92	U	ug/L
4147	2,4,5-Trichlorophenol	LW38D	0411059-10	11/10/04	8270	2,4,5-Trichlorophenol	21	4.92	U	ug/L
4148	Acenaphthene	LW38D	0411059-10	11/10/04	8270	Acenaphthene	22	0.984	U	ug/L
4149	Dibenzofuran	LW38D	0411059-10	11/10/04	8270	Dibenzofuran	23	0.984	U	ug/L
4150	Fluorene	LW38D	0411059-10	11/10/04	8270	Fluorene	24	0.984	U	ug/L
4151	Bis(2-ethylhexyl)phthalate	LW38D	0411059-10	11/10/04	8270	Bis(2-ethylhexyl)phthalate	26	0.984	U	ug/L
4152	Acetone	LW38D	0411059-10	11/10/04	8260	Acetone	30	50	U	ug/L
4153	Carbon disulfide	LW38D	0411059-10	11/10/04	8260	Carbon disulfide	31	2	U	ug/L
4154	2-Butanone	LW38D	0411059-10	11/10/04	8260	2-Butanone	32	10	U	ug/L
4155	Benzene	LW38D	0411059-10	11/10/04	8260	Benzene	33	0.3	U	ug/L
4156	Bromoform	LW38D	0411059-10	11/10/04	8260	Bromoform	34	1	U	ug/L
4157	Toluene	LW38D	0411059-10	11/10/04	8260	Toluene	35	1	U	ug/L
4158	Ethylbenzene	LW38D	0411059-10	11/10/04	8260	Ethylbenzene	36	1	U	ug/L
4159	Styrene	LW38D	0411059-10	11/10/04	8260	Styrene	37	1	U	ug/L
4160	m,p-Xylene	LW38D	0411059-10	11/10/04	8260	m,p-Xylene	38	2	U	ug/L
4161	o-Xylene	LW38D	0411059-10	11/10/04	8260	o-Xylene	39	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
4162	1,3,5-Trimethylbenzene	LW38D	0411059-10	11/10/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
4163	1,2,4-Trimethylbenzene	LW38D	0411059-10	11/10/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
4164	Isopropylbenzene	LW38D	0411059-10	11/10/04	8260	Isopropylbenzene	42	1	U	ug/L
4165	n-Propylbenzene	LW38D	0411059-10	11/10/04	8260	n-Propylbenzene	43	1	U	ug/L
4166	tert-Butylbenzene	LW38D	0411059-10	11/10/04	8260	tert-Butylbenzene	44	1	U	ug/L
4167	sec-Butylbenzene	LW38D	0411059-10	11/10/04	8260	sec-Butylbenzene	45	1	U	ug/L
4168	4-Isopropyltoluene	LW38D	0411059-10	11/10/04	8260	4-Isopropyltoluene	46	1	U	ug/L
4169	n-Butylbenzene	LW38D	0411059-10	11/10/04	8260	n-Butylbenzene	47	1	U	ug/L
4170	Naphthalene	LW38D	0411059-10	11/10/04	8260	Naphthalene	48	1	U	ug/L
4171	Methyl tert-butyl ether	LW38D	0411059-10	11/10/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
4172	Diesel Range Hydrocarbons	LW38D	0411059-10	11/10/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.954**		mg/L
4173	Lube Oil	LW38D	0411059-10	11/10/04	NWTPH-Dx	Lube Oil	54	**0.702**		mg/L
4174	Gasoline Range Hydrocarbons	LW38D	0411059-10	11/10/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**0.12**		ug/L
4175	Arsenic	LW38D	0411059-10	11/10/04	6020	Arsenic	59	**0.00867**		ug/L
4176	Chromium	LW38D	0411059-10	11/10/04	6010	Chromium	60	**0.0138**		mg/L
4177	Copper	LW38D	0411059-10	11/10/04	6010	Copper	61	0.01	U	mg/L
4178	Lead	LW38D	0411059-10	11/10/04	6020	Lead	62	0.0002	U	ug/L
4179	Nickel	LW38D	0411059-10	11/10/04	6010	Nickel	63	0.005	U	mg/L
4180	Zinc	LW38D	0411059-10	11/10/04	6010	Zinc	64	0.01	U	mg/L
4181	Total Dissolved Solids	LW38D	0411059-10	11/10/04	1601	Total Dissolved Solids	74	**157**	J	mg/L
4182	Chloride	LW38D	0411059-10	11/10/04	9056	Chloride	75	**6.2**		mg/L
4183	pH	LW38D	0411059-10	11/10/04	FIELD	pH	82	6.84		s.u.
4184	Temperature	LW38D	0411059-10	11/10/04	FIELD	Temperature	83	16.2		c
4185	Conductivity	LW38D	0411059-10	11/10/04	FIELD	Conductivity	84	159		us
4186	Dissolved oxygen	LW38D	0411059-10	11/10/04	FIELD	Dissolved oxygen	85	1.59		mg/l
4187	Naphthalene	LW38D	0411059-10	11/10/04	8270SIM	Naphthalene	119	**0.08**		ug/L
4188	Acenaphthylene	LW38D	0411059-10	11/10/04	8270SIM	Acenaphthylene	121	0.05	U	ug/L
4189	Acenaphthene	LW38D	0411059-10	11/10/04	8270SIM	Acenaphthene	122	**0.12**		ug/L
4190	Fluorene	LW38D	0411059-10	11/10/04	8270SIM	Fluorene	123	**0.19**		ug/L
4191	Anthracene	LW38D	0411059-10	11/10/04	8270SIM	Anthracene	124	0.05	U	ug/L
4192	1,1,1,2-Tetrachloroethane	LW38D	0411059-10	11/10/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
4193	1,1,1-Trichloroethane	LW38D	0411059-10	11/10/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
4194	1,1,2,2-Tetrachloroethane	LW38D	0411059-10	11/10/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
4195	1,1,2-Trichloroethane	LW38D	0411059-10	11/10/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
4196	1,1-Dichloroethane	LW38D	0411059-10	11/10/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
4197	1,1-Dichloroethene	LW38D	0411059-10	11/10/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
4198	1,1-Dichloropropene	LW38D	0411059-10	11/10/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
4199	1,2,3-Trichlorobenzene	LW38D	0411059-10	11/10/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
4200	1,2,3-Trichloropropane	LW38D	0411059-10	11/10/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
4201	1,2,4-Trichlorobenzene	LW38D	0411059-10	11/10/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
4202	1,2-Dibromo-3-chloropropane	LW38D	0411059-10	11/10/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
4203	1,2-Dibromoethane	LW38D	0411059-10	11/10/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
4204	1,2-Dichlorobenzene	LW38D	0411059-10	11/10/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
4205	1,2-Dichloroethane	LW38D	0411059-10	11/10/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
4206	1,2-Dichloropropane	LW38D	0411059-10	11/10/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
4207	1,3-Dichlorobenzene	LW38D	0411059-10	11/10/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
4208	1,3-Dichloropropane	LW38D	0411059-10	11/10/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
4209	1,4-Dichlorobenzene	LW38D	0411059-10	11/10/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
4210	2,2-Dichloropropane	LW38D	0411059-10	11/10/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
4211	2-Chlorotoluene	LW38D	0411059-10	11/10/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
4212	2-Hexanone	LW38D	0411059-10	11/10/04	8260	2-Hexanone	#N/A	10	U	ug/L
4213	4-Chlorotoluene	LW38D	0411059-10	11/10/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
4214	4-Methyl-2-pentanone	LW38D	0411059-10	11/10/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
4215	Acrylonitrile	LW38D	0411059-10	11/10/04	8260	Acrylonitrile	#N/A	5	U	ug/L
4216	Bromobenzene	LW38D	0411059-10	11/10/04	8260	Bromobenzene	#N/A	1	U	ug/L
4217	Bromochloromethane	LW38D	0411059-10	11/10/04	8260	Bromochloromethane	#N/A	1	U	ug/L
4218	Bromodichloromethane	LW38D	0411059-10	11/10/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
4219	Bromomethane	LW38D	0411059-10	11/10/04	8260	Bromomethane	#N/A	1	U	ug/L
4220	Carbon tetrachloride	LW38D	0411059-10	11/10/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
4221	Chlorobenzene	LW38D	0411059-10	11/10/04	8260	Chlorobenzene	#N/A	1	U	ug/L
4222	Chloroethane	LW38D	0411059-10	11/10/04	8260	Chloroethane	#N/A	1	U	ug/L
4223	Chloroform	LW38D	0411059-10	11/10/04	8260	Chloroform	#N/A	1	U	ug/L
4224	Chloromethane	LW38D	0411059-10	11/10/04	8260	Chloromethane	#N/A	1	U	ug/L
4225	cis-1,2-Dichloroethene	LW38D	0411059-10	11/10/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
4226	cis-1,3-Dichloropropene	LW38D	0411059-10	11/10/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
4227	Dibromochloromethane	LW38D	0411059-10	11/10/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
4228	Dibromomethane	LW38D	0411059-10	11/10/04	8260	Dibromomethane	#N/A	1	U	ug/L
4229	Dichlorodifluoromethane	LW38D	0411059-10	11/10/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
4230	Hexachlorobutadiene	LW38D	0411059-10	11/10/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
4231	Methylene chloride	LW38D	0411059-10	11/10/04	8260	Methylene chloride	#N/A	20	U	ug/L
4232	Tetrachloroethene	LW38D	0411059-10	11/10/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
4233	trans-1,2-Dichloroethene	LW38D	0411059-10	11/10/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
4234	trans-1,3-Dichloropropene	LW38D	0411059-10	11/10/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
4235	Trichloroethene	LW38D	0411059-10	11/10/04	8260	Trichloroethene	#N/A	1	U	ug/L
4236	Trichlorofluoromethane	LW38D	0411059-10	11/10/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
4237	Vinyl chloride	LW38D	0411059-10	11/10/04	8260	Vinyl chloride	#N/A	1	U	ug/L
4238	1,2,4-Trichlorobenzene	LW38D	0411059-10	11/10/04	8270	1,2,4-Trichlorobenzene	#N/A	0.984	U	ug/L
4239	1,2-Dichlorobenzene	LW38D	0411059-10	11/10/04	8270	1,2-Dichlorobenzene	#N/A	0.984	U	ug/L
4240	1,3-Dichlorobenzene	LW38D	0411059-10	11/10/04	8270	1,3-Dichlorobenzene	#N/A	0.984	U	ug/L
4241	1,4-Dichlorobenzene	LW38D	0411059-10	11/10/04	8270	1,4-Dichlorobenzene	#N/A	0.984	U	ug/L
4242	2,4-Dichlorophenol	LW38D	0411059-10	11/10/04	8270	2,4-Dichlorophenol	#N/A	2.95	U	ug/L
4243	2,4-Dinitrophenol	LW38D	0411059-10	11/10/04	8270	2,4-Dinitrophenol	#N/A	9.84	U	ug/L
4244	2,4-Dinitrotoluene	LW38D	0411059-10	11/10/04	8270	2,4-Dinitrotoluene	#N/A	4.92	U	ug/L
4245	2,6-Dinitrotoluene	LW38D	0411059-10	11/10/04	8270	2,6-Dinitrotoluene	#N/A	4.92	U	ug/L
4246	2-Chloronaphthalene	LW38D	0411059-10	11/10/04	8270	2-Chloronaphthalene	#N/A	0.984	U	ug/L
4247	2-Chlorophenol	LW38D	0411059-10	11/10/04	8270	2-Chlorophenol	#N/A	0.984	U	ug/L
4248	2-Methylphenol	LW38D	0411059-10	11/10/04	8270	2-Methylphenol	#N/A	1.97	U	ug/L
4249	2-Nitroaniline	LW38D	0411059-10	11/10/04	8270	2-Nitroaniline	#N/A	4.92	U	ug/L
4250	2-Nitrophenol	LW38D	0411059-10	11/10/04	8270	2-Nitrophenol	#N/A	4.92	U	ug/L
4251	3,3'-Dichlorobenzidine	LW38D	0411059-10	11/10/04	8270	3,3'-Dichlorobenzidine	#N/A	4.92	U	ug/L
4252	3-Nitroaniline	LW38D	0411059-10	11/10/04	8270	3-Nitroaniline	#N/A	5.91	U	ug/L
4253	4,6-Dinitro-2-methylphenol	LW38D	0411059-10	11/10/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.84	U	ug/L
4254	4-Bromophenyl phenyl ether	LW38D	0411059-10	11/10/04	8270	4-Bromophenyl phenyl ether	#N/A	0.984	U	ug/L
4255	4-Chloro-3-methylphenol	LW38D	0411059-10	11/10/04	8270	4-Chloro-3-methylphenol	#N/A	1.97	U	ug/L
4256	4-Chloroaniline	LW38D	0411059-10	11/10/04	8270	4-Chloroaniline	#N/A	2.95	U	ug/L
4257	4-Chlorophenyl phenyl ether	LW38D	0411059-10	11/10/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.984	U	ug/L
4258	4-Nitroaniline	LW38D	0411059-10	11/10/04	8270	4-Nitroaniline	#N/A	4.92	U	ug/L
4259	4-Nitrophenol	LW38D	0411059-10	11/10/04	8270	4-Nitrophenol	#N/A	4.92	U	ug/L
4260	Benz(a)anthracene	LW38D	0411059-10	11/10/04	8270	Benz(a)anthracene	#N/A	0.984	U	ug/L
4261	Benzo(a)pyrene	LW38D	0411059-10	11/10/04	8270	Benzo(a)pyrene	#N/A	0.984	U	ug/L
4262	Benzo(b)fluoranthene	LW38D	0411059-10	11/10/04	8270	Benzo(b)fluoranthene	#N/A	0.984	U	ug/L
4263	Benzo(g,h,i)perylene	LW38D	0411059-10	11/10/04	8270	Benzo(g,h,i)perylene	#N/A	0.984	U	ug/L
4264	Benzo(k)fluoranthene	LW38D	0411059-10	11/10/04	8270	Benzo(k)fluoranthene	#N/A	0.984	U	ug/L
4265	Benzyl Alcohol	LW38D	0411059-10	11/10/04	8270	Benzyl Alcohol	#N/A	4.92	U	ug/L
4266	Bis(2-chloroethoxy)methane	LW38D	0411059-10	11/10/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.984	U	ug/L
4267	Bis(2-chloroethyl)ether	LW38D	0411059-10	11/10/04	8270	Bis(2-chloroethyl)ether	#N/A	1.97	U	ug/L
4268	Bis(2-chloroisopropyl)ether	LW38D	0411059-10	11/10/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.984	U	ug/L
4269	Butyl benzyl phthalate	LW38D	0411059-10	11/10/04	8270	Butyl benzyl phthalate	#N/A	0.984	U	ug/L
4270	Carbazole	LW38D	0411059-10	11/10/04	8270	Carbazole	#N/A	0.984	U	ug/L
4271	Chrysene	LW38D	0411059-10	11/10/04	8270	Chrysene	#N/A	0.984	U	ug/L
4272	Dibenz(a,h)anthracene	LW38D	0411059-10	11/10/04	8270	Dibenz(a,h)anthracene	#N/A	0.984	U	ug/L
4273	Diethyl phthalate	LW38D	0411059-10	11/10/04	8270	Diethyl phthalate	#N/A	0.984	U	ug/L
4274	Dimethyl phthalate	LW38D	0411059-10	11/10/04	8270	Dimethyl phthalate	#N/A	0.984	U	ug/L
4275	Di-n-butyl phthalate	LW38D	0411059-10	11/10/04	8270	Di-n-butyl phthalate	#N/A	0.984	U	ug/L
4276	Di-n-octyl phthalate	LW38D	0411059-10	11/10/04	8270	Di-n-octyl phthalate	#N/A	0.984	U	ug/L
4277	Fluoranthene	LW38D	0411059-10	11/10/04	8270	Fluoranthene	#N/A	0.984	U	ug/L
4278	Hexachlorobenzene	LW38D	0411059-10	11/10/04	8270	Hexachlorobenzene	#N/A	0.984	U	ug/L
4279	Hexachlorobutadiene	LW38D	0411059-10	11/10/04	8270	Hexachlorobutadiene	#N/A	1.97	U	ug/L
4280	Hexachlorocyclopentadiene	LW38D	0411059-10	11/10/04	8270	Hexachlorocyclopentadiene	#N/A	4.92	U	ug/L
4281	Hexachloroethane	LW38D	0411059-10	11/10/04	8270	Hexachloroethane	#N/A	1.97	U	ug/L
4282	Indeno(1,2,3-cd)pyrene	LW38D	0411059-10	11/10/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.984	U	ug/L
4283	Nitrobenzene	LW38D	0411059-10	11/10/04	8270	Nitrobenzene	#N/A	0.984	U	ug/L
4284	N-Nitrosodimethylamine	LW38D	0411059-10	11/10/04	8270	N-Nitrosodimethylamine	#N/A	0.984	U	ug/L
4285	N-Nitrosodi-n-propylamine	LW38D	0411059-10	11/10/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.97	U	ug/L
4286	N-Nitrosodiphenylamine	LW38D	0411059-10	11/10/04	8270	N-Nitrosodiphenylamine	#N/A	0.984	U	ug/L
4287	Phenanthrene	LW38D	0411059-10	11/10/04	8270	Phenanthrene	#N/A	0.984	U	ug/L
4288	Pyrene	LW38D	0411059-10	11/10/04	8270	Pyrene	#N/A	0.984	U	ug/L
4289	Pyridine	LW38D	0411059-10	11/10/04	8270	Pyridine	#N/A	4.92	U	ug/L
4290	Benz(a)anthracene	LW38D	0411059-10	11/10/04	8270SIM	Benz(a)anthracene	#N/A	0.05	U	ug/L
4291	Benzo(a)pyrene	LW38D	0411059-10	11/10/04	8270SIM	Benzo(a)pyrene	#N/A	0.05	U	ug/L
4292	Benzo(b)fluoranthene	LW38D	0411059-10	11/10/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.05	U	ug/L
4293	Benzo(g,h,i)perylene	LW38D	0411059-10	11/10/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.05	U	ug/L
4294	Benzo(k)fluoranthene	LW38D	0411059-10	11/10/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.05	U	ug/L
4295	Chrysene	LW38D	0411059-10	11/10/04	8270SIM	Chrysene	#N/A	0.05	U	ug/L
4296	Dibenz(a,h)anthracene	LW38D	0411059-10	11/10/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.05	U	ug/L
4297	Fluoranthene	LW38D	0411059-10	11/10/04	8270SIM	Fluoranthene	#N/A	0.05	U	ug/L
4298	Indeno(1,2,3-cd)pyrene	LW38D	0411059-10	11/10/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.05	U	ug/L
4299	Phenanthrene	LW38D	0411059-10	11/10/04	8270SIM	Phenanthrene	#N/A	0.05	U	ug/L
4300	Pyrene	LW38D	0411059-10	11/10/04	8270SIM	Pyrene	#N/A	0.05	U	ug/L
4301	Turbidity	LW38D	0411059-10	11/10/04	FIELD	Turbidity	#N/A	33		ntu
4302	Pentachlorophenol	LW39D	0411059-11	11/10/04	8270	Pentachlorophenol	3	5.29	U	ug/L
4303	Phenol	LW39D	0411059-11	11/10/04	8270	Phenol	13	2.12	U	ug/L
4304	3-&4-Methylphenol	LW39D	0411059-11	11/10/04	8270	3-&4-Methylphenol	14	10.6	U	ug/L
4305	Isophorone	LW39D	0411059-11	11/10/04	8270	Isophorone	15	1.06	U	ug/L
4306	2,4-Dimethylphenol	LW39D	0411059-11	11/10/04	8270	2,4-Dimethylphenol	16	3.17	U	ug/L
4307	Benzoic Acid	LW39D	0411059-11	11/10/04	8270	Benzoic Acid	17	21.2	U	ug/L

	A	B	C	D	E	F	G	H	I	J
4308	Naphthalene	LW39D	0411059-11	11/10/04	8270	Naphthalene	18	1.06	U	ug/L
4309	2-Methylnaphthalene	LW39D	0411059-11	11/10/04	8270	2-Methylnaphthalene	19	1.06	U	ug/L
4310	2,4,6-Trichlorophenol	LW39D	0411059-11	11/10/04	8270	2,4,6-Trichlorophenol	20	5.29	U	ug/L
4311	2,4,5-Trichlorophenol	LW39D	0411059-11	11/10/04	8270	2,4,5-Trichlorophenol	21	5.29	U	ug/L
4312	Acenaphthene	LW39D	0411059-11	11/10/04	8270	Acenaphthene	22	1.06	U	ug/L
4313	Dibenzofuran	LW39D	0411059-11	11/10/04	8270	Dibenzofuran	23	1.06	U	ug/L
4314	Fluorene	LW39D	0411059-11	11/10/04	8270	Fluorene	24	1.06	U	ug/L
4315	Bis(2-ethylhexyl)phthalate	LW39D	0411059-11	11/10/04	8270	Bis(2-ethylhexyl)phthalate	26	1.06	U	ug/L
4316	Acetone	LW39D	0411059-11	11/10/04	8260	Acetone	30	50	U	ug/L
4317	Carbon disulfide	LW39D	0411059-11	11/10/04	8260	Carbon disulfide	31	2	U	ug/L
4318	2-Butanone	LW39D	0411059-11	11/10/04	8260	2-Butanone	32	10	U	ug/L
4319	Benzene	LW39D	0411059-11	11/10/04	8260	Benzene	33	0.3	U	ug/L
4320	Bromoform	LW39D	0411059-11	11/10/04	8260	Bromoform	34	1	U	ug/L
4321	Toluene	LW39D	0411059-11	11/10/04	8260	Toluene	35	1	U	ug/L
4322	Ethylbenzene	LW39D	0411059-11	11/10/04	8260	Ethylbenzene	36	1	U	ug/L
4323	Styrene	LW39D	0411059-11	11/10/04	8260	Styrene	37	1	U	ug/L
4324	m,p-Xylene	LW39D	0411059-11	11/10/04	8260	m,p-Xylene	38	2	U	ug/L
4325	o-Xylene	LW39D	0411059-11	11/10/04	8260	o-Xylene	39	1	U	ug/L
4326	1,3,5-Trimethylbenzene	LW39D	0411059-11	11/10/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
4327	1,2,4-Trimethylbenzene	LW39D	0411059-11	11/10/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
4328	Isopropylbenzene	LW39D	0411059-11	11/10/04	8260	Isopropylbenzene	42	1	U	ug/L
4329	n-Propylbenzene	LW39D	0411059-11	11/10/04	8260	n-Propylbenzene	43	1	U	ug/L
4330	tert-Butylbenzene	LW39D	0411059-11	11/10/04	8260	tert-Butylbenzene	44	1	U	ug/L
4331	sec-Butylbenzene	LW39D	0411059-11	11/10/04	8260	sec-Butylbenzene	45	1	U	ug/L
4332	4-Isopropyltoluene	LW39D	0411059-11	11/10/04	8260	4-Isopropyltoluene	46	1	U	ug/L
4333	n-Butylbenzene	LW39D	0411059-11	11/10/04	8260	n-Butylbenzene	47	1	U	ug/L
4334	Naphthalene	LW39D	0411059-11	11/10/04	8260	Naphthalene	48	1	U	ug/L
4335	Methyl tert-butyl ether	LW39D	0411059-11	11/10/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
4336	Diesel Range Hydrocarbons	LW39D	0411059-11	11/10/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.455**		mg/L
4337	Lube Oil	LW39D	0411059-11	11/10/04	NWTPH-Dx	Lube Oil	54	**0.52**		mg/L
4338	Gasoline Range Hydrocarbons	LW39D	0411059-11	11/10/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**0.133**		ug/L
4339	Arsenic	LW39D	0411059-11	11/10/04	6020	Arsenic	59	**0.0107**		ug/L
4340	Chromium	LW39D	0411059-11	11/10/04	6010	Chromium	60	**0.0124**		mg/L
4341	Copper	LW39D	0411059-11	11/10/04	6010	Copper	61	0.01	U	mg/L
4342	Lead	LW39D	0411059-11	11/10/04	6020	Lead	62	**0.0003**		ug/L
4343	Nickel	LW39D	0411059-11	11/10/04	6010	Nickel	63	0.005	U	mg/L
4344	Zinc	LW39D	0411059-11	11/10/04	6010	Zinc	64	0.01	U	mg/L
4345	Total Dissolved Solids	LW39D	0411059-11	11/10/04	1601	Total Dissolved Solids	74	**127**	J	mg/L
4346	Chloride	LW39D	0411059-11	11/10/04	9056	Chloride	75	**5.1**		mg/L
4347	pH	LW39D	0411059-11	11/10/04	FIELD	pH	82	6.75		s.u.
4348	Temperature	LW39D	0411059-11	11/10/04	FIELD	Temperature	83	15.8		c
4349	Conductivity	LW39D	0411059-11	11/10/04	FIELD	Conductivity	84	154		us
4350	Dissolved oxygen	LW39D	0411059-11	11/10/04	FIELD	Dissolved oxygen	85	1.91		mg/l
4351	Naphthalene	LW39D	0411059-11	11/10/04	8270SIM	Naphthalene	119	**0.114**		ug/L
4352	Acenaphthylene	LW39D	0411059-11	11/10/04	8270SIM	Acenaphthylene	121	0.0517	U	ug/L
4353	Acenaphthene	LW39D	0411059-11	11/10/04	8270SIM	Acenaphthene	122	**0.145**		ug/L
4354	Fluorene	LW39D	0411059-11	11/10/04	8270SIM	Fluorene	123	0.0517	U	ug/L
4355	Anthracene	LW39D	0411059-11	11/10/04	8270SIM	Anthracene	124	0.0517	U	ug/L
4356	1,1,1,2-Tetrachloroethane	LW39D	0411059-11	11/10/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
4357	1,1,1-Trichloroethane	LW39D	0411059-11	11/10/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
4358	1,1,2,2-Tetrachloroethane	LW39D	0411059-11	11/10/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
4359	1,1,2-Trichloroethane	LW39D	0411059-11	11/10/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
4360	1,1-Dichloroethane	LW39D	0411059-11	11/10/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
4361	1,1-Dichloroethene	LW39D	0411059-11	11/10/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
4362	1,1-Dichloropropene	LW39D	0411059-11	11/10/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
4363	1,2,3-Trichlorobenzene	LW39D	0411059-11	11/10/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
4364	1,2,3-Trichloropropane	LW39D	0411059-11	11/10/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
4365	1,2,4-Trichlorobenzene	LW39D	0411059-11	11/10/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
4366	1,2-Dibromo-3-chloropropane	LW39D	0411059-11	11/10/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
4367	1,2-Dibromoethane	LW39D	0411059-11	11/10/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
4368	1,2-Dichlorobenzene	LW39D	0411059-11	11/10/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
4369	1,2-Dichloroethane	LW39D	0411059-11	11/10/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
4370	1,2-Dichloropropane	LW39D	0411059-11	11/10/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
4371	1,3-Dichlorobenzene	LW39D	0411059-11	11/10/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
4372	1,3-Dichloropropane	LW39D	0411059-11	11/10/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
4373	1,4-Dichlorobenzene	LW39D	0411059-11	11/10/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
4374	2,2-Dichloropropane	LW39D	0411059-11	11/10/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
4375	2-Chlorotoluene	LW39D	0411059-11	11/10/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
4376	2-Hexanone	LW39D	0411059-11	11/10/04	8260	2-Hexanone	#N/A	10	U	ug/L
4377	4-Chlorotoluene	LW39D	0411059-11	11/10/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
4378	4-Methyl-2-pentanone	LW39D	0411059-11	11/10/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
4379	Acrylonitrile	LW39D	0411059-11	11/10/04	8260	Acrylonitrile	#N/A	5	U	ug/L
4380	Bromobenzene	LW39D	0411059-11	11/10/04	8260	Bromobenzene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
4381	Bromochloromethane	LW39D	0411059-11	11/10/04	8260	Bromochloromethane	#N/A	1	U	ug/L
4382	Bromodichloromethane	LW39D	0411059-11	11/10/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
4383	Bromomethane	LW39D	0411059-11	11/10/04	8260	Bromomethane	#N/A	1	U	ug/L
4384	Carbon tetrachloride	LW39D	0411059-11	11/10/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
4385	Chlorobenzene	LW39D	0411059-11	11/10/04	8260	Chlorobenzene	#N/A	1	U	ug/L
4386	Chloroethane	LW39D	0411059-11	11/10/04	8260	Chloroethane	#N/A	1	U	ug/L
4387	Chloroform	LW39D	0411059-11	11/10/04	8260	Chloroform	#N/A	1	U	ug/L
4388	Chloromethane	LW39D	0411059-11	11/10/04	8260	Chloromethane	#N/A	1	U	ug/L
4389	cis-1,2-Dichloroethene	LW39D	0411059-11	11/10/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
4390	cis-1,3-Dichloropropene	LW39D	0411059-11	11/10/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
4391	Dibromochloromethane	LW39D	0411059-11	11/10/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
4392	Dibromomethane	LW39D	0411059-11	11/10/04	8260	Dibromomethane	#N/A	1	U	ug/L
4393	Dichlorodifluoromethane	LW39D	0411059-11	11/10/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
4394	Hexachlorobutadiene	LW39D	0411059-11	11/10/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
4395	Methylene chloride	LW39D	0411059-11	11/10/04	8260	Methylene chloride	#N/A	20	U	ug/L
4396	Tetrachloroethene	LW39D	0411059-11	11/10/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
4397	trans-1,2-Dichloroethene	LW39D	0411059-11	11/10/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
4398	trans-1,3-Dichloropropene	LW39D	0411059-11	11/10/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
4399	Trichloroethene	LW39D	0411059-11	11/10/04	8260	Trichloroethene	#N/A	1	U	ug/L
4400	Trichlorofluoromethane	LW39D	0411059-11	11/10/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
4401	Vinyl chloride	LW39D	0411059-11	11/10/04	8260	Vinyl chloride	#N/A	1	U	ug/L
4402	1,2,4-Trichlorobenzene	LW39D	0411059-11	11/10/04	8270	1,2,4-Trichlorobenzene	#N/A	1.06	U	ug/L
4403	1,2-Dichlorobenzene	LW39D	0411059-11	11/10/04	8270	1,2-Dichlorobenzene	#N/A	1.06	U	ug/L
4404	1,3-Dichlorobenzene	LW39D	0411059-11	11/10/04	8270	1,3-Dichlorobenzene	#N/A	1.06	U	ug/L
4405	1,4-Dichlorobenzene	LW39D	0411059-11	11/10/04	8270	1,4-Dichlorobenzene	#N/A	1.06	U	ug/L
4406	2,4-Dichlorophenol	LW39D	0411059-11	11/10/04	8270	2,4-Dichlorophenol	#N/A	3.17	U	ug/L
4407	2,4-Dinitrophenol	LW39D	0411059-11	11/10/04	8270	2,4-Dinitrophenol	#N/A	10.6	U	ug/L
4408	2,4-Dinitrotoluene	LW39D	0411059-11	11/10/04	8270	2,4-Dinitrotoluene	#N/A	5.29	U	ug/L
4409	2,6-Dinitrotoluene	LW39D	0411059-11	11/10/04	8270	2,6-Dinitrotoluene	#N/A	5.29	U	ug/L
4410	2-Chloronaphthalene	LW39D	0411059-11	11/10/04	8270	2-Chloronaphthalene	#N/A	1.06	U	ug/L
4411	2-Chlorophenol	LW39D	0411059-11	11/10/04	8270	2-Chlorophenol	#N/A	1.06	U	ug/L
4412	2-Methylphenol	LW39D	0411059-11	11/10/04	8270	2-Methylphenol	#N/A	2.12	U	ug/L
4413	2-Nitroaniline	LW39D	0411059-11	11/10/04	8270	2-Nitroaniline	#N/A	5.29	U	ug/L
4414	2-Nitrophenol	LW39D	0411059-11	11/10/04	8270	2-Nitrophenol	#N/A	5.29	U	ug/L
4415	3,3'-Dichlorobenzidine	LW39D	0411059-11	11/10/04	8270	3,3'-Dichlorobenzidine	#N/A	5.29	U	ug/L
4416	3-Nitroaniline	LW39D	0411059-11	11/10/04	8270	3-Nitroaniline	#N/A	6.35	U	ug/L
4417	4,6-Dinitro-2-methylphenol	LW39D	0411059-11	11/10/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.6	U	ug/L
4418	4-Bromophenyl phenyl ether	LW39D	0411059-11	11/10/04	8270	4-Bromophenyl phenyl ether	#N/A	1.06	U	ug/L
4419	4-Chloro-3-methylphenol	LW39D	0411059-11	11/10/04	8270	4-Chloro-3-methylphenol	#N/A	2.12	U	ug/L
4420	4-Chloroaniline	LW39D	0411059-11	11/10/04	8270	4-Chloroaniline	#N/A	3.17	U	ug/L
4421	4-Chlorophenyl phenyl ether	LW39D	0411059-11	11/10/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.06	U	ug/L
4422	4-Nitroaniline	LW39D	0411059-11	11/10/04	8270	4-Nitroaniline	#N/A	5.29	U	ug/L
4423	4-Nitrophenol	LW39D	0411059-11	11/10/04	8270	4-Nitrophenol	#N/A	5.29	U	ug/L
4424	Benz(a)anthracene	LW39D	0411059-11	11/10/04	8270	Benz(a)anthracene	#N/A	1.06	U	ug/L
4425	Benzo(a)pyrene	LW39D	0411059-11	11/10/04	8270	Benzo(a)pyrene	#N/A	1.06	U	ug/L
4426	Benzo(b)fluoranthene	LW39D	0411059-11	11/10/04	8270	Benzo(b)fluoranthene	#N/A	1.06	U	ug/L
4427	Benzo(g,h,i)perylene	LW39D	0411059-11	11/10/04	8270	Benzo(g,h,i)perylene	#N/A	1.06	U	ug/L
4428	Benzo(k)fluoranthene	LW39D	0411059-11	11/10/04	8270	Benzo(k)fluoranthene	#N/A	1.06	U	ug/L
4429	Benzyl Alcohol	LW39D	0411059-11	11/10/04	8270	Benzyl Alcohol	#N/A	5.29	U	ug/L
4430	Bis(2-chloroethoxy)methane	LW39D	0411059-11	11/10/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.06	U	ug/L
4431	Bis(2-chloroethyl)ether	LW39D	0411059-11	11/10/04	8270	Bis(2-chloroethyl)ether	#N/A	2.12	U	ug/L
4432	Bis(2-chloroisopropyl)ether	LW39D	0411059-11	11/10/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.06	U	ug/L
4433	Butyl benzyl phthalate	LW39D	0411059-11	11/10/04	8270	Butyl benzyl phthalate	#N/A	1.06	U	ug/L
4434	Carbazole	LW39D	0411059-11	11/10/04	8270	Carbazole	#N/A	1.06	U	ug/L
4435	Chrysene	LW39D	0411059-11	11/10/04	8270	Chrysene	#N/A	1.06	U	ug/L
4436	Dibenz(a,h)anthracene	LW39D	0411059-11	11/10/04	8270	Dibenz(a,h)anthracene	#N/A	1.06	U	ug/L
4437	Diethyl phthalate	LW39D	0411059-11	11/10/04	8270	Diethyl phthalate	#N/A	1.06	U	ug/L
4438	Dimethyl phthalate	LW39D	0411059-11	11/10/04	8270	Dimethyl phthalate	#N/A	1.06	U	ug/L
4439	Di-n-butyl phthalate	LW39D	0411059-11	11/10/04	8270	Di-n-butyl phthalate	#N/A	1.06	U	ug/L
4440	Di-n-octyl phthalate	LW39D	0411059-11	11/10/04	8270	Di-n-octyl phthalate	#N/A	1.06	U	ug/L
4441	Fluoranthene	LW39D	0411059-11	11/10/04	8270	Fluoranthene	#N/A	1.06	U	ug/L
4442	Hexachlorobenzene	LW39D	0411059-11	11/10/04	8270	Hexachlorobenzene	#N/A	1.06	U	ug/L
4443	Hexachlorobutadiene	LW39D	0411059-11	11/10/04	8270	Hexachlorobutadiene	#N/A	2.12	U	ug/L
4444	Hexachlorocyclopentadiene	LW39D	0411059-11	11/10/04	8270	Hexachlorocyclopentadiene	#N/A	5.29	U	ug/L
4445	Hexachloroethane	LW39D	0411059-11	11/10/04	8270	Hexachloroethane	#N/A	2.12	U	ug/L
4446	Indeno(1,2,3-cd)pyrene	LW39D	0411059-11	11/10/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.06	U	ug/L
4447	Nitrobenzene	LW39D	0411059-11	11/10/04	8270	Nitrobenzene	#N/A	1.06	U	ug/L
4448	N-Nitrosodimethylamine	LW39D	0411059-11	11/10/04	8270	N-Nitrosodimethylamine	#N/A	1.06	U	ug/L
4449	N-Nitrosodi-n-propylamine	LW39D	0411059-11	11/10/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.12	U	ug/L
4450	N-Nitrosodiphenylamine	LW39D	0411059-11	11/10/04	8270	N-Nitrosodiphenylamine	#N/A	1.06	U	ug/L
4451	Phenanthrene	LW39D	0411059-11	11/10/04	8270	Phenanthrene	#N/A	1.06	U	ug/L
4452	Pyrene	LW39D	0411059-11	11/10/04	8270	Pyrene	#N/A	1.06	U	ug/L
4453	Pyridine	LW39D	0411059-11	11/10/04	8270	Pyridine	#N/A	5.29	U	ug/L

	A	B	C	D	E	F	G	H	I	J
4454	Benz(a)anthracene	LW39D	0411059-11	11/10/04	8270SIM	Benz(a)anthracene	#N/A	0.0517	U	ug/L
4455	Benzo(a)pyrene	LW39D	0411059-11	11/10/04	8270SIM	Benzo(a)pyrene	#N/A	0.0517	U	ug/L
4456	Benzo(b)fluoranthene	LW39D	0411059-11	11/10/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0517	U	ug/L
4457	Benzo(g,h,i)perylene	LW39D	0411059-11	11/10/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0517	U	ug/L
4458	Benzo(k)fluoranthene	LW39D	0411059-11	11/10/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0517	U	ug/L
4459	Chrysene	LW39D	0411059-11	11/10/04	8270SIM	Chrysene	#N/A	0.0517	U	ug/L
4460	Dibenz(a,h)anthracene	LW39D	0411059-11	11/10/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0517	U	ug/L
4461	Fluoranthene	LW39D	0411059-11	11/10/04	8270SIM	Fluoranthene	#N/A	0.0517	U	ug/L
4462	Indeno(1,2,3-cd)pyrene	LW39D	0411059-11	11/10/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0517	U	ug/L
4463	Phenanthrene	LW39D	0411059-11	11/10/04	8270SIM	Phenanthrene	#N/A	0.0517	U	ug/L
4464	Pyrene	LW39D	0411059-11	11/10/04	8270SIM	Pyrene	#N/A	0.0517	U	ug/L
4465	Turbidity	LW39D	0411059-11	11/10/04	FIELD	Turbidity	#N/A	31		ntu
4466	Pentachlorophenol	LW40D	0411150-01	11/29/04	8270	Pentachlorophenol	3	5.32	U	ug/L
4467	Phenol	LW40D	0411150-01	11/29/04	8270	Phenol	13	2.13	U	ug/L
4468	3-&4-Methylphenol	LW40D	0411150-01	11/29/04	8270	3-&4-Methylphenol	14	10.6	U	ug/L
4469	Isophorone	LW40D	0411150-01	11/29/04	8270	Isophorone	15	1.06	U	ug/L
4470	2,4-Dimethylphenol	LW40D	0411150-01	11/29/04	8270	2,4-Dimethylphenol	16	3.19	U	ug/L
4471	Benzoic Acid	LW40D	0411150-01	11/29/04	8270	Benzoic Acid	17	21.3	U	ug/L
4472	Naphthalene	LW40D	0411150-01	11/29/04	8270	Naphthalene	18	1.06	U	ug/L
4473	2-Methylnaphthalene	LW40D	0411150-01	11/29/04	8270	2-Methylnaphthalene	19	1.06	U	ug/L
4474	2,4,6-Trichlorophenol	LW40D	0411150-01	11/29/04	8270	2,4,6-Trichlorophenol	20	5.32	U	ug/L
4475	2,4,5-Trichlorophenol	LW40D	0411150-01	11/29/04	8270	2,4,5-Trichlorophenol	21	5.32	U	ug/L
4476	Acenaphthene	LW40D	0411150-01	11/29/04	8270	Acenaphthene	22	1.06	U	ug/L
4477	Dibenzofuran	LW40D	0411150-01	11/29/04	8270	Dibenzofuran	23	1.06	U	ug/L
4478	Fluorene	LW40D	0411150-01	11/29/04	8270	Fluorene	24	1.06	U	ug/L
4479	Bis(2-ethylhexyl)phthalate	LW40D	0411150-01	11/29/04	8270	Bis(2-ethylhexyl)phthalate	26	1.06	U	ug/L
4480	Acetone	LW40D	0411150-01	11/29/04	8260	Acetone	30	50	U	ug/L
4481	Carbon disulfide	LW40D	0411150-01	11/29/04	8260	Carbon disulfide	31	2	U	ug/L
4482	2-Butanone	LW40D	0411150-01	11/29/04	8260	2-Butanone	32	10	U	ug/L
4483	Benzene	LW40D	0411150-01	11/29/04	8260	Benzene	33	0.3	U	ug/L
4484	Bromoform	LW40D	0411150-01	11/29/04	8260	Bromoform	34	1	U	ug/L
4485	Toluene	LW40D	0411150-01	11/29/04	8260	Toluene	35	1	U	ug/L
4486	Ethylbenzene	LW40D	0411150-01	11/29/04	8260	Ethylbenzene	36	1	U	ug/L
4487	Styrene	LW40D	0411150-01	11/29/04	8260	Styrene	37	1	U	ug/L
4488	m,p-Xylene	LW40D	0411150-01	11/29/04	8260	m,p-Xylene	38	2	U	ug/L
4489	o-Xylene	LW40D	0411150-01	11/29/04	8260	o-Xylene	39	1	U	ug/L
4490	1,3,5-Trimethylbenzene	LW40D	0411150-01	11/29/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
4491	1,2,4-Trimethylbenzene	LW40D	0411150-01	11/29/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
4492	Isopropylbenzene	LW40D	0411150-01	11/29/04	8260	Isopropylbenzene	42	1	U	ug/L
4493	n-Propylbenzene	LW40D	0411150-01	11/29/04	8260	n-Propylbenzene	43	1	U	ug/L
4494	tert-Butylbenzene	LW40D	0411150-01	11/29/04	8260	tert-Butylbenzene	44	1	U	ug/L
4495	sec-Butylbenzene	LW40D	0411150-01	11/29/04	8260	sec-Butylbenzene	45	1	U	ug/L
4496	4-Isopropyltoluene	LW40D	0411150-01	11/29/04	8260	4-Isopropyltoluene	46	1	U	ug/L
4497	n-Butylbenzene	LW40D	0411150-01	11/29/04	8260	n-Butylbenzene	47	1	U	ug/L
4498	Naphthalene	LW40D	0411150-01	11/29/04	8260	Naphthalene	48	1	U	ug/L
4499	Methyl tert-butyl ether	LW40D	0411150-01	11/29/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
4500	Diesel Range Hydrocarbons	LW40D	0411150-01	11/29/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.263**		mg/L
4501	Lube Oil	LW40D	0411150-01	11/29/04	NWTPH-Dx	Lube Oil	54	**0.672**		mg/L
4502	Gasoline Range Hydrocarbons	LW40D	0411150-01	11/29/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	0.1	U	ug/L
4503	Arsenic	LW40D	0411150-01	11/29/04	6020	Arsenic	59	**0.00411**		ug/L
4504	Chromium	LW40D	0411150-01	11/29/04	6010	Chromium	60	**0.0071**		mg/L
4505	Copper	LW40D	0411150-01	11/29/04	6010	Copper	61	0.01	U	mg/L
4506	Lead	LW40D	0411150-01	11/29/04	6020	Lead	62	**0.00167**		ug/L
4507	Nickel	LW40D	0411150-01	11/29/04	6010	Nickel	63	**0.0211**		mg/L
4508	Zinc	LW40D	0411150-01	11/29/04	6010	Zinc	64	**0.206**		mg/L
4509	Total Dissolved Solids	LW40D	0411150-01	11/29/04	1601	Total Dissolved Solids	74	**200**		mg/L
4510	Chloride	LW40D	0411150-01	11/29/04	9056	Chloride	75	**2.42**		mg/L
4511	pH	LW40D	0411150-01	11/29/04	FIELD	pH	82	6.1		s.u.
4512	Temperature	LW40D	0411150-01	11/29/04	FIELD	Temperature	83	1.8		c
4513	Conductivity	LW40D	0411150-01	11/29/04	FIELD	Conductivity	84	207		us
4514	Dissolved oxygen	LW40D	0411150-01	11/29/04	FIELD	Dissolved oxygen	85	999		mg/l
4515	Naphthalene	LW40D	0411150-01	11/29/04	8270SIM	Naphthalene	119	0.09	U	ug/L
4516	Acenaphthylene	LW40D	0411150-01	11/29/04	8270SIM	Acenaphthylene	121	0.05	U	ug/L
4517	Acenaphthene	LW40D	0411150-01	11/29/04	8270SIM	Acenaphthene	122	0.05	U	ug/L
4518	Fluorene	LW40D	0411150-01	11/29/04	8270SIM	Fluorene	123	0.05	U	ug/L
4519	Anthracene	LW40D	0411150-01	11/29/04	8270SIM	Anthracene	124	0.05	U	ug/L
4520	1,1,1,2-Tetrachloroethane	LW40D	0411150-01	11/29/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
4521	1,1,1-Trichloroethane	LW40D	0411150-01	11/29/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
4522	1,1,2,2-Tetrachloroethane	LW40D	0411150-01	11/29/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
4523	1,1,2-Trichloroethane	LW40D	0411150-01	11/29/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
4524	1,1-Dichloroethane	LW40D	0411150-01	11/29/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
4525	1,1-Dichloroethene	LW40D	0411150-01	11/29/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
4526	1,1-Dichloropropene	LW40D	0411150-01	11/29/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
4527	1,2,3-Trichlorobenzene	LW40D	0411150-01	11/29/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
4528	1,2,3-Trichloropropane	LW40D	0411150-01	11/29/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
4529	1,2,4-Trichlorobenzene	LW40D	0411150-01	11/29/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
4530	1,2-Dibromo-3-chloropropane	LW40D	0411150-01	11/29/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
4531	1,2-Dibromoethane	LW40D	0411150-01	11/29/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
4532	1,2-Dichlorobenzene	LW40D	0411150-01	11/29/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
4533	1,2-Dichloroethane	LW40D	0411150-01	11/29/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
4534	1,2-Dichloropropane	LW40D	0411150-01	11/29/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
4535	1,3-Dichlorobenzene	LW40D	0411150-01	11/29/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
4536	1,3-Dichloropropane	LW40D	0411150-01	11/29/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
4537	1,4-Dichlorobenzene	LW40D	0411150-01	11/29/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
4538	2,2-Dichloropropane	LW40D	0411150-01	11/29/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
4539	2-Chlorotoluene	LW40D	0411150-01	11/29/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
4540	2-Hexanone	LW40D	0411150-01	11/29/04	8260	2-Hexanone	#N/A	10	U	ug/L
4541	4-Chlorotoluene	LW40D	0411150-01	11/29/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
4542	4-Methyl-2-pentanone	LW40D	0411150-01	11/29/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
4543	Acrylonitrile	LW40D	0411150-01	11/29/04	8260	Acrylonitrile	#N/A	5	U	ug/L
4544	Bromobenzene	LW40D	0411150-01	11/29/04	8260	Bromobenzene	#N/A	1	U	ug/L
4545	Bromochloromethane	LW40D	0411150-01	11/29/04	8260	Bromochloromethane	#N/A	1	U	ug/L
4546	Bromodichloromethane	LW40D	0411150-01	11/29/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
4547	Bromomethane	LW40D	0411150-01	11/29/04	8260	Bromomethane	#N/A	1	U	ug/L
4548	Carbon tetrachloride	LW40D	0411150-01	11/29/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
4549	Chlorobenzene	LW40D	0411150-01	11/29/04	8260	Chlorobenzene	#N/A	1	U	ug/L
4550	Chloroethane	LW40D	0411150-01	11/29/04	8260	Chloroethane	#N/A	1	U	ug/L
4551	Chloroform	LW40D	0411150-01	11/29/04	8260	Chloroform	#N/A	1	U	ug/L
4552	Chloromethane	LW40D	0411150-01	11/29/04	8260	Chloromethane	#N/A	1	U	ug/L
4553	cis-1,2-Dichloroethene	LW40D	0411150-01	11/29/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
4554	cis-1,3-Dichloropropene	LW40D	0411150-01	11/29/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
4555	Dibromochloromethane	LW40D	0411150-01	11/29/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
4556	Dibromomethane	LW40D	0411150-01	11/29/04	8260	Dibromomethane	#N/A	1	U	ug/L
4557	Dichlorodifluoromethane	LW40D	0411150-01	11/29/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
4558	Hexachlorobutadiene	LW40D	0411150-01	11/29/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
4559	Methylene chloride	LW40D	0411150-01	11/29/04	8260	Methylene chloride	#N/A	20	U	ug/L
4560	Tetrachloroethene	LW40D	0411150-01	11/29/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
4561	trans-1,2-Dichloroethene	LW40D	0411150-01	11/29/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
4562	trans-1,3-Dichloropropene	LW40D	0411150-01	11/29/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
4563	Trichloroethene	LW40D	0411150-01	11/29/04	8260	Trichloroethene	#N/A	1	U	ug/L
4564	Trichlorofluoromethane	LW40D	0411150-01	11/29/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
4565	Vinyl chloride	LW40D	0411150-01	11/29/04	8260	Vinyl chloride	#N/A	1	U	ug/L
4566	1,2,4-Trichlorobenzene	LW40D	0411150-01	11/29/04	8270	1,2,4-Trichlorobenzene	#N/A	1.06	U	ug/L
4567	1,2-Dichlorobenzene	LW40D	0411150-01	11/29/04	8270	1,2-Dichlorobenzene	#N/A	1.06	U	ug/L
4568	1,3-Dichlorobenzene	LW40D	0411150-01	11/29/04	8270	1,3-Dichlorobenzene	#N/A	1.06	U	ug/L
4569	1,4-Dichlorobenzene	LW40D	0411150-01	11/29/04	8270	1,4-Dichlorobenzene	#N/A	1.06	U	ug/L
4570	2,4-Dichlorophenol	LW40D	0411150-01	11/29/04	8270	2,4-Dichlorophenol	#N/A	3.19	U	ug/L
4571	2,4-Dinitrophenol	LW40D	0411150-01	11/29/04	8270	2,4-Dinitrophenol	#N/A	10.6	U	ug/L
4572	2,4-Dinitrotoluene	LW40D	0411150-01	11/29/04	8270	2,4-Dinitrotoluene	#N/A	5.32	U	ug/L
4573	2,6-Dinitrotoluene	LW40D	0411150-01	11/29/04	8270	2,6-Dinitrotoluene	#N/A	5.32	U	ug/L
4574	2-Chloronaphthalene	LW40D	0411150-01	11/29/04	8270	2-Chloronaphthalene	#N/A	1.06	U	ug/L
4575	2-Chlorophenol	LW40D	0411150-01	11/29/04	8270	2-Chlorophenol	#N/A	1.06	U	ug/L
4576	2-Methylphenol	LW40D	0411150-01	11/29/04	8270	2-Methylphenol	#N/A	2.13	U	ug/L
4577	2-Nitroaniline	LW40D	0411150-01	11/29/04	8270	2-Nitroaniline	#N/A	5.32	U	ug/L
4578	2-Nitrophenol	LW40D	0411150-01	11/29/04	8270	2-Nitrophenol	#N/A	5.32	U	ug/L
4579	3,3'-Dichlorobenzidine	LW40D	0411150-01	11/29/04	8270	3,3'-Dichlorobenzidine	#N/A	5.32	U	ug/L
4580	3-Nitroaniline	LW40D	0411150-01	11/29/04	8270	3-Nitroaniline	#N/A	6.38	U	ug/L
4581	4,6-Dinitro-2-methylphenol	LW40D	0411150-01	11/29/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.6	U	ug/L
4582	4-Bromophenyl phenyl ether	LW40D	0411150-01	11/29/04	8270	4-Bromophenyl phenyl ether	#N/A	1.06	U	ug/L
4583	4-Chloro-3-methylphenol	LW40D	0411150-01	11/29/04	8270	4-Chloro-3-methylphenol	#N/A	2.13	U	ug/L
4584	4-Chloroaniline	LW40D	0411150-01	11/29/04	8270	4-Chloroaniline	#N/A	3.19	U	ug/L
4585	4-Chlorophenyl phenyl ether	LW40D	0411150-01	11/29/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.06	U	ug/L
4586	4-Nitroaniline	LW40D	0411150-01	11/29/04	8270	4-Nitroaniline	#N/A	5.32	U	ug/L
4587	4-Nitrophenol	LW40D	0411150-01	11/29/04	8270	4-Nitrophenol	#N/A	5.32	U	ug/L
4588	Benz(a)anthracene	LW40D	0411150-01	11/29/04	8270	Benz(a)anthracene	#N/A	1.06	U	ug/L
4589	Benzo(a)pyrene	LW40D	0411150-01	11/29/04	8270	Benzo(a)pyrene	#N/A	1.06	U	ug/L
4590	Benzo(b)fluoranthene	LW40D	0411150-01	11/29/04	8270	Benzo(b)fluoranthene	#N/A	1.06	U	ug/L
4591	Benzo(g,h,i)perylene	LW40D	0411150-01	11/29/04	8270	Benzo(g,h,i)perylene	#N/A	1.06	U	ug/L
4592	Benzo(k)fluoranthene	LW40D	0411150-01	11/29/04	8270	Benzo(k)fluoranthene	#N/A	1.06	U	ug/L
4593	Benzyl Alcohol	LW40D	0411150-01	11/29/04	8270	Benzyl Alcohol	#N/A	5.32	U	ug/L
4594	Bis(2-chloroethoxy)methane	LW40D	0411150-01	11/29/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.06	U	ug/L
4595	Bis(2-chloroethyl)ether	LW40D	0411150-01	11/29/04	8270	Bis(2-chloroethyl)ether	#N/A	2.13	U	ug/L
4596	Bis(2-chloroisopropyl)ether	LW40D	0411150-01	11/29/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.06	U	ug/L
4597	Butyl benzyl phthalate	LW40D	0411150-01	11/29/04	8270	Butyl benzyl phthalate	#N/A	1.06	U	ug/L
4598	Carbazole	LW40D	0411150-01	11/29/04	8270	Carbazole	#N/A	1.06	U	ug/L
4599	Chrysene	LW40D	0411150-01	11/29/04	8270	Chrysene	#N/A	1.06	U	ug/L

	A	B	C	D	E	F	G	H	I	J
4600	Dibenz(a,h)anthracene	LW40D	0411150-01	11/29/04	8270	Dibenz(a,h)anthracene	#N/A	1.06	U	ug/L
4601	Diethyl phthalate	LW40D	0411150-01	11/29/04	8270	Diethyl phthalate	#N/A	1.06	U	ug/L
4602	Dimethyl phthalate	LW40D	0411150-01	11/29/04	8270	Dimethyl phthalate	#N/A	1.06	U	ug/L
4603	Di-n-butyl phthalate	LW40D	0411150-01	11/29/04	8270	Di-n-butyl phthalate	#N/A	1.06	U	ug/L
4604	Di-n-octyl phthalate	LW40D	0411150-01	11/29/04	8270	Di-n-octyl phthalate	#N/A	1.06	U	ug/L
4605	Fluoranthene	LW40D	0411150-01	11/29/04	8270	Fluoranthene	#N/A	1.06	U	ug/L
4606	Hexachlorobenzene	LW40D	0411150-01	11/29/04	8270	Hexachlorobenzene	#N/A	1.06	U	ug/L
4607	Hexachlorobutadiene	LW40D	0411150-01	11/29/04	8270	Hexachlorobutadiene	#N/A	2.13	U	ug/L
4608	Hexachlorocyclopentadiene	LW40D	0411150-01	11/29/04	8270	Hexachlorocyclopentadiene	#N/A	5.32	U	ug/L
4609	Hexachloroethane	LW40D	0411150-01	11/29/04	8270	Hexachloroethane	#N/A	2.13	U	ug/L
4610	Indeno(1,2,3-cd)pyrene	LW40D	0411150-01	11/29/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.06	U	ug/L
4611	Nitrobenzene	LW40D	0411150-01	11/29/04	8270	Nitrobenzene	#N/A	1.06	U	ug/L
4612	N-Nitrosodimethylamine	LW40D	0411150-01	11/29/04	8270	N-Nitrosodimethylamine	#N/A	1.06	U	ug/L
4613	N-Nitrosodi-n-propylamine	LW40D	0411150-01	11/29/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.13	U	ug/L
4614	N-Nitrosodiphenylamine	LW40D	0411150-01	11/29/04	8270	N-Nitrosodiphenylamine	#N/A	1.06	U	ug/L
4615	Phenanthrene	LW40D	0411150-01	11/29/04	8270	Phenanthrene	#N/A	1.06	U	ug/L
4616	Pyrene	LW40D	0411150-01	11/29/04	8270	Pyrene	#N/A	1.06	U	ug/L
4617	Pyridine	LW40D	0411150-01	11/29/04	8270	Pyridine	#N/A	5.32	U	ug/L
4618	Benz(a)anthracene	LW40D	0411150-01	11/29/04	8270SIM	Benz(a)anthracene	#N/A	0.05	U	ug/L
4619	Benzo(a)pyrene	LW40D	0411150-01	11/29/04	8270SIM	Benzo(a)pyrene	#N/A	0.05	U	ug/L
4620	Benzo(b)fluoranthene	LW40D	0411150-01	11/29/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.05	U	ug/L
4621	Benzo(g,h,i)perylene	LW40D	0411150-01	11/29/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.05	U	ug/L
4622	Benzo(k)fluoranthene	LW40D	0411150-01	11/29/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.05	U	ug/L
4623	Chrysene	LW40D	0411150-01	11/29/04	8270SIM	Chrysene	#N/A	0.05	U	ug/L
4624	Dibenz(a,h)anthracene	LW40D	0411150-01	11/29/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.05	U	ug/L
4625	Fluoranthene	LW40D	0411150-01	11/29/04	8270SIM	Fluoranthene	#N/A	0.05	U	ug/L
4626	Indeno(1,2,3-cd)pyrene	LW40D	0411150-01	11/29/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.05	U	ug/L
4627	Phenanthrene	LW40D	0411150-01	11/29/04	8270SIM	Phenanthrene	#N/A	0.05	U	ug/L
4628	Pyrene	LW40D	0411150-01	11/29/04	8270SIM	Pyrene	#N/A	0.05	U	ug/L
4629	Turbidity	LW40D	0411150-01	11/29/04	FIELD	Turbidity	#N/A	1.13		ntu
4630	Pentachlorophenol	LW42S	0411047-06	11/8/04	8270	Pentachlorophenol	3	5.13	U	ug/L
4631	Phenol	LW42S	0411047-06	11/8/04	8270	Phenol	13	2.05	U	ug/L
4632	3-&4-Methylphenol	LW42S	0411047-06	11/8/04	8270	3-&4-Methylphenol	14	10.3	U	ug/L
4633	Isophorone	LW42S	0411047-06	11/8/04	8270	Isophorone	15	1.03	U	ug/L
4634	2,4-Dimethylphenol	LW42S	0411047-06	11/8/04	8270	2,4-Dimethylphenol	16	3.08	U	ug/L
4635	Benzoic Acid	LW42S	0411047-06	11/8/04	8270	Benzoic Acid	17	20.5	U	ug/L
4636	Naphthalene	LW42S	0411047-06	11/8/04	8270	Naphthalene	18	1.03	U	ug/L
4637	2-Methylnaphthalene	LW42S	0411047-06	11/8/04	8270	2-Methylnaphthalene	19	1.03	U	ug/L
4638	2,4,6-Trichlorophenol	LW42S	0411047-06	11/8/04	8270	2,4,6-Trichlorophenol	20	5.13	U	ug/L
4639	2,4,5-Trichlorophenol	LW42S	0411047-06	11/8/04	8270	2,4,5-Trichlorophenol	21	5.13	U	ug/L
4640	Acenaphthene	LW42S	0411047-06	11/8/04	8270	Acenaphthene	22	**1.59**		ug/L
4641	Dibenzofuran	LW42S	0411047-06	11/8/04	8270	Dibenzofuran	23	1.03	U	ug/L
4642	Fluorene	LW42S	0411047-06	11/8/04	8270	Fluorene	24	**3.36**		ug/L
4643	Bis(2-ethylhexyl)phthalate	LW42S	0411047-06	11/8/04	8270	Bis(2-ethylhexyl)phthalate	26	1.03	U	ug/L
4644	Acetone	LW42S	0411047-06	11/8/04	8260	Acetone	30	50	U	ug/L
4645	Carbon disulfide	LW42S	0411047-06	11/8/04	8260	Carbon disulfide	31	2	U	ug/L
4646	2-Butanone	LW42S	0411047-06	11/8/04	8260	2-Butanone	32	10	U	ug/L
4647	Benzene	LW42S	0411047-06	11/8/04	8260	Benzene	33	**1.22**		ug/L
4648	Bromoform	LW42S	0411047-06	11/8/04	8260	Bromoform	34	1	U	ug/L
4649	Toluene	LW42S	0411047-06	11/8/04	8260	Toluene	35	1	U	ug/L
4650	Ethylbenzene	LW42S	0411047-06	11/8/04	8260	Ethylbenzene	36	1	U	ug/L
4651	Styrene	LW42S	0411047-06	11/8/04	8260	Styrene	37	1	U	ug/L
4652	m,p-Xylene	LW42S	0411047-06	11/8/04	8260	m,p-Xylene	38	2	U	ug/L
4653	o-Xylene	LW42S	0411047-06	11/8/04	8260	o-Xylene	39	1	U	ug/L
4654	1,3,5-Trimethylbenzene	LW42S	0411047-06	11/8/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
4655	1,2,4-Trimethylbenzene	LW42S	0411047-06	11/8/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
4656	Isopropylbenzene	LW42S	0411047-06	11/8/04	8260	Isopropylbenzene	42	**8.96**		ug/L
4657	n-Propylbenzene	LW42S	0411047-06	11/8/04	8260	n-Propylbenzene	43	**41.1**		ug/L
4658	tert-Butylbenzene	LW42S	0411047-06	11/8/04	8260	tert-Butylbenzene	44	1	U	ug/L
4659	sec-Butylbenzene	LW42S	0411047-06	11/8/04	8260	sec-Butylbenzene	45	**3.67**		ug/L
4660	4-Isopropyltoluene	LW42S	0411047-06	11/8/04	8260	4-Isopropyltoluene	46	1	U	ug/L
4661	n-Butylbenzene	LW42S	0411047-06	11/8/04	8260	n-Butylbenzene	47	**9.75**		ug/L
4662	Naphthalene	LW42S	0411047-06	11/8/04	8260	Naphthalene	48	1	U	ug/L
4663	Methyl tert-butyl ether	LW42S	0411047-06	11/8/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
4664	Diesel Range Hydrocarbons	LW42S	0411047-06	11/8/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**2.23**		mg/L
4665	Lube Oil	LW42S	0411047-06	11/8/04	NWTPH-Dx	Lube Oil	54	0.505	U	mg/L
4666	Gasoline Range Hydrocarbons	LW42S	0411047-06	11/8/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**1.72**		ug/L
4667	Arsenic	LW42S	0411047-06	11/8/04	6020	Arsenic	59	**0.0152**		ug/L
4668	Chromium	LW42S	0411047-06	11/8/04	6010	Chromium	60	**0.0215**		mg/L
4669	Copper	LW42S	0411047-06	11/8/04	6010	Copper	61	0.01	U	mg/L
4670	Lead	LW42S	0411047-06	11/8/04	6020	Lead	62	**0.00336**		ug/L
4671	Nickel	LW42S	0411047-06	11/8/04	6010	Nickel	63	0.005	U	mg/L
4672	Zinc	LW42S	0411047-06	11/8/04	6010	Zinc	64	0.01	U	mg/L

	A	B	C	D	E	F	G	H	I	J
4673	Total Dissolved Solids	LW42S	0411047-06	11/8/04	1601	Total Dissolved Solids	74	**235**		mg/L
4674	Chloride	LW42S	0411047-06	11/8/04	9056	Chloride	75	**2.05**		mg/L
4675	pH	LW42S	0411047-06	11/8/04	FIELD	pH	82	6.56		s.u.
4676	Temperature	LW42S	0411047-06	11/8/04	FIELD	Temperature	83	14.9		c
4677	Conductivity	LW42S	0411047-06	11/8/04	FIELD	Conductivity	84	283		us
4678	Dissolved oxygen	LW42S	0411047-06	11/8/04	FIELD	Dissolved oxygen	85	0.74		mg/l
4679	Naphthalene	LW42S	0411047-06	11/8/04	8270SIM	Naphthalene	119	**0.401**		ug/L
4680	Acenaphthylene	LW42S	0411047-06	11/8/04	8270SIM	Acenaphthylene	121	**0.245**		ug/L
4681	Acenaphthene	LW42S	0411047-06	11/8/04	8270SIM	Acenaphthene	122	**1.09**		ug/L
4682	Fluorene	LW42S	0411047-06	11/8/04	8270SIM	Fluorene	123	**2.75**		ug/L
4683	Anthracene	LW42S	0411047-06	11/8/04	8270SIM	Anthracene	124	**0.137**		ug/L
4684	1,1,1,2-Tetrachloroethane	LW42S	0411047-06	11/8/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
4685	1,1,1-Trichloroethane	LW42S	0411047-06	11/8/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
4686	1,1,2,2-Tetrachloroethane	LW42S	0411047-06	11/8/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
4687	1,1,2-Trichloroethane	LW42S	0411047-06	11/8/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
4688	1,1-Dichloroethane	LW42S	0411047-06	11/8/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
4689	1,1-Dichloroethene	LW42S	0411047-06	11/8/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
4690	1,1-Dichloropropene	LW42S	0411047-06	11/8/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
4691	1,2,3-Trichlorobenzene	LW42S	0411047-06	11/8/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
4692	1,2,3-Trichloropropane	LW42S	0411047-06	11/8/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
4693	1,2,4-Trichlorobenzene	LW42S	0411047-06	11/8/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
4694	1,2-Dibromo-3-chloropropane	LW42S	0411047-06	11/8/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
4695	1,2-Dibromoethane	LW42S	0411047-06	11/8/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
4696	1,2-Dichlorobenzene	LW42S	0411047-06	11/8/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
4697	1,2-Dichloroethane	LW42S	0411047-06	11/8/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
4698	1,2-Dichloropropane	LW42S	0411047-06	11/8/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
4699	1,3-Dichlorobenzene	LW42S	0411047-06	11/8/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
4700	1,3-Dichloropropane	LW42S	0411047-06	11/8/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
4701	1,4-Dichlorobenzene	LW42S	0411047-06	11/8/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
4702	2,2-Dichloropropane	LW42S	0411047-06	11/8/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
4703	2-Chlorotoluene	LW42S	0411047-06	11/8/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
4704	2-Hexanone	LW42S	0411047-06	11/8/04	8260	2-Hexanone	#N/A	10	U	ug/L
4705	4-Chlorotoluene	LW42S	0411047-06	11/8/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
4706	4-Methyl-2-pentanone	LW42S	0411047-06	11/8/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
4707	Acrylonitrile	LW42S	0411047-06	11/8/04	8260	Acrylonitrile	#N/A	5	U	ug/L
4708	Bromobenzene	LW42S	0411047-06	11/8/04	8260	Bromobenzene	#N/A	1	U	ug/L
4709	Bromochloromethane	LW42S	0411047-06	11/8/04	8260	Bromochloromethane	#N/A	1	U	ug/L
4710	Bromodichloromethane	LW42S	0411047-06	11/8/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
4711	Bromomethane	LW42S	0411047-06	11/8/04	8260	Bromomethane	#N/A	1	U	ug/L
4712	Carbon tetrachloride	LW42S	0411047-06	11/8/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
4713	Chlorobenzene	LW42S	0411047-06	11/8/04	8260	Chlorobenzene	#N/A	1	U	ug/L
4714	Chloroethane	LW42S	0411047-06	11/8/04	8260	Chloroethane	#N/A	1	U	ug/L
4715	Chloroform	LW42S	0411047-06	11/8/04	8260	Chloroform	#N/A	1	U	ug/L
4716	Chloromethane	LW42S	0411047-06	11/8/04	8260	Chloromethane	#N/A	1	U	ug/L
4717	cis-1,2-Dichloroethene	LW42S	0411047-06	11/8/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
4718	cis-1,3-Dichloropropene	LW42S	0411047-06	11/8/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
4719	Dibromochloromethane	LW42S	0411047-06	11/8/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
4720	Dibromomethane	LW42S	0411047-06	11/8/04	8260	Dibromomethane	#N/A	1	U	ug/L
4721	Dichlorodifluoromethane	LW42S	0411047-06	11/8/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
4722	Hexachlorobutadiene	LW42S	0411047-06	11/8/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
4723	Methylene chloride	LW42S	0411047-06	11/8/04	8260	Methylene chloride	#N/A	20	U	ug/L
4724	Tetrachloroethene	LW42S	0411047-06	11/8/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
4725	trans-1,2-Dichloroethene	LW42S	0411047-06	11/8/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
4726	trans-1,3-Dichloropropene	LW42S	0411047-06	11/8/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
4727	Trichloroethene	LW42S	0411047-06	11/8/04	8260	Trichloroethene	#N/A	1	U	ug/L
4728	Trichlorofluoromethane	LW42S	0411047-06	11/8/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
4729	Vinyl chloride	LW42S	0411047-06	11/8/04	8260	Vinyl chloride	#N/A	1	U	ug/L
4730	1,2,4-Trichlorobenzene	LW42S	0411047-06	11/8/04	8270	1,2,4-Trichlorobenzene	#N/A	1.03	U	ug/L
4731	1,2-Dichlorobenzene	LW42S	0411047-06	11/8/04	8270	1,2-Dichlorobenzene	#N/A	1.03	U	ug/L
4732	1,3-Dichlorobenzene	LW42S	0411047-06	11/8/04	8270	1,3-Dichlorobenzene	#N/A	1.03	U	ug/L
4733	1,4-Dichlorobenzene	LW42S	0411047-06	11/8/04	8270	1,4-Dichlorobenzene	#N/A	1.03	U	ug/L
4734	2,4-Dichlorophenol	LW42S	0411047-06	11/8/04	8270	2,4-Dichlorophenol	#N/A	3.08	U	ug/L
4735	2,4-Dinitrophenol	LW42S	0411047-06	11/8/04	8270	2,4-Dinitrophenol	#N/A	10.3	U	ug/L
4736	2,4-Dinitrotoluene	LW42S	0411047-06	11/8/04	8270	2,4-Dinitrotoluene	#N/A	5.13	U	ug/L
4737	2,6-Dinitrotoluene	LW42S	0411047-06	11/8/04	8270	2,6-Dinitrotoluene	#N/A	5.13	U	ug/L
4738	2-Chloronaphthalene	LW42S	0411047-06	11/8/04	8270	2-Chloronaphthalene	#N/A	1.03	U	ug/L
4739	2-Chlorophenol	LW42S	0411047-06	11/8/04	8270	2-Chlorophenol	#N/A	1.03	U	ug/L
4740	2-Methylphenol	LW42S	0411047-06	11/8/04	8270	2-Methylphenol	#N/A	2.05	U	ug/L
4741	2-Nitroaniline	LW42S	0411047-06	11/8/04	8270	2-Nitroaniline	#N/A	5.13	U	ug/L
4742	2-Nitrophenol	LW42S	0411047-06	11/8/04	8270	2-Nitrophenol	#N/A	5.13	U	ug/L
4743	3,3'-Dichlorobenzidine	LW42S	0411047-06	11/8/04	8270	3,3'-Dichlorobenzidine	#N/A	5.13	U	ug/L
4744	3-Nitroaniline	LW42S	0411047-06	11/8/04	8270	3-Nitroaniline	#N/A	6.15	U	ug/L
4745	4,6-Dinitro-2-methylphenol	LW42S	0411047-06	11/8/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.3	U	ug/L

	A	B	C	D	E	F	G	H	I	J
4746	4-Bromophenyl phenyl ether	LW42S	0411047-06	11/8/04	8270	4-Bromophenyl phenyl ether	#N/A	1.03	U	ug/L
4747	4-Chloro-3-methylphenol	LW42S	0411047-06	11/8/04	8270	4-Chloro-3-methylphenol	#N/A	2.05	U	ug/L
4748	4-Chloroaniline	LW42S	0411047-06	11/8/04	8270	4-Chloroaniline	#N/A	3.08	U	ug/L
4749	4-Chlorophenyl phenyl ether	LW42S	0411047-06	11/8/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.03	U	ug/L
4750	4-Nitroaniline	LW42S	0411047-06	11/8/04	8270	4-Nitroaniline	#N/A	5.13	U	ug/L
4751	4-Nitrophenol	LW42S	0411047-06	11/8/04	8270	4-Nitrophenol	#N/A	5.13	U	ug/L
4752	Benz(a)anthracene	LW42S	0411047-06	11/8/04	8270	Benz(a)anthracene	#N/A	1.03	U	ug/L
4753	Benzo(a)pyrene	LW42S	0411047-06	11/8/04	8270	Benzo(a)pyrene	#N/A	1.03	U	ug/L
4754	Benzo(b)fluoranthene	LW42S	0411047-06	11/8/04	8270	Benzo(b)fluoranthene	#N/A	1.03	U	ug/L
4755	Benzo(g,h,i)perylene	LW42S	0411047-06	11/8/04	8270	Benzo(g,h,i)perylene	#N/A	1.03	U	ug/L
4756	Benzo(k)fluoranthene	LW42S	0411047-06	11/8/04	8270	Benzo(k)fluoranthene	#N/A	1.03	U	ug/L
4757	Benzyl Alcohol	LW42S	0411047-06	11/8/04	8270	Benzyl Alcohol	#N/A	5.13	U	ug/L
4758	Bis(2-chloroethoxy)methane	LW42S	0411047-06	11/8/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.03	U	ug/L
4759	Bis(2-chloroethyl)ether	LW42S	0411047-06	11/8/04	8270	Bis(2-chloroethyl)ether	#N/A	2.05	U	ug/L
4760	Bis(2-chloroisopropyl)ether	LW42S	0411047-06	11/8/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.03	U	ug/L
4761	Butyl benzyl phthalate	LW42S	0411047-06	11/8/04	8270	Butyl benzyl phthalate	#N/A	1.03	U	ug/L
4762	Carbazole	LW42S	0411047-06	11/8/04	8270	Carbazole	#N/A	1.03	U	ug/L
4763	Chrysene	LW42S	0411047-06	11/8/04	8270	Chrysene	#N/A	1.03	U	ug/L
4764	Dibenz(a,h)anthracene	LW42S	0411047-06	11/8/04	8270	Dibenz(a,h)anthracene	#N/A	1.03	U	ug/L
4765	Diethyl phthalate	LW42S	0411047-06	11/8/04	8270	Diethyl phthalate	#N/A	1.03	U	ug/L
4766	Dimethyl phthalate	LW42S	0411047-06	11/8/04	8270	Dimethyl phthalate	#N/A	1.03	U	ug/L
4767	Di-n-butyl phthalate	LW42S	0411047-06	11/8/04	8270	Di-n-butyl phthalate	#N/A	1.03	U	ug/L
4768	Di-n-octyl phthalate	LW42S	0411047-06	11/8/04	8270	Di-n-octyl phthalate	#N/A	1.03	U	ug/L
4769	Fluoranthene	LW42S	0411047-06	11/8/04	8270	Fluoranthene	#N/A	1.03	U	ug/L
4770	Hexachlorobenzene	LW42S	0411047-06	11/8/04	8270	Hexachlorobenzene	#N/A	1.03	U	ug/L
4771	Hexachlorobutadiene	LW42S	0411047-06	11/8/04	8270	Hexachlorobutadiene	#N/A	2.05	U	ug/L
4772	Hexachlorocyclopentadiene	LW42S	0411047-06	11/8/04	8270	Hexachlorocyclopentadiene	#N/A	5.13	U	ug/L
4773	Hexachloroethane	LW42S	0411047-06	11/8/04	8270	Hexachloroethane	#N/A	2.05	U	ug/L
4774	Indeno(1,2,3-cd)pyrene	LW42S	0411047-06	11/8/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.03	U	ug/L
4775	Nitrobenzene	LW42S	0411047-06	11/8/04	8270	Nitrobenzene	#N/A	1.03	U	ug/L
4776	N-Nitrosodimethylamine	LW42S	0411047-06	11/8/04	8270	N-Nitrosodimethylamine	#N/A	1.03	U	ug/L
4777	N-Nitrosodi-n-propylamine	LW42S	0411047-06	11/8/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.05	U	ug/L
4778	N-Nitrosodiphenylamine	LW42S	0411047-06	11/8/04	8270	N-Nitrosodiphenylamine	#N/A	1.03	U	ug/L
4779	Phenanthrene	LW42S	0411047-06	11/8/04	8270	Phenanthrene	#N/A	**4.18**		ug/L
4780	Pyrene	LW42S	0411047-06	11/8/04	8270	Pyrene	#N/A	1.03	U	ug/L
4781	Pyridine	LW42S	0411047-06	11/8/04	8270	Pyridine	#N/A	5.13	U	ug/L
4782	Benz(a)anthracene	LW42S	0411047-06	11/8/04	8270SIM	Benz(a)anthracene	#N/A	0.0489	U	ug/L
4783	Benzo(a)pyrene	LW42S	0411047-06	11/8/04	8270SIM	Benzo(a)pyrene	#N/A	0.0489	U	ug/L
4784	Benzo(b)fluoranthene	LW42S	0411047-06	11/8/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0489	U	ug/L
4785	Benzo(g,h,i)perylene	LW42S	0411047-06	11/8/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0489	U	ug/L
4786	Benzo(k)fluoranthene	LW42S	0411047-06	11/8/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0489	U	ug/L
4787	Chrysene	LW42S	0411047-06	11/8/04	8270SIM	Chrysene	#N/A	0.0489	U	ug/L
4788	Dibenz(a,h)anthracene	LW42S	0411047-06	11/8/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0489	U	ug/L
4789	Fluoranthene	LW42S	0411047-06	11/8/04	8270SIM	Fluoranthene	#N/A	**0.0489**		ug/L
4790	Indeno(1,2,3-cd)pyrene	LW42S	0411047-06	11/8/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0489	U	ug/L
4791	Phenanthrene	LW42S	0411047-06	11/8/04	8270SIM	Phenanthrene	#N/A	**2.97**		ug/L
4792	Pyrene	LW42S	0411047-06	11/8/04	8270SIM	Pyrene	#N/A	**0.0489**		ug/L
4793	Turbidity	LW42S	0411047-06	11/8/04	FIELD	Turbidity	#N/A	0		ntu
4794	Pentachlorophenol	LW43S	0411052-01	11/9/04	8270	Pentachlorophenol	3	5.02	U	ug/L
4795	Phenol	LW43S	0411052-01	11/9/04	8270	Phenol	13	2.01	U	ug/L
4796	3-&4-Methylphenol	LW43S	0411052-01	11/9/04	8270	3-&4-Methylphenol	14	10	U	ug/L
4797	Isophorone	LW43S	0411052-01	11/9/04	8270	Isophorone	15	1	U	ug/L
4798	2,4-Dimethylphenol	LW43S	0411052-01	11/9/04	8270	2,4-Dimethylphenol	16	3.01	U	ug/L
4799	Benzoic Acid	LW43S	0411052-01	11/9/04	8270	Benzoic Acid	17	20.1	U	ug/L
4800	Naphthalene	LW43S	0411052-01	11/9/04	8270	Naphthalene	18	1	U	ug/L
4801	2-Methylnaphthalene	LW43S	0411052-01	11/9/04	8270	2-Methylnaphthalene	19	1	U	ug/L
4802	2,4,6-Trichlorophenol	LW43S	0411052-01	11/9/04	8270	2,4,6-Trichlorophenol	20	5.02	U	ug/L
4803	2,4,5-Trichlorophenol	LW43S	0411052-01	11/9/04	8270	2,4,5-Trichlorophenol	21	5.02	U	ug/L
4804	Acenaphthene	LW43S	0411052-01	11/9/04	8270	Acenaphthene	22	**1.52**		ug/L
4805	Dibenzofuran	LW43S	0411052-01	11/9/04	8270	Dibenzofuran	23	1	U	ug/L
4806	Fluorene	LW43S	0411052-01	11/9/04	8270	Fluorene	24	**3.24**		ug/L
4807	Bis(2-ethylhexyl)phthalate	LW43S	0411052-01	11/9/04	8270	Bis(2-ethylhexyl)phthalate	26	1	U	ug/L
4808	Acetone	LW43S	0411052-01	11/9/04	8260	Acetone	30	50	U	ug/L
4809	Carbon disulfide	LW43S	0411052-01	11/9/04	8260	Carbon disulfide	31	2	U	ug/L
4810	2-Butanone	LW43S	0411052-01	11/9/04	8260	2-Butanone	32	10	U	ug/L
4811	Benzene	LW43S	0411052-01	11/9/04	8260	Benzene	33	**0.68**		ug/L
4812	Bromoform	LW43S	0411052-01	11/9/04	8260	Bromoform	34	1	U	ug/L
4813	Toluene	LW43S	0411052-01	11/9/04	8260	Toluene	35	1	U	ug/L
4814	Ethylbenzene	LW43S	0411052-01	11/9/04	8260	Ethylbenzene	36	1	U	ug/L
4815	Styrene	LW43S	0411052-01	11/9/04	8260	Styrene	37	1	U	ug/L
4816	m,p-Xylene	LW43S	0411052-01	11/9/04	8260	m,p-Xylene	38	2	U	ug/L
4817	o-Xylene	LW43S	0411052-01	11/9/04	8260	o-Xylene	39	1	U	ug/L
4818	1,3,5-Trimethylbenzene	LW43S	0411052-01	11/9/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
4819	1,2,4-Trimethylbenzene	LW43S	0411052-01	11/9/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
4820	Isopropylbenzene	LW43S	0411052-01	11/9/04	8260	Isopropylbenzene	42	**6.94**		ug/L
4821	n-Propylbenzene	LW43S	0411052-01	11/9/04	8260	n-Propylbenzene	43	**27.7**		ug/L
4822	tert-Butylbenzene	LW43S	0411052-01	11/9/04	8260	tert-Butylbenzene	44	1	U	ug/L
4823	sec-Butylbenzene	LW43S	0411052-01	11/9/04	8260	sec-Butylbenzene	45	**2.42**		ug/L
4824	4-Isopropyltoluene	LW43S	0411052-01	11/9/04	8260	4-Isopropyltoluene	46	1	U	ug/L
4825	n-Butylbenzene	LW43S	0411052-01	11/9/04	8260	n-Butylbenzene	47	**6.08**		ug/L
4826	Naphthalene	LW43S	0411052-01	11/9/04	8260	Naphthalene	48	1	U	ug/L
4827	Methyl tert-butyl ether	LW43S	0411052-01	11/9/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
4828	Diesel Range Hydrocarbons	LW43S	0411052-01	11/9/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**1.91**		mg/L
4829	Lube Oil	LW43S	0411052-01	11/9/04	NWTPH-Dx	Lube Oil	54	**0.654**		mg/L
4830	Gasoline Range Hydrocarbons	LW43S	0411052-01	11/9/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**0.988**		ug/L
4831	Arsenic	LW43S	0411052-01	11/9/04	6020	Arsenic	59	**0.0109**		ug/L
4832	Chromium	LW43S	0411052-01	11/9/04	6010	Chromium	60	**0.0176**		mg/L
4833	Copper	LW43S	0411052-01	11/9/04	6010	Copper	61	0.01	U	mg/L
4834	Lead	LW43S	0411052-01	11/9/04	6020	Lead	62	**0.00068**		ug/L
4835	Nickel	LW43S	0411052-01	11/9/04	6010	Nickel	63	0.005	U	mg/L
4836	Zinc	LW43S	0411052-01	11/9/04	6010	Zinc	64	0.01	U	mg/L
4837	Total Dissolved Solids	LW43S	0411052-01	11/9/04	1601	Total Dissolved Solids	74	**199**		mg/L
4838	Chloride	LW43S	0411052-01	11/9/04	9056	Chloride	75	**1.79**		mg/L
4839	pH	LW43S	0411052-01	11/9/04	FIELD	pH	82	6.47		s.u.
4840	Temperature	LW43S	0411052-01	11/9/04	FIELD	Temperature	83	15.1		c
4841	Conductivity	LW43S	0411052-01	11/9/04	FIELD	Conductivity	84	255		us
4842	Dissolved oxygen	LW43S	0411052-01	11/9/04	FIELD	Dissolved oxygen	85	1.32		mg/l
4843	Naphthalene	LW43S	0411052-01	11/9/04	8270SIM	Naphthalene	119	**0.453**		ug/L
4844	Acenaphthylene	LW43S	0411052-01	11/9/04	8270SIM	Acenaphthylene	121	**0.306**		ug/L
4845	Acenaphthene	LW43S	0411052-01	11/9/04	8270SIM	Acenaphthene	122	**1.32**		ug/L
4846	Fluorene	LW43S	0411052-01	11/9/04	8270SIM	Fluorene	123	**3.16**		ug/L
4847	Anthracene	LW43S	0411052-01	11/9/04	8270SIM	Anthracene	124	**0.126**		ug/L
4848	1,1,1,2-Tetrachloroethane	LW43S	0411052-01	11/9/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
4849	1,1,1-Trichloroethane	LW43S	0411052-01	11/9/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
4850	1,1,2,2-Tetrachloroethane	LW43S	0411052-01	11/9/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
4851	1,1,2-Trichloroethane	LW43S	0411052-01	11/9/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
4852	1,1-Dichloroethane	LW43S	0411052-01	11/9/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
4853	1,1-Dichloroethene	LW43S	0411052-01	11/9/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
4854	1,1-Dichloropropene	LW43S	0411052-01	11/9/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
4855	1,2,3-Trichlorobenzene	LW43S	0411052-01	11/9/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
4856	1,2,3-Trichloropropane	LW43S	0411052-01	11/9/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
4857	1,2,4-Trichlorobenzene	LW43S	0411052-01	11/9/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
4858	1,2-Dibromo-3-chloropropane	LW43S	0411052-01	11/9/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
4859	1,2-Dibromoethane	LW43S	0411052-01	11/9/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
4860	1,2-Dichlorobenzene	LW43S	0411052-01	11/9/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
4861	1,2-Dichloroethane	LW43S	0411052-01	11/9/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
4862	1,2-Dichloropropane	LW43S	0411052-01	11/9/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
4863	1,3-Dichlorobenzene	LW43S	0411052-01	11/9/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
4864	1,3-Dichloropropane	LW43S	0411052-01	11/9/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
4865	1,4-Dichlorobenzene	LW43S	0411052-01	11/9/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
4866	2,2-Dichloropropane	LW43S	0411052-01	11/9/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
4867	2-Chlorotoluene	LW43S	0411052-01	11/9/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
4868	2-Hexanone	LW43S	0411052-01	11/9/04	8260	2-Hexanone	#N/A	10	U	ug/L
4869	4-Chlorotoluene	LW43S	0411052-01	11/9/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
4870	4-Methyl-2-pentanone	LW43S	0411052-01	11/9/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
4871	Acrylonitrile	LW43S	0411052-01	11/9/04	8260	Acrylonitrile	#N/A	5	U	ug/L
4872	Bromobenzene	LW43S	0411052-01	11/9/04	8260	Bromobenzene	#N/A	1	U	ug/L
4873	Bromochloromethane	LW43S	0411052-01	11/9/04	8260	Bromochloromethane	#N/A	1	U	ug/L
4874	Bromodichloromethane	LW43S	0411052-01	11/9/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
4875	Bromomethane	LW43S	0411052-01	11/9/04	8260	Bromomethane	#N/A	1	U	ug/L
4876	Carbon tetrachloride	LW43S	0411052-01	11/9/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
4877	Chlorobenzene	LW43S	0411052-01	11/9/04	8260	Chlorobenzene	#N/A	1	U	ug/L
4878	Chloroethane	LW43S	0411052-01	11/9/04	8260	Chloroethane	#N/A	1	U	ug/L
4879	Chloroform	LW43S	0411052-01	11/9/04	8260	Chloroform	#N/A	1	U	ug/L
4880	Chloromethane	LW43S	0411052-01	11/9/04	8260	Chloromethane	#N/A	1	U	ug/L
4881	cis-1,2-Dichloroethene	LW43S	0411052-01	11/9/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
4882	cis-1,3-Dichloropropene	LW43S	0411052-01	11/9/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
4883	Dibromochloromethane	LW43S	0411052-01	11/9/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
4884	Dibromomethane	LW43S	0411052-01	11/9/04	8260	Dibromomethane	#N/A	1	U	ug/L
4885	Dichlorodifluoromethane	LW43S	0411052-01	11/9/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
4886	Hexachlorobutadiene	LW43S	0411052-01	11/9/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
4887	Methylene chloride	LW43S	0411052-01	11/9/04	8260	Methylene chloride	#N/A	20	U	ug/L
4888	Tetrachloroethene	LW43S	0411052-01	11/9/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
4889	trans-1,2-Dichloroethene	LW43S	0411052-01	11/9/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
4890	trans-1,3-Dichloropropene	LW43S	0411052-01	11/9/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
4891	Trichloroethene	LW43S	0411052-01	11/9/04	8260	Trichloroethene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
4892	Trichlorofluoromethane	LW43S	0411052-01	11/9/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
4893	Vinyl chloride	LW43S	0411052-01	11/9/04	8260	Vinyl chloride	#N/A	1	U	ug/L
4894	1,2,4-Trichlorobenzene	LW43S	0411052-01	11/9/04	8270	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
4895	1,2-Dichlorobenzene	LW43S	0411052-01	11/9/04	8270	1,2-Dichlorobenzene	#N/A	1	U	ug/L
4896	1,3-Dichlorobenzene	LW43S	0411052-01	11/9/04	8270	1,3-Dichlorobenzene	#N/A	1	U	ug/L
4897	1,4-Dichlorobenzene	LW43S	0411052-01	11/9/04	8270	1,4-Dichlorobenzene	#N/A	1	U	ug/L
4898	2,4-Dichlorophenol	LW43S	0411052-01	11/9/04	8270	2,4-Dichlorophenol	#N/A	3.01	U	ug/L
4899	2,4-Dinitrophenol	LW43S	0411052-01	11/9/04	8270	2,4-Dinitrophenol	#N/A	10	U	ug/L
4900	2,4-Dinitrotoluene	LW43S	0411052-01	11/9/04	8270	2,4-Dinitrotoluene	#N/A	5.02	U	ug/L
4901	2,6-Dinitrotoluene	LW43S	0411052-01	11/9/04	8270	2,6-Dinitrotoluene	#N/A	5.02	U	ug/L
4902	2-Chloronaphthalene	LW43S	0411052-01	11/9/04	8270	2-Chloronaphthalene	#N/A	1	U	ug/L
4903	2-Chlorophenol	LW43S	0411052-01	11/9/04	8270	2-Chlorophenol	#N/A	1	U	ug/L
4904	2-Methylphenol	LW43S	0411052-01	11/9/04	8270	2-Methylphenol	#N/A	2.01	U	ug/L
4905	2-Nitroaniline	LW43S	0411052-01	11/9/04	8270	2-Nitroaniline	#N/A	5.02	U	ug/L
4906	2-Nitrophenol	LW43S	0411052-01	11/9/04	8270	2-Nitrophenol	#N/A	5.02	U	ug/L
4907	3,3'-Dichlorobenzidine	LW43S	0411052-01	11/9/04	8270	3,3'-Dichlorobenzidine	#N/A	5.02	U	ug/L
4908	3-Nitroaniline	LW43S	0411052-01	11/9/04	8270	3-Nitroaniline	#N/A	6.02	U	ug/L
4909	4,6-Dinitro-2-methylphenol	LW43S	0411052-01	11/9/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10	U	ug/L
4910	4-Bromophenyl phenyl ether	LW43S	0411052-01	11/9/04	8270	4-Bromophenyl phenyl ether	#N/A	1	U	ug/L
4911	4-Chloro-3-methylphenol	LW43S	0411052-01	11/9/04	8270	4-Chloro-3-methylphenol	#N/A	2.01	U	ug/L
4912	4-Chloroaniline	LW43S	0411052-01	11/9/04	8270	4-Chloroaniline	#N/A	3.01	U	ug/L
4913	4-Chlorophenyl phenyl ether	LW43S	0411052-01	11/9/04	8270	4-Chlorophenyl phenyl ether	#N/A	1	U	ug/L
4914	4-Nitroaniline	LW43S	0411052-01	11/9/04	8270	4-Nitroaniline	#N/A	5.02	U	ug/L
4915	4-Nitrophenol	LW43S	0411052-01	11/9/04	8270	4-Nitrophenol	#N/A	5.02	U	ug/L
4916	Benz(a)anthracene	LW43S	0411052-01	11/9/04	8270	Benz(a)anthracene	#N/A	1	U	ug/L
4917	Benzo(a)pyrene	LW43S	0411052-01	11/9/04	8270	Benzo(a)pyrene	#N/A	1	U	ug/L
4918	Benzo(b)fluoranthene	LW43S	0411052-01	11/9/04	8270	Benzo(b)fluoranthene	#N/A	1	U	ug/L
4919	Benzo(g,h,i)perylene	LW43S	0411052-01	11/9/04	8270	Benzo(g,h,i)perylene	#N/A	1	U	ug/L
4920	Benzo(k)fluoranthene	LW43S	0411052-01	11/9/04	8270	Benzo(k)fluoranthene	#N/A	1	U	ug/L
4921	Benzyl Alcohol	LW43S	0411052-01	11/9/04	8270	Benzyl Alcohol	#N/A	5.02	U	ug/L
4922	Bis(2-chloroethoxy)methane	LW43S	0411052-01	11/9/04	8270	Bis(2-chloroethoxy)methane	#N/A	1	U	ug/L
4923	Bis(2-chloroethyl)ether	LW43S	0411052-01	11/9/04	8270	Bis(2-chloroethyl)ether	#N/A	2.01	U	ug/L
4924	Bis(2-chloroisopropyl)ether	LW43S	0411052-01	11/9/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1	U	ug/L
4925	Butyl benzyl phthalate	LW43S	0411052-01	11/9/04	8270	Butyl benzyl phthalate	#N/A	1	U	ug/L
4926	Carbazole	LW43S	0411052-01	11/9/04	8270	Carbazole	#N/A	1	U	ug/L
4927	Chrysene	LW43S	0411052-01	11/9/04	8270	Chrysene	#N/A	1	U	ug/L
4928	Dibenz(a,h)anthracene	LW43S	0411052-01	11/9/04	8270	Dibenz(a,h)anthracene	#N/A	1	U	ug/L
4929	Diethyl phthalate	LW43S	0411052-01	11/9/04	8270	Diethyl phthalate	#N/A	1	U	ug/L
4930	Dimethyl phthalate	LW43S	0411052-01	11/9/04	8270	Dimethyl phthalate	#N/A	1	U	ug/L
4931	Di-n-butyl phthalate	LW43S	0411052-01	11/9/04	8270	Di-n-butyl phthalate	#N/A	1	U	ug/L
4932	Di-n-octyl phthalate	LW43S	0411052-01	11/9/04	8270	Di-n-octyl phthalate	#N/A	1	U	ug/L
4933	Fluoranthene	LW43S	0411052-01	11/9/04	8270	Fluoranthene	#N/A	1	U	ug/L
4934	Hexachlorobenzene	LW43S	0411052-01	11/9/04	8270	Hexachlorobenzene	#N/A	1	U	ug/L
4935	Hexachlorobutadiene	LW43S	0411052-01	11/9/04	8270	Hexachlorobutadiene	#N/A	2.01	U	ug/L
4936	Hexachlorocyclopentadiene	LW43S	0411052-01	11/9/04	8270	Hexachlorocyclopentadiene	#N/A	5.02	U	ug/L
4937	Hexachloroethane	LW43S	0411052-01	11/9/04	8270	Hexachloroethane	#N/A	2.01	U	ug/L
4938	Indeno(1,2,3-cd)pyrene	LW43S	0411052-01	11/9/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1	U	ug/L
4939	Nitrobenzene	LW43S	0411052-01	11/9/04	8270	Nitrobenzene	#N/A	1	U	ug/L
4940	N-Nitrosodimethylamine	LW43S	0411052-01	11/9/04	8270	N-Nitrosodimethylamine	#N/A	1	U	ug/L
4941	N-Nitrosodi-n-propylamine	LW43S	0411052-01	11/9/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.01	U	ug/L
4942	N-Nitrosodiphenylamine	LW43S	0411052-01	11/9/04	8270	N-Nitrosodiphenylamine	#N/A	1	U	ug/L
4943	Phenanthrene	LW43S	0411052-01	11/9/04	8270	Phenanthrene	#N/A	**3.78**		ug/L
4944	Pyrene	LW43S	0411052-01	11/9/04	8270	Pyrene	#N/A	1	U	ug/L
4945	Pyridine	LW43S	0411052-01	11/9/04	8270	Pyridine	#N/A	5.02	U	ug/L
4946	Benz(a)anthracene	LW43S	0411052-01	11/9/04	8270SIM	Benz(a)anthracene	#N/A	0.0527	U	ug/L
4947	Benzo(a)pyrene	LW43S	0411052-01	11/9/04	8270SIM	Benzo(a)pyrene	#N/A	0.0527	U	ug/L
4948	Benzo(b)fluoranthene	LW43S	0411052-01	11/9/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0527	U	ug/L
4949	Benzo(g,h,i)perylene	LW43S	0411052-01	11/9/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0527	U	ug/L
4950	Benzo(k)fluoranthene	LW43S	0411052-01	11/9/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0527	U	ug/L
4951	Chrysene	LW43S	0411052-01	11/9/04	8270SIM	Chrysene	#N/A	0.0527	U	ug/L
4952	Dibenz(a,h)anthracene	LW43S	0411052-01	11/9/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0527	U	ug/L
4953	Fluoranthene	LW43S	0411052-01	11/9/04	8270SIM	Fluoranthene	#N/A	0.0527	U	ug/L
4954	Indeno(1,2,3-cd)pyrene	LW43S	0411052-01	11/9/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0527	U	ug/L
4955	Phenanthrene	LW43S	0411052-01	11/9/04	8270SIM	Phenanthrene	#N/A	**2.9**		ug/L
4956	Pyrene	LW43S	0411052-01	11/9/04	8270SIM	Pyrene	#N/A	0.0527	U	ug/L
4957	Turbidity	LW43S	0411052-01	11/9/04	FIELD	Turbidity	#N/A	10		ntu
4958	Pentachlorophenol	LW44S	0411047-07	11/8/04	8270	Pentachlorophenol	3	4.93	U	ug/L
4959	Phenol	LW44S	0411047-07	11/8/04	8270	Phenol	13	1.97	U	ug/L
4960	3-&4-Methylphenol	LW44S	0411047-07	11/8/04	8270	3-&4-Methylphenol	14	9.86	U	ug/L
4961	Isophorone	LW44S	0411047-07	11/8/04	8270	Isophorone	15	0.986	U	ug/L
4962	2,4-Dimethylphenol	LW44S	0411047-07	11/8/04	8270	2,4-Dimethylphenol	16	2.96	U	ug/L
4963	Benzoic Acid	LW44S	0411047-07	11/8/04	8270	Benzoic Acid	17	19.7	U	ug/L
4964	Naphthalene	LW44S	0411047-07	11/8/04	8270	Naphthalene	18	0.986	U	ug/L

	A	B	C	D	E	F	G	H	I	J
4965	2-Methylnaphthalene	LW44S	0411047-07	11/8/04	8270	2-Methylnaphthalene	19	0.986	U	ug/L
4966	2,4,6-Trichlorophenol	LW44S	0411047-07	11/8/04	8270	2,4,6-Trichlorophenol	20	4.93	U	ug/L
4967	2,4,5-Trichlorophenol	LW44S	0411047-07	11/8/04	8270	2,4,5-Trichlorophenol	21	4.93	U	ug/L
4968	Acenaphthene	LW44S	0411047-07	11/8/04	8270	Acenaphthene	22	0.986	U	ug/L
4969	Dibenzofuran	LW44S	0411047-07	11/8/04	8270	Dibenzofuran	23	0.986	U	ug/L
4970	Fluorene	LW44S	0411047-07	11/8/04	8270	Fluorene	24	0.986	U	ug/L
4971	Bis(2-ethylhexyl)phthalate	LW44S	0411047-07	11/8/04	8270	Bis(2-ethylhexyl)phthalate	26	0.986	U	ug/L
4972	Acetone	LW44S	0411047-07	11/8/04	8260	Acetone	30	50	U	ug/L
4973	Carbon disulfide	LW44S	0411047-07	11/8/04	8260	Carbon disulfide	31	2	U	ug/L
4974	2-Butanone	LW44S	0411047-07	11/8/04	8260	2-Butanone	32	10	U	ug/L
4975	Benzene	LW44S	0411047-07	11/8/04	8260	Benzene	33	0.3	U	ug/L
4976	Bromoform	LW44S	0411047-07	11/8/04	8260	Bromoform	34	1	U	ug/L
4977	Toluene	LW44S	0411047-07	11/8/04	8260	Toluene	35	1	U	ug/L
4978	Ethylbenzene	LW44S	0411047-07	11/8/04	8260	Ethylbenzene	36	1	U	ug/L
4979	Styrene	LW44S	0411047-07	11/8/04	8260	Styrene	37	1	U	ug/L
4980	m,p-Xylene	LW44S	0411047-07	11/8/04	8260	m,p-Xylene	38	2	U	ug/L
4981	o-Xylene	LW44S	0411047-07	11/8/04	8260	o-Xylene	39	1	U	ug/L
4982	1,3,5-Trimethylbenzene	LW44S	0411047-07	11/8/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
4983	1,2,4-Trimethylbenzene	LW44S	0411047-07	11/8/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
4984	Isopropylbenzene	LW44S	0411047-07	11/8/04	8260	Isopropylbenzene	42	**78.9**		ug/L
4985	n-Propylbenzene	LW44S	0411047-07	11/8/04	8260	n-Propylbenzene	43	**61.4**		ug/L
4986	tert-Butylbenzene	LW44S	0411047-07	11/8/04	8260	tert-Butylbenzene	44	**1.72**		ug/L
4987	sec-Butylbenzene	LW44S	0411047-07	11/8/04	8260	sec-Butylbenzene	45	**11.9**		ug/L
4988	4-Isopropyltoluene	LW44S	0411047-07	11/8/04	8260	4-Isopropyltoluene	46	1	U	ug/L
4989	n-Butylbenzene	LW44S	0411047-07	11/8/04	8260	n-Butylbenzene	47	**2.33**		ug/L
4990	Naphthalene	LW44S	0411047-07	11/8/04	8260	Naphthalene	48	1	U	ug/L
4991	Methyl tert-butyl ether	LW44S	0411047-07	11/8/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
4992	Diesel Range Hydrocarbons	LW44S	0411047-07	11/8/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**3.77**		mg/L
4993	Lube Oil	LW44S	0411047-07	11/8/04	NWTPH-Dx	Lube Oil	54	0.502	U	mg/L
4994	Gasoline Range Hydrocarbons	LW44S	0411047-07	11/8/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**2.94**		ug/L
4995	Arsenic	LW44S	0411047-07	11/8/04	6020	Arsenic	59	**0.0123**		ug/L
4996	Chromium	LW44S	0411047-07	11/8/04	6010	Chromium	60	**0.0176**		mg/L
4997	Copper	LW44S	0411047-07	11/8/04	6010	Copper	61	0.01	U	mg/L
4998	Lead	LW44S	0411047-07	11/8/04	6020	Lead	62	**0.00717**		ug/L
4999	Nickel	LW44S	0411047-07	11/8/04	6010	Nickel	63	0.005	U	mg/L
5000	Zinc	LW44S	0411047-07	11/8/04	6010	Zinc	64	**0.0294**		mg/L
5001	Total Dissolved Solids	LW44S	0411047-07	11/8/04	1601	Total Dissolved Solids	74	**387**		mg/L
5002	Chloride	LW44S	0411047-07	11/8/04	9056	Chloride	75	**3.89**		mg/L
5003	pH	LW44S	0411047-07	11/8/04	FIELD	pH	82	6.46		s.u.
5004	Temperature	LW44S	0411047-07	11/8/04	FIELD	Temperature	83	14.9		c
5005	Conductivity	LW44S	0411047-07	11/8/04	FIELD	Conductivity	84	332		us
5006	Dissolved oxygen	LW44S	0411047-07	11/8/04	FIELD	Dissolved oxygen	85	0.56		mg/l
5007	Naphthalene	LW44S	0411047-07	11/8/04	8270SIM	Naphthalene	119	**0.706**		ug/L
5008	Acenaphthylene	LW44S	0411047-07	11/8/04	8270SIM	Acenaphthylene	121	0.0498	U	ug/L
5009	Acenaphthene	LW44S	0411047-07	11/8/04	8270SIM	Acenaphthene	122	**0.129**		ug/L
5010	Fluorene	LW44S	0411047-07	11/8/04	8270SIM	Fluorene	123	**0.179**		ug/L
5011	Anthracene	LW44S	0411047-07	11/8/04	8270SIM	Anthracene	124	0.0498	U	ug/L
5012	1,1,1,2-Tetrachloroethane	LW44S	0411047-07	11/8/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
5013	1,1,1-Trichloroethane	LW44S	0411047-07	11/8/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
5014	1,1,2,2-Tetrachloroethane	LW44S	0411047-07	11/8/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
5015	1,1,2-Trichloroethane	LW44S	0411047-07	11/8/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
5016	1,1-Dichloroethane	LW44S	0411047-07	11/8/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
5017	1,1-Dichloroethene	LW44S	0411047-07	11/8/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
5018	1,1-Dichloropropene	LW44S	0411047-07	11/8/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
5019	1,2,3-Trichlorobenzene	LW44S	0411047-07	11/8/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
5020	1,2,3-Trichloropropane	LW44S	0411047-07	11/8/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
5021	1,2,4-Trichlorobenzene	LW44S	0411047-07	11/8/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
5022	1,2-Dibromo-3-chloropropane	LW44S	0411047-07	11/8/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
5023	1,2-Dibromoethane	LW44S	0411047-07	11/8/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
5024	1,2-Dichlorobenzene	LW44S	0411047-07	11/8/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
5025	1,2-Dichloroethane	LW44S	0411047-07	11/8/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
5026	1,2-Dichloropropane	LW44S	0411047-07	11/8/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
5027	1,3-Dichlorobenzene	LW44S	0411047-07	11/8/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
5028	1,3-Dichloropropane	LW44S	0411047-07	11/8/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
5029	1,4-Dichlorobenzene	LW44S	0411047-07	11/8/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
5030	2,2-Dichloropropane	LW44S	0411047-07	11/8/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
5031	2-Chlorotoluene	LW44S	0411047-07	11/8/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
5032	2-Hexanone	LW44S	0411047-07	11/8/04	8260	2-Hexanone	#N/A	10	U	ug/L
5033	4-Chlorotoluene	LW44S	0411047-07	11/8/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
5034	4-Methyl-2-pentanone	LW44S	0411047-07	11/8/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
5035	Acrylonitrile	LW44S	0411047-07	11/8/04	8260	Acrylonitrile	#N/A	5	U	ug/L
5036	Bromobenzene	LW44S	0411047-07	11/8/04	8260	Bromobenzene	#N/A	1	U	ug/L
5037	Bromochloromethane	LW44S	0411047-07	11/8/04	8260	Bromochloromethane	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
5038	Bromodichloromethane	LW44S	0411047-07	11/8/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
5039	Bromomethane	LW44S	0411047-07	11/8/04	8260	Bromomethane	#N/A	1	U	ug/L
5040	Carbon tetrachloride	LW44S	0411047-07	11/8/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
5041	Chlorobenzene	LW44S	0411047-07	11/8/04	8260	Chlorobenzene	#N/A	1	U	ug/L
5042	Chloroethane	LW44S	0411047-07	11/8/04	8260	Chloroethane	#N/A	1	U	ug/L
5043	Chloroform	LW44S	0411047-07	11/8/04	8260	Chloroform	#N/A	1.55		ug/L
5044	Chloromethane	LW44S	0411047-07	11/8/04	8260	Chloromethane	#N/A	1	U	ug/L
5045	cis-1,2-Dichloroethene	LW44S	0411047-07	11/8/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
5046	cis-1,3-Dichloropropene	LW44S	0411047-07	11/8/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
5047	Dibromochloromethane	LW44S	0411047-07	11/8/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
5048	Dibromomethane	LW44S	0411047-07	11/8/04	8260	Dibromomethane	#N/A	1	U	ug/L
5049	Dichlorodifluoromethane	LW44S	0411047-07	11/8/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
5050	Hexachlorobutadiene	LW44S	0411047-07	11/8/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
5051	Methylene chloride	LW44S	0411047-07	11/8/04	8260	Methylene chloride	#N/A	20	U	ug/L
5052	Tetrachloroethene	LW44S	0411047-07	11/8/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
5053	trans-1,2-Dichloroethene	LW44S	0411047-07	11/8/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
5054	trans-1,3-Dichloropropene	LW44S	0411047-07	11/8/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
5055	Trichloroethene	LW44S	0411047-07	11/8/04	8260	Trichloroethene	#N/A	1	U	ug/L
5056	Trichlorofluoromethane	LW44S	0411047-07	11/8/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
5057	Vinyl chloride	LW44S	0411047-07	11/8/04	8260	Vinyl chloride	#N/A	1	U	ug/L
5058	1,2,4-Trichlorobenzene	LW44S	0411047-07	11/8/04	8270	1,2,4-Trichlorobenzene	#N/A	0.986	U	ug/L
5059	1,2-Dichlorobenzene	LW44S	0411047-07	11/8/04	8270	1,2-Dichlorobenzene	#N/A	0.986	U	ug/L
5060	1,3-Dichlorobenzene	LW44S	0411047-07	11/8/04	8270	1,3-Dichlorobenzene	#N/A	0.986	U	ug/L
5061	1,4-Dichlorobenzene	LW44S	0411047-07	11/8/04	8270	1,4-Dichlorobenzene	#N/A	0.986	U	ug/L
5062	2,4-Dichlorophenol	LW44S	0411047-07	11/8/04	8270	2,4-Dichlorophenol	#N/A	2.96	U	ug/L
5063	2,4-Dinitrophenol	LW44S	0411047-07	11/8/04	8270	2,4-Dinitrophenol	#N/A	9.86	U	ug/L
5064	2,4-Dinitrotoluene	LW44S	0411047-07	11/8/04	8270	2,4-Dinitrotoluene	#N/A	4.93	U	ug/L
5065	2,6-Dinitrotoluene	LW44S	0411047-07	11/8/04	8270	2,6-Dinitrotoluene	#N/A	4.93	U	ug/L
5066	2-Chloronaphthalene	LW44S	0411047-07	11/8/04	8270	2-Chloronaphthalene	#N/A	0.986	U	ug/L
5067	2-Chlorophenol	LW44S	0411047-07	11/8/04	8270	2-Chlorophenol	#N/A	0.986	U	ug/L
5068	2-Methylphenol	LW44S	0411047-07	11/8/04	8270	2-Methylphenol	#N/A	1.97	U	ug/L
5069	2-Nitroaniline	LW44S	0411047-07	11/8/04	8270	2-Nitroaniline	#N/A	4.93	U	ug/L
5070	2-Nitrophenol	LW44S	0411047-07	11/8/04	8270	2-Nitrophenol	#N/A	4.93	U	ug/L
5071	3,3'-Dichlorobenzidine	LW44S	0411047-07	11/8/04	8270	3,3'-Dichlorobenzidine	#N/A	4.93	U	ug/L
5072	3-Nitroaniline	LW44S	0411047-07	11/8/04	8270	3-Nitroaniline	#N/A	5.92	U	ug/L
5073	4,6-Dinitro-2-methylphenol	LW44S	0411047-07	11/8/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.86	U	ug/L
5074	4-Bromophenyl phenyl ether	LW44S	0411047-07	11/8/04	8270	4-Bromophenyl phenyl ether	#N/A	0.986	U	ug/L
5075	4-Chloro-3-methylphenol	LW44S	0411047-07	11/8/04	8270	4-Chloro-3-methylphenol	#N/A	1.97	U	ug/L
5076	4-Chloroaniline	LW44S	0411047-07	11/8/04	8270	4-Chloroaniline	#N/A	2.96	U	ug/L
5077	4-Chlorophenyl phenyl ether	LW44S	0411047-07	11/8/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.986	U	ug/L
5078	4-Nitroaniline	LW44S	0411047-07	11/8/04	8270	4-Nitroaniline	#N/A	4.93	U	ug/L
5079	4-Nitrophenol	LW44S	0411047-07	11/8/04	8270	4-Nitrophenol	#N/A	4.93	U	ug/L
5080	Benz(a)anthracene	LW44S	0411047-07	11/8/04	8270	Benz(a)anthracene	#N/A	0.986	U	ug/L
5081	Benzo(a)pyrene	LW44S	0411047-07	11/8/04	8270	Benzo(a)pyrene	#N/A	0.986	U	ug/L
5082	Benzo(b)fluoranthene	LW44S	0411047-07	11/8/04	8270	Benzo(b)fluoranthene	#N/A	0.986	U	ug/L
5083	Benzo(g,h,i)perylene	LW44S	0411047-07	11/8/04	8270	Benzo(g,h,i)perylene	#N/A	0.986	U	ug/L
5084	Benzo(k)fluoranthene	LW44S	0411047-07	11/8/04	8270	Benzo(k)fluoranthene	#N/A	0.986	U	ug/L
5085	Benzyl Alcohol	LW44S	0411047-07	11/8/04	8270	Benzyl Alcohol	#N/A	4.93	U	ug/L
5086	Bis(2-chloroethoxy)methane	LW44S	0411047-07	11/8/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.986	U	ug/L
5087	Bis(2-chloroethyl)ether	LW44S	0411047-07	11/8/04	8270	Bis(2-chloroethyl)ether	#N/A	1.97	U	ug/L
5088	Bis(2-chloroisopropyl)ether	LW44S	0411047-07	11/8/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.986	U	ug/L
5089	Butyl benzyl phthalate	LW44S	0411047-07	11/8/04	8270	Butyl benzyl phthalate	#N/A	0.986	U	ug/L
5090	Carbazole	LW44S	0411047-07	11/8/04	8270	Carbazole	#N/A	0.986	U	ug/L
5091	Chrysene	LW44S	0411047-07	11/8/04	8270	Chrysene	#N/A	0.986	U	ug/L
5092	Dibenz(a,h)anthracene	LW44S	0411047-07	11/8/04	8270	Dibenz(a,h)anthracene	#N/A	0.986	U	ug/L
5093	Diethyl phthalate	LW44S	0411047-07	11/8/04	8270	Diethyl phthalate	#N/A	0.986	U	ug/L
5094	Dimethyl phthalate	LW44S	0411047-07	11/8/04	8270	Dimethyl phthalate	#N/A	0.986	U	ug/L
5095	Di-n-butyl phthalate	LW44S	0411047-07	11/8/04	8270	Di-n-butyl phthalate	#N/A	0.986	U	ug/L
5096	Di-n-octyl phthalate	LW44S	0411047-07	11/8/04	8270	Di-n-octyl phthalate	#N/A	0.986	U	ug/L
5097	Fluoranthene	LW44S	0411047-07	11/8/04	8270	Fluoranthene	#N/A	0.986	U	ug/L
5098	Hexachlorobenzene	LW44S	0411047-07	11/8/04	8270	Hexachlorobenzene	#N/A	0.986	U	ug/L
5099	Hexachlorobutadiene	LW44S	0411047-07	11/8/04	8270	Hexachlorobutadiene	#N/A	1.97	U	ug/L
5100	Hexachlorocyclopentadiene	LW44S	0411047-07	11/8/04	8270	Hexachlorocyclopentadiene	#N/A	4.93	U	ug/L
5101	Hexachloroethane	LW44S	0411047-07	11/8/04	8270	Hexachloroethane	#N/A	1.97	U	ug/L
5102	Indeno(1,2,3-cd)pyrene	LW44S	0411047-07	11/8/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.986	U	ug/L
5103	Nitrobenzene	LW44S	0411047-07	11/8/04	8270	Nitrobenzene	#N/A	0.986	U	ug/L
5104	N-Nitrosodimethylamine	LW44S	0411047-07	11/8/04	8270	N-Nitrosodimethylamine	#N/A	0.986	U	ug/L
5105	N-Nitrosodi-n-propylamine	LW44S	0411047-07	11/8/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.97	U	ug/L
5106	N-Nitrosodiphenylamine	LW44S	0411047-07	11/8/04	8270	N-Nitrosodiphenylamine	#N/A	0.986	U	ug/L
5107	Phenanthrene	LW44S	0411047-07	11/8/04	8270	Phenanthrene	#N/A	0.986	U	ug/L
5108	Pyrene	LW44S	0411047-07	11/8/04	8270	Pyrene	#N/A	0.986	U	ug/L
5109	Pyridine	LW44S	0411047-07	11/8/04	8270	Pyridine	#N/A	4.93	U	ug/L
5110	Benz(a)anthracene	LW44S	0411047-07	11/8/04	8270SIM	Benz(a)anthracene	#N/A	0.0498	U	ug/L

	A	B	C	D	E	F	G	H	I	J
5111	Benzo(a)pyrene	LW44S	0411047-07	11/8/04	8270SIM	Benzo(a)pyrene	#N/A	0.0498	U	ug/L
5112	Benzo(b)fluoranthene	LW44S	0411047-07	11/8/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0498	U	ug/L
5113	Benzo(g,h,i)perylene	LW44S	0411047-07	11/8/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0498	U	ug/L
5114	Benzo(k)fluoranthene	LW44S	0411047-07	11/8/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0498	U	ug/L
5115	Chrysene	LW44S	0411047-07	11/8/04	8270SIM	Chrysene	#N/A	0.0498	U	ug/L
5116	Dibenz(a,h)anthracene	LW44S	0411047-07	11/8/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0498	U	ug/L
5117	Fluoranthene	LW44S	0411047-07	11/8/04	8270SIM	Fluoranthene	#N/A	0.0498	U	ug/L
5118	Indeno(1,2,3-cd)pyrene	LW44S	0411047-07	11/8/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0498	U	ug/L
5119	Phenanthrene	LW44S	0411047-07	11/8/04	8270SIM	Phenanthrene	#N/A	0.0498	U	ug/L
5120	Pyrene	LW44S	0411047-07	11/8/04	8270SIM	Pyrene	#N/A	0.0498	U	ug/L
5121	Turbidity	LW44S	0411047-07	11/8/04	FIELD	Turbidity	#N/A	17		ntu
5122	Pentachlorophenol	LW45D	0411065-04	11/11/04	8270	Pentachlorophenol	3	5.19	U	ug/L
5123	Phenol	LW45D	0411065-04	11/11/04	8270	Phenol	13	2.08	U	ug/L
5124	3-&4-Methylphenol	LW45D	0411065-04	11/11/04	8270	3-&4-Methylphenol	14	10.4	U	ug/L
5125	Isophorone	LW45D	0411065-04	11/11/04	8270	Isophorone	15	1.04	U	ug/L
5126	2,4-Dimethylphenol	LW45D	0411065-04	11/11/04	8270	2,4-Dimethylphenol	16	3.12	U	ug/L
5127	Benzoic Acid	LW45D	0411065-04	11/11/04	8270	Benzoic Acid	17	20.8	U	ug/L
5128	Naphthalene	LW45D	0411065-04	11/11/04	8270	Naphthalene	18	1.04	U	ug/L
5129	2-Methylnaphthalene	LW45D	0411065-04	11/11/04	8270	2-Methylnaphthalene	19	1.04	U	ug/L
5130	2,4,6-Trichlorophenol	LW45D	0411065-04	11/11/04	8270	2,4,6-Trichlorophenol	20	5.19	U	ug/L
5131	2,4,5-Trichlorophenol	LW45D	0411065-04	11/11/04	8270	2,4,5-Trichlorophenol	21	5.19	U	ug/L
5132	Acenaphthene	LW45D	0411065-04	11/11/04	8270	Acenaphthene	22	1.04	U	ug/L
5133	Dibenzofuran	LW45D	0411065-04	11/11/04	8270	Dibenzofuran	23	1.04	U	ug/L
5134	Fluorene	LW45D	0411065-04	11/11/04	8270	Fluorene	24	1.06	U	ug/L
5135	Bis(2-ethylhexyl)phthalate	LW45D	0411065-04	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	**3.97**		ug/L
5136	Acetone	LW45D	0411065-04	11/11/04	8260	Acetone	30	50	U	ug/L
5137	Carbon disulfide	LW45D	0411065-04	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
5138	2-Butanone	LW45D	0411065-04	11/11/04	8260	2-Butanone	32	10	U	ug/L
5139	Benzene	LW45D	0411065-04	11/11/04	8260	Benzene	33	**0.4**		ug/L
5140	Bromoform	LW45D	0411065-04	11/11/04	8260	Bromoform	34	1	U	ug/L
5141	Toluene	LW45D	0411065-04	11/11/04	8260	Toluene	35	1	U	ug/L
5142	Ethylbenzene	LW45D	0411065-04	11/11/04	8260	Ethylbenzene	36	1	U	ug/L
5143	Styrene	LW45D	0411065-04	11/11/04	8260	Styrene	37	1	U	ug/L
5144	m,p-Xylene	LW45D	0411065-04	11/11/04	8260	m,p-Xylene	38	2	U	ug/L
5145	o-Xylene	LW45D	0411065-04	11/11/04	8260	o-Xylene	39	**1.53**		ug/L
5146	1,3,5-Trimethylbenzene	LW45D	0411065-04	11/11/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
5147	1,2,4-Trimethylbenzene	LW45D	0411065-04	11/11/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
5148	Isopropylbenzene	LW45D	0411065-04	11/11/04	8260	Isopropylbenzene	42	**18.3**		ug/L
5149	n-Propylbenzene	LW45D	0411065-04	11/11/04	8260	n-Propylbenzene	43	**4.92**		ug/L
5150	tert-Butylbenzene	LW45D	0411065-04	11/11/04	8260	tert-Butylbenzene	44	1	U	ug/L
5151	sec-Butylbenzene	LW45D	0411065-04	11/11/04	8260	sec-Butylbenzene	45	**2.85**		ug/L
5152	4-Isopropyltoluene	LW45D	0411065-04	11/11/04	8260	4-Isopropyltoluene	46	1	U	ug/L
5153	n-Butylbenzene	LW45D	0411065-04	11/11/04	8260	n-Butylbenzene	47	**1.33**		ug/L
5154	Naphthalene	LW45D	0411065-04	11/11/04	8260	Naphthalene	48	1	U	ug/L
5155	Methyl tert-butyl ether	LW45D	0411065-04	11/11/04	8260	Methyl tert-butyl ether	49	**1.88**		ug/L
5156	Diesel Range Hydrocarbons	LW45D	0411065-04	11/11/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**3.91**		mg/L
5157	Lube Oil	LW45D	0411065-04	11/11/04	NWTPH-Dx	Lube Oil	54	**1.9**		mg/L
5158	Gasoline Range Hydrocarbons	LW45D	0411065-04	11/11/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**0.776**		ug/L
5159	Arsenic	LW45D	0411065-04	11/11/04	6020	Arsenic	59	**0.0532**		ug/L
5160	Chromium	LW45D	0411065-04	11/11/04	6010	Chromium	60	**0.14**		mg/L
5161	Copper	LW45D	0411065-04	11/11/04	6010	Copper	61	**0.12**		mg/L
5162	Lead	LW45D	0411065-04	11/11/04	6020	Lead	62	**0.106**		ug/L
5163	Nickel	LW45D	0411065-04	11/11/04	6010	Nickel	63	**0.132**		mg/L
5164	Zinc	LW45D	0411065-04	11/11/04	6010	Zinc	64	**0.416**		mg/L
5165	Total Dissolved Solids	LW45D	0411065-04	11/11/04	1601	Total Dissolved Solids	74	**388**		mg/L
5166	Chloride	LW45D	0411065-04	11/11/04	9056	Chloride	75	**0.51**		mg/L
5167	pH	LW45D	0411065-04	11/11/04	FIELD	pH	82	6.59		s.u.
5168	Temperature	LW45D	0411065-04	11/11/04	FIELD	Temperature	83	14		c
5169	Conductivity	LW45D	0411065-04	11/11/04	FIELD	Conductivity	84	597		us
5170	Dissolved oxygen	LW45D	0411065-04	11/11/04	FIELD	Dissolved oxygen	85	0.58		mg/l
5171	Naphthalene	LW45D	0411065-04	11/11/04	8270SIM	Naphthalene	119	**0.557**		ug/L
5172	Acenaphthylene	LW45D	0411065-04	11/11/04	8270SIM	Acenaphthylene	121	**0.105**		ug/L
5173	Acenaphthene	LW45D	0411065-04	11/11/04	8270SIM	Acenaphthene	122	**0.473**		ug/L
5174	Fluorene	LW45D	0411065-04	11/11/04	8270SIM	Fluorene	123	**0.935**		ug/L
5175	Anthracene	LW45D	0411065-04	11/11/04	8270SIM	Anthracene	124	**5.44**		ug/L
5176	1,1,1,2-Tetrachloroethane	LW45D	0411065-04	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
5177	1,1,1-Trichloroethane	LW45D	0411065-04	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
5178	1,1,2,2-Tetrachloroethane	LW45D	0411065-04	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
5179	1,1,2-Trichloroethane	LW45D	0411065-04	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
5180	1,1-Dichloroethane	LW45D	0411065-04	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
5181	1,1-Dichloroethene	LW45D	0411065-04	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
5182	1,1-Dichloropropene	LW45D	0411065-04	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
5183	1,2,3-Trichlorobenzene	LW45D	0411065-04	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
5184	1,2,3-Trichloropropane	LW45D	0411065-04	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
5185	1,2,4-Trichlorobenzene	LW45D	0411065-04	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
5186	1,2-Dibromo-3-chloropropane	LW45D	0411065-04	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
5187	1,2-Dibromoethane	LW45D	0411065-04	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
5188	1,2-Dichlorobenzene	LW45D	0411065-04	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
5189	1,2-Dichloroethane	LW45D	0411065-04	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
5190	1,2-Dichloropropane	LW45D	0411065-04	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
5191	1,3-Dichlorobenzene	LW45D	0411065-04	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
5192	1,3-Dichloropropane	LW45D	0411065-04	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
5193	1,4-Dichlorobenzene	LW45D	0411065-04	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
5194	2,2-Dichloropropane	LW45D	0411065-04	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
5195	2-Chlorotoluene	LW45D	0411065-04	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
5196	2-Hexanone	LW45D	0411065-04	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
5197	4-Chlorotoluene	LW45D	0411065-04	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
5198	4-Methyl-2-pentanone	LW45D	0411065-04	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
5199	Acrylonitrile	LW45D	0411065-04	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
5200	Bromobenzene	LW45D	0411065-04	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
5201	Bromochloromethane	LW45D	0411065-04	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
5202	Bromodichloromethane	LW45D	0411065-04	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
5203	Bromomethane	LW45D	0411065-04	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
5204	Carbon tetrachloride	LW45D	0411065-04	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
5205	Chlorobenzene	LW45D	0411065-04	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
5206	Chloroethane	LW45D	0411065-04	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
5207	Chloroform	LW45D	0411065-04	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
5208	Chloromethane	LW45D	0411065-04	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
5209	cis-1,2-Dichloroethene	LW45D	0411065-04	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
5210	cis-1,3-Dichloropropene	LW45D	0411065-04	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
5211	Dibromochloromethane	LW45D	0411065-04	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
5212	Dibromomethane	LW45D	0411065-04	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
5213	Dichlorodifluoromethane	LW45D	0411065-04	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
5214	Hexachlorobutadiene	LW45D	0411065-04	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
5215	Methylene chloride	LW45D	0411065-04	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
5216	Tetrachloroethene	LW45D	0411065-04	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
5217	trans-1,2-Dichloroethene	LW45D	0411065-04	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
5218	trans-1,3-Dichloropropene	LW45D	0411065-04	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
5219	Trichloroethene	LW45D	0411065-04	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
5220	Trichlorofluoromethane	LW45D	0411065-04	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
5221	Vinyl chloride	LW45D	0411065-04	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
5222	1,2,4-Trichlorobenzene	LW45D	0411065-04	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	1.04	U	ug/L
5223	1,2-Dichlorobenzene	LW45D	0411065-04	11/11/04	8270	1,2-Dichlorobenzene	#N/A	1.04	U	ug/L
5224	1,3-Dichlorobenzene	LW45D	0411065-04	11/11/04	8270	1,3-Dichlorobenzene	#N/A	1.04	U	ug/L
5225	1,4-Dichlorobenzene	LW45D	0411065-04	11/11/04	8270	1,4-Dichlorobenzene	#N/A	1.04	U	ug/L
5226	2,4-Dichlorophenol	LW45D	0411065-04	11/11/04	8270	2,4-Dichlorophenol	#N/A	3.12	U	ug/L
5227	2,4-Dinitrophenol	LW45D	0411065-04	11/11/04	8270	2,4-Dinitrophenol	#N/A	10.4	U	ug/L
5228	2,4-Dinitrotoluene	LW45D	0411065-04	11/11/04	8270	2,4-Dinitrotoluene	#N/A	5.19	U	ug/L
5229	2,6-Dinitrotoluene	LW45D	0411065-04	11/11/04	8270	2,6-Dinitrotoluene	#N/A	5.19	U	ug/L
5230	2-Chloronaphthalene	LW45D	0411065-04	11/11/04	8270	2-Chloronaphthalene	#N/A	1.04	U	ug/L
5231	2-Chlorophenol	LW45D	0411065-04	11/11/04	8270	2-Chlorophenol	#N/A	1.04	U	ug/L
5232	2-Methylphenol	LW45D	0411065-04	11/11/04	8270	2-Methylphenol	#N/A	2.08	U	ug/L
5233	2-Nitroaniline	LW45D	0411065-04	11/11/04	8270	2-Nitroaniline	#N/A	5.19	U	ug/L
5234	2-Nitrophenol	LW45D	0411065-04	11/11/04	8270	2-Nitrophenol	#N/A	5.19	U	ug/L
5235	3,3'-Dichlorobenzidine	LW45D	0411065-04	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	5.19	U	ug/L
5236	3-Nitroaniline	LW45D	0411065-04	11/11/04	8270	3-Nitroaniline	#N/A	6.23	U	ug/L
5237	4,6-Dinitro-2-methylphenol	LW45D	0411065-04	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.4	U	ug/L
5238	4-Bromophenyl phenyl ether	LW45D	0411065-04	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	1.04	U	ug/L
5239	4-Chloro-3-methylphenol	LW45D	0411065-04	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	2.08	U	ug/L
5240	4-Chloroaniline	LW45D	0411065-04	11/11/04	8270	4-Chloroaniline	#N/A	3.12	U	ug/L
5241	4-Chlorophenyl phenyl ether	LW45D	0411065-04	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.04	U	ug/L
5242	4-Nitroaniline	LW45D	0411065-04	11/11/04	8270	4-Nitroaniline	#N/A	5.19	U	ug/L
5243	4-Nitrophenol	LW45D	0411065-04	11/11/04	8270	4-Nitrophenol	#N/A	5.19	U	ug/L
5244	Benz(a)anthracene	LW45D	0411065-04	11/11/04	8270	Benz(a)anthracene	#N/A	1.04	U	ug/L
5245	Benzo(a)pyrene	LW45D	0411065-04	11/11/04	8270	Benzo(a)pyrene	#N/A	1.04	U	ug/L
5246	Benzo(b)fluoranthene	LW45D	0411065-04	11/11/04	8270	Benzo(b)fluoranthene	#N/A	1.04	U	ug/L
5247	Benzo(g,h,i)perylene	LW45D	0411065-04	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	1.04	U	ug/L
5248	Benzo(k)fluoranthene	LW45D	0411065-04	11/11/04	8270	Benzo(k)fluoranthene	#N/A	1.04	U	ug/L
5249	Benzyl Alcohol	LW45D	0411065-04	11/11/04	8270	Benzyl Alcohol	#N/A	5.19	U	ug/L
5250	Bis(2-chloroethoxy)methane	LW45D	0411065-04	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.04	U	ug/L
5251	Bis(2-chloroethyl)ether	LW45D	0411065-04	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	2.08	U	ug/L
5252	Bis(2-chloroisopropyl)ether	LW45D	0411065-04	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.04	U	ug/L
5253	Butyl benzyl phthalate	LW45D	0411065-04	11/11/04	8270	Butyl benzyl phthalate	#N/A	1.04	U	ug/L
5254	Carbazole	LW45D	0411065-04	11/11/04	8270	Carbazole	#N/A	**4.35**		ug/L
5255	Chrysene	LW45D	0411065-04	11/11/04	8270	Chrysene	#N/A	1.04	U	ug/L
5256	Dibenz(a,h)anthracene	LW45D	0411065-04	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	1.04	U	ug/L

	A	B	C	D	E	F	G	H	I	J
5257	Diethyl phthalate	LW45D	0411065-04	11/11/04	8270	Diethyl phthalate	#N/A	1.04	U	ug/L
5258	Dimethyl phthalate	LW45D	0411065-04	11/11/04	8270	Dimethyl phthalate	#N/A	1.04	U	ug/L
5259	Di-n-butyl phthalate	LW45D	0411065-04	11/11/04	8270	Di-n-butyl phthalate	#N/A	1.04	U	ug/L
5260	Di-n-octyl phthalate	LW45D	0411065-04	11/11/04	8270	Di-n-octyl phthalate	#N/A	1.04	U	ug/L
5261	Fluoranthene	LW45D	0411065-04	11/11/04	8270	Fluoranthene	#N/A	1.04	U	ug/L
5262	Hexachlorobenzene	LW45D	0411065-04	11/11/04	8270	Hexachlorobenzene	#N/A	1.04	U	ug/L
5263	Hexachlorobutadiene	LW45D	0411065-04	11/11/04	8270	Hexachlorobutadiene	#N/A	2.08	U	ug/L
5264	Hexachlorocyclopentadiene	LW45D	0411065-04	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	5.19	U	ug/L
5265	Hexachloroethane	LW45D	0411065-04	11/11/04	8270	Hexachloroethane	#N/A	2.08	U	ug/L
5266	Indeno(1,2,3-cd)pyrene	LW45D	0411065-04	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.04	U	ug/L
5267	Nitrobenzene	LW45D	0411065-04	11/11/04	8270	Nitrobenzene	#N/A	1.04	U	ug/L
5268	N-Nitrosodimethylamine	LW45D	0411065-04	11/11/04	8270	N-Nitrosodimethylamine	#N/A	1.04	U	ug/L
5269	N-Nitrosodi-n-propylamine	LW45D	0411065-04	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.08	U	ug/L
5270	N-Nitrosodiphenylamine	LW45D	0411065-04	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	1.04	U	ug/L
5271	Phenanthrene	LW45D	0411065-04	11/11/04	8270	Phenanthrene	#N/A	1.04	U	ug/L
5272	Pyrene	LW45D	0411065-04	11/11/04	8270	Pyrene	#N/A	1.04	U	ug/L
5273	Pyridine	LW45D	0411065-04	11/11/04	8270	Pyridine	#N/A	5.19	U	ug/L
5274	Benz(a)anthracene	LW45D	0411065-04	11/11/04	8270SIM	Benz(a)anthracene	#N/A	0.0525	U	ug/L
5275	Benzo(a)pyrene	LW45D	0411065-04	11/11/04	8270SIM	Benzo(a)pyrene	#N/A	0.0525	U	ug/L
5276	Benzo(b)fluoranthene	LW45D	0411065-04	11/11/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0525	U	ug/L
5277	Benzo(g,h,i)perylene	LW45D	0411065-04	11/11/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0525	U	ug/L
5278	Benzo(k)fluoranthene	LW45D	0411065-04	11/11/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0525	U	ug/L
5279	Chrysene	LW45D	0411065-04	11/11/04	8270SIM	Chrysene	#N/A	0.0525	U	ug/L
5280	Dibenz(a,h)anthracene	LW45D	0411065-04	11/11/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0525	U	ug/L
5281	Fluoranthene	LW45D	0411065-04	11/11/04	8270SIM	Fluoranthene	#N/A	**0.116**		ug/L
5282	Indeno(1,2,3-cd)pyrene	LW45D	0411065-04	11/11/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0525	U	ug/L
5283	Phenanthrene	LW45D	0411065-04	11/11/04	8270SIM	Phenanthrene	#N/A	**0.399**		ug/L
5284	Pyrene	LW45D	0411065-04	11/11/04	8270SIM	Pyrene	#N/A	**0.0945**		ug/L
5285	Turbidity	LW45D	0411065-04	11/11/04	FIELD	Turbidity	#N/A	999		ntu
5286	Pentachlorophenol	LW4DR	0411151-01	11/29/04	8270	Pentachlorophenol	3	4.97	U	ug/L
5287	Phenol	LW4DR	0411151-01	11/29/04	8270	Phenol	13	1.99	U	ug/L
5288	3-&4-Methylphenol	LW4DR	0411151-01	11/29/04	8270	3-&4-Methylphenol	14	9.94	U	ug/L
5289	Isophorone	LW4DR	0411151-01	11/29/04	8270	Isophorone	15	0.994	U	ug/L
5290	2,4-Dimethylphenol	LW4DR	0411151-01	11/29/04	8270	2,4-Dimethylphenol	16	2.98	U	ug/L
5291	Benzoic Acid	LW4DR	0411151-01	11/29/04	8270	Benzoic Acid	17	19.9	U	ug/L
5292	Naphthalene	LW4DR	0411151-01	11/29/04	8270	Naphthalene	18	0.994	U	ug/L
5293	2-Methylnaphthalene	LW4DR	0411151-01	11/29/04	8270	2-Methylnaphthalene	19	0.994	U	ug/L
5294	2,4,6-Trichlorophenol	LW4DR	0411151-01	11/29/04	8270	2,4,6-Trichlorophenol	20	4.97	U	ug/L
5295	2,4,5-Trichlorophenol	LW4DR	0411151-01	11/29/04	8270	2,4,5-Trichlorophenol	21	4.97	U	ug/L
5296	Acenaphthene	LW4DR	0411151-01	11/29/04	8270	Acenaphthene	22	0.994	U	ug/L
5297	Dibenzofuran	LW4DR	0411151-01	11/29/04	8270	Dibenzofuran	23	0.994	U	ug/L
5298	Fluorene	LW4DR	0411151-01	11/29/04	8270	Fluorene	24	0.994	U	ug/L
5299	Pentachlorophenol	LW4DR	0411151-01	11/29/04	8270SIM	Pentachlorophenol	25	**1.08**		ug/L
5300	Bis(2-ethylhexyl)phthalate	LW4DR	0411151-01	11/29/04	8270	Bis(2-ethylhexyl)phthalate	26	**2.83**		ug/L
5301	Acetone	LW4DR	0411151-01	11/29/04	8260	Acetone	30	50	U	ug/L
5302	Carbon disulfide	LW4DR	0411151-01	11/29/04	8260	Carbon disulfide	31	2	U	ug/L
5303	2-Butanone	LW4DR	0411151-01	11/29/04	8260	2-Butanone	32	10	U	ug/L
5304	Benzene	LW4DR	0411151-01	11/29/04	8260	Benzene	33	**0.32**		ug/L
5305	Bromoform	LW4DR	0411151-01	11/29/04	8260	Bromoform	34	1	U	ug/L
5306	Toluene	LW4DR	0411151-01	11/29/04	8260	Toluene	35	1	U	ug/L
5307	Ethylbenzene	LW4DR	0411151-01	11/29/04	8260	Ethylbenzene	36	1	U	ug/L
5308	Styrene	LW4DR	0411151-01	11/29/04	8260	Styrene	37	1	U	ug/L
5309	m,p-Xylene	LW4DR	0411151-01	11/29/04	8260	m,p-Xylene	38	2	U	ug/L
5310	o-Xylene	LW4DR	0411151-01	11/29/04	8260	o-Xylene	39	1	U	ug/L
5311	1,3,5-Trimethylbenzene	LW4DR	0411151-01	11/29/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
5312	1,2,4-Trimethylbenzene	LW4DR	0411151-01	11/29/04	8260	1,2,4-Trimethylbenzene	41	**1.9**		ug/L
5313	Isopropylbenzene	LW4DR	0411151-01	11/29/04	8260	Isopropylbenzene	42	**1.51**		ug/L
5314	n-Propylbenzene	LW4DR	0411151-01	11/29/04	8260	n-Propylbenzene	43	1	U	ug/L
5315	tert-Butylbenzene	LW4DR	0411151-01	11/29/04	8260	tert-Butylbenzene	44	1	U	ug/L
5316	sec-Butylbenzene	LW4DR	0411151-01	11/29/04	8260	sec-Butylbenzene	45	1	U	ug/L
5317	4-Isopropyltoluene	LW4DR	0411151-01	11/29/04	8260	4-Isopropyltoluene	46	1	U	ug/L
5318	n-Butylbenzene	LW4DR	0411151-01	11/29/04	8260	n-Butylbenzene	47	1	U	ug/L
5319	Naphthalene	LW4DR	0411151-01	11/29/04	8260	Naphthalene	48	**4.29**		ug/L
5320	Methyl tert-butyl ether	LW4DR	0411151-01	11/29/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
5321	Diesel Range Hydrocarbons	LW4DR	0411151-01	11/29/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.353**		mg/L
5322	Lube Oil	LW4DR	0411151-01	11/29/04	NWTPH-Dx	Lube Oil	54	**0.529**		mg/L
5323	Arsenic	LW4DR	0411151-01	11/29/04	6020	Arsenic	59	**0.0101**		ug/L
5324	Chromium	LW4DR	0411151-01	11/29/04	6010	Chromium	60	**0.0076**		mg/L
5325	Copper	LW4DR	0411151-01	11/29/04	6010	Copper	61	0.01	U	mg/L
5326	Lead	LW4DR	0411151-01	11/29/04	6020	Lead	62	**0.00202**		ug/L
5327	Nickel	LW4DR	0411151-01	11/29/04	6010	Nickel	63	**0.008**		mg/L
5328	Zinc	LW4DR	0411151-01	11/29/04	6010	Zinc	64	**0.19**		mg/L
5329	Total Dissolved Solids	LW4DR	0411151-01	11/29/04	1601	Total Dissolved Solids	74	**262**		mg/L

	A	B	C	D	E	F	G	H	I	J
5330	Chloride	LW4DR	0411151-01	11/29/04	9056	Chloride	75	**4.93**		mg/L
5331	pH	LW4DR	0411151-01	11/29/04	FIELD	pH	82	5.95		s.u.
5332	Temperature	LW4DR	0411151-01	11/29/04	FIELD	Temperature	83	12.3		c
5333	Conductivity	LW4DR	0411151-01	11/29/04	FIELD	Conductivity	84	436		us
5334	Dissolved oxygen	LW4DR	0411151-01	11/29/04	FIELD	Dissolved oxygen	85	999		mg/l
5335	1,1,1,2-Tetrachloroethane	LW4DR	0411151-01	11/29/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
5336	1,1,1-Trichloroethane	LW4DR	0411151-01	11/29/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
5337	1,1,2,2-Tetrachloroethane	LW4DR	0411151-01	11/29/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
5338	1,1,2-Trichloroethane	LW4DR	0411151-01	11/29/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
5339	1,1-Dichloroethane	LW4DR	0411151-01	11/29/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
5340	1,1-Dichloroethene	LW4DR	0411151-01	11/29/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
5341	1,1-Dichloropropene	LW4DR	0411151-01	11/29/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
5342	1,2,3-Trichlorobenzene	LW4DR	0411151-01	11/29/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
5343	1,2,3-Trichloropropane	LW4DR	0411151-01	11/29/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
5344	1,2,4-Trichlorobenzene	LW4DR	0411151-01	11/29/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
5345	1,2-Dibromo-3-chloropropane	LW4DR	0411151-01	11/29/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
5346	1,2-Dibromoethane	LW4DR	0411151-01	11/29/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
5347	1,2-Dichlorobenzene	LW4DR	0411151-01	11/29/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
5348	1,2-Dichloroethane	LW4DR	0411151-01	11/29/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
5349	1,2-Dichloropropane	LW4DR	0411151-01	11/29/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
5350	1,3-Dichlorobenzene	LW4DR	0411151-01	11/29/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
5351	1,3-Dichloropropane	LW4DR	0411151-01	11/29/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
5352	1,4-Dichlorobenzene	LW4DR	0411151-01	11/29/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
5353	2,2-Dichloropropane	LW4DR	0411151-01	11/29/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
5354	2-Chlorotoluene	LW4DR	0411151-01	11/29/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
5355	2-Hexanone	LW4DR	0411151-01	11/29/04	8260	2-Hexanone	#N/A	10	U	ug/L
5356	4-Chlorotoluene	LW4DR	0411151-01	11/29/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
5357	4-Methyl-2-pentanone	LW4DR	0411151-01	11/29/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
5358	Acrylonitrile	LW4DR	0411151-01	11/29/04	8260	Acrylonitrile	#N/A	5	U	ug/L
5359	Bromobenzene	LW4DR	0411151-01	11/29/04	8260	Bromobenzene	#N/A	1	U	ug/L
5360	Bromochloromethane	LW4DR	0411151-01	11/29/04	8260	Bromochloromethane	#N/A	1	U	ug/L
5361	Bromodichloromethane	LW4DR	0411151-01	11/29/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
5362	Bromomethane	LW4DR	0411151-01	11/29/04	8260	Bromomethane	#N/A	1	U	ug/L
5363	Carbon tetrachloride	LW4DR	0411151-01	11/29/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
5364	Chlorobenzene	LW4DR	0411151-01	11/29/04	8260	Chlorobenzene	#N/A	1	U	ug/L
5365	Chloroethane	LW4DR	0411151-01	11/29/04	8260	Chloroethane	#N/A	1	U	ug/L
5366	Chloroform	LW4DR	0411151-01	11/29/04	8260	Chloroform	#N/A	**3.88**		ug/L
5367	Chloromethane	LW4DR	0411151-01	11/29/04	8260	Chloromethane	#N/A	1	U	ug/L
5368	cis-1,2-Dichloroethene	LW4DR	0411151-01	11/29/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
5369	cis-1,3-Dichloropropene	LW4DR	0411151-01	11/29/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
5370	Dibromochloromethane	LW4DR	0411151-01	11/29/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
5371	Dibromomethane	LW4DR	0411151-01	11/29/04	8260	Dibromomethane	#N/A	1	U	ug/L
5372	Dichlorodifluoromethane	LW4DR	0411151-01	11/29/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
5373	Hexachlorobutadiene	LW4DR	0411151-01	11/29/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
5374	Methylene chloride	LW4DR	0411151-01	11/29/04	8260	Methylene chloride	#N/A	20	U	ug/L
5375	Tetrachloroethene	LW4DR	0411151-01	11/29/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
5376	trans-1,2-Dichloroethene	LW4DR	0411151-01	11/29/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
5377	trans-1,3-Dichloropropene	LW4DR	0411151-01	11/29/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
5378	Trichloroethene	LW4DR	0411151-01	11/29/04	8260	Trichloroethene	#N/A	1	U	ug/L
5379	Trichlorofluoromethane	LW4DR	0411151-01	11/29/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
5380	Vinyl chloride	LW4DR	0411151-01	11/29/04	8260	Vinyl chloride	#N/A	1	U	ug/L
5381	1,2,4-Trichlorobenzene	LW4DR	0411151-01	11/29/04	8270	1,2,4-Trichlorobenzene	#N/A	0.994	U	ug/L
5382	1,2-Dichlorobenzene	LW4DR	0411151-01	11/29/04	8270	1,2-Dichlorobenzene	#N/A	0.994	U	ug/L
5383	1,3-Dichlorobenzene	LW4DR	0411151-01	11/29/04	8270	1,3-Dichlorobenzene	#N/A	0.994	U	ug/L
5384	1,4-Dichlorobenzene	LW4DR	0411151-01	11/29/04	8270	1,4-Dichlorobenzene	#N/A	0.994	U	ug/L
5385	2,4-Dichlorophenol	LW4DR	0411151-01	11/29/04	8270	2,4-Dichlorophenol	#N/A	2.98	U	ug/L
5386	2,4-Dinitrophenol	LW4DR	0411151-01	11/29/04	8270	2,4-Dinitrophenol	#N/A	9.94	U	ug/L
5387	2,4-Dinitrotoluene	LW4DR	0411151-01	11/29/04	8270	2,4-Dinitrotoluene	#N/A	4.97	U	ug/L
5388	2,6-Dinitrotoluene	LW4DR	0411151-01	11/29/04	8270	2,6-Dinitrotoluene	#N/A	4.97	U	ug/L
5389	2-Chloronaphthalene	LW4DR	0411151-01	11/29/04	8270	2-Chloronaphthalene	#N/A	0.994	U	ug/L
5390	2-Chlorophenol	LW4DR	0411151-01	11/29/04	8270	2-Chlorophenol	#N/A	0.994	U	ug/L
5391	2-Methylphenol	LW4DR	0411151-01	11/29/04	8270	2-Methylphenol	#N/A	1.99	U	ug/L
5392	2-Nitroaniline	LW4DR	0411151-01	11/29/04	8270	2-Nitroaniline	#N/A	4.97	U	ug/L
5393	2-Nitrophenol	LW4DR	0411151-01	11/29/04	8270	2-Nitrophenol	#N/A	4.97	U	ug/L
5394	3,3'-Dichlorobenzidine	LW4DR	0411151-01	11/29/04	8270	3,3'-Dichlorobenzidine	#N/A	4.97	U	ug/L
5395	3-Nitroaniline	LW4DR	0411151-01	11/29/04	8270	3-Nitroaniline	#N/A	5.96	U	ug/L
5396	4,6-Dinitro-2-methylphenol	LW4DR	0411151-01	11/29/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.94	U	ug/L
5397	4-Bromophenyl phenyl ether	LW4DR	0411151-01	11/29/04	8270	4-Bromophenyl phenyl ether	#N/A	0.994	U	ug/L
5398	4-Chloro-3-methylphenol	LW4DR	0411151-01	11/29/04	8270	4-Chloro-3-methylphenol	#N/A	1.99	U	ug/L
5399	4-Chloroaniline	LW4DR	0411151-01	11/29/04	8270	4-Chloroaniline	#N/A	2.98	U	ug/L
5400	4-Chlorophenyl phenyl ether	LW4DR	0411151-01	11/29/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.994	U	ug/L
5401	4-Nitroaniline	LW4DR	0411151-01	11/29/04	8270	4-Nitroaniline	#N/A	4.97	U	ug/L
5402	4-Nitrophenol	LW4DR	0411151-01	11/29/04	8270	4-Nitrophenol	#N/A	4.97	U	ug/L

	A	B	C	D	E	F	G	H	I	J
5403	Benz(a)anthracene	LW4DR	0411151-01	11/29/04	8270	Benz(a)anthracene	#N/A	0.994	U	ug/L
5404	Benzo(a)pyrene	LW4DR	0411151-01	11/29/04	8270	Benzo(a)pyrene	#N/A	0.994	U	ug/L
5405	Benzo(b)fluoranthene	LW4DR	0411151-01	11/29/04	8270	Benzo(b)fluoranthene	#N/A	0.994	U	ug/L
5406	Benzo(g,h,i)perylene	LW4DR	0411151-01	11/29/04	8270	Benzo(g,h,i)perylene	#N/A	0.994	U	ug/L
5407	Benzo(k)fluoranthene	LW4DR	0411151-01	11/29/04	8270	Benzo(k)fluoranthene	#N/A	0.994	U	ug/L
5408	Benzyl Alcohol	LW4DR	0411151-01	11/29/04	8270	Benzyl Alcohol	#N/A	4.97	U	ug/L
5409	Bis(2-chloroethoxy)methane	LW4DR	0411151-01	11/29/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.994	U	ug/L
5410	Bis(2-chloroethyl)ether	LW4DR	0411151-01	11/29/04	8270	Bis(2-chloroethyl)ether	#N/A	1.99	U	ug/L
5411	Bis(2-chloroisopropyl)ether	LW4DR	0411151-01	11/29/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.994	U	ug/L
5412	Butyl benzyl phthalate	LW4DR	0411151-01	11/29/04	8270	Butyl benzyl phthalate	#N/A	0.994	U	ug/L
5413	Carbazole	LW4DR	0411151-01	11/29/04	8270	Carbazole	#N/A	0.994	U	ug/L
5414	Chrysene	LW4DR	0411151-01	11/29/04	8270	Chrysene	#N/A	0.994	U	ug/L
5415	Dibenz(a,h)anthracene	LW4DR	0411151-01	11/29/04	8270	Dibenz(a,h)anthracene	#N/A	0.994	U	ug/L
5416	Diethyl phthalate	LW4DR	0411151-01	11/29/04	8270	Diethyl phthalate	#N/A	0.994	U	ug/L
5417	Dimethyl phthalate	LW4DR	0411151-01	11/29/04	8270	Dimethyl phthalate	#N/A	0.994	U	ug/L
5418	Di-n-butyl phthalate	LW4DR	0411151-01	11/29/04	8270	Di-n-butyl phthalate	#N/A	0.994	U	ug/L
5419	Di-n-octyl phthalate	LW4DR	0411151-01	11/29/04	8270	Di-n-octyl phthalate	#N/A	0.994	U	ug/L
5420	Fluoranthene	LW4DR	0411151-01	11/29/04	8270	Fluoranthene	#N/A	0.994	U	ug/L
5421	Hexachlorobenzene	LW4DR	0411151-01	11/29/04	8270	Hexachlorobenzene	#N/A	0.994	U	ug/L
5422	Hexachlorobutadiene	LW4DR	0411151-01	11/29/04	8270	Hexachlorobutadiene	#N/A	1.99	U	ug/L
5423	Hexachlorocyclopentadiene	LW4DR	0411151-01	11/29/04	8270	Hexachlorocyclopentadiene	#N/A	4.97	U	ug/L
5424	Hexachloroethane	LW4DR	0411151-01	11/29/04	8270	Hexachloroethane	#N/A	1.99	U	ug/L
5425	Indeno(1,2,3-cd)pyrene	LW4DR	0411151-01	11/29/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.994	U	ug/L
5426	Nitrobenzene	LW4DR	0411151-01	11/29/04	8270	Nitrobenzene	#N/A	0.994	U	ug/L
5427	N-Nitrosodimethylamine	LW4DR	0411151-01	11/29/04	8270	N-Nitrosodimethylamine	#N/A	0.994	U	ug/L
5428	N-Nitrosodi-n-propylamine	LW4DR	0411151-01	11/29/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.99	U	ug/L
5429	N-Nitrosodiphenylamine	LW4DR	0411151-01	11/29/04	8270	N-Nitrosodiphenylamine	#N/A	0.994	U	ug/L
5430	Phenanthrene	LW4DR	0411151-01	11/29/04	8270	Phenanthrene	#N/A	0.994	U	ug/L
5431	Pyrene	LW4DR	0411151-01	11/29/04	8270	Pyrene	#N/A	0.994	U	ug/L
5432	Pyridine	LW4DR	0411151-01	11/29/04	8270	Pyridine	#N/A	4.97	U	ug/L
5433	Turbidity	LW4DR	0411151-01	11/29/04	FIELD	Turbidity	#N/A	1.02		ntu
5434	Pentachlorophenol	LW4S	0411066-12	11/11/04	8270	Pentachlorophenol	3	5.08	U	ug/L
5435	Phenol	LW4S	0411066-12	11/11/04	8270	Phenol	13	2.03	U	ug/L
5436	3-&4-Methylphenol	LW4S	0411066-12	11/11/04	8270	3-&4-Methylphenol	14	10.2	U	ug/L
5437	Isophorone	LW4S	0411066-12	11/11/04	8270	Isophorone	15	1.02	U	ug/L
5438	2,4-Dimethylphenol	LW4S	0411066-12	11/11/04	8270	2,4-Dimethylphenol	16	3.05	U	ug/L
5439	Benzoic Acid	LW4S	0411066-12	11/11/04	8270	Benzoic Acid	17	20.3	U	ug/L
5440	Naphthalene	LW4S	0411066-12	11/11/04	8270	Naphthalene	18	1.02	U	ug/L
5441	2-Methylnaphthalene	LW4S	0411066-12	11/11/04	8270	2-Methylnaphthalene	19	1.02	U	ug/L
5442	2,4,6-Trichlorophenol	LW4S	0411066-12	11/11/04	8270	2,4,6-Trichlorophenol	20	5.08	U	ug/L
5443	2,4,5-Trichlorophenol	LW4S	0411066-12	11/11/04	8270	2,4,5-Trichlorophenol	21	5.08	U	ug/L
5444	Acenaphthene	LW4S	0411066-12	11/11/04	8270	Acenaphthene	22	1.02	U	ug/L
5445	Dibenzofuran	LW4S	0411066-12	11/11/04	8270	Dibenzofuran	23	1.02	U	ug/L
5446	Fluorene	LW4S	0411066-12	11/11/04	8270	Fluorene	24	1.02	U	ug/L
5447	Pentachlorophenol	LW4S	0411066-12	11/11/04	8270SIM	Pentachlorophenol	25	0.494	U	ug/L
5448	Bis(2-ethylhexyl)phthalate	LW4S	0411066-12	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	1.02	U	ug/L
5449	Acetone	LW4S	0411066-12	11/11/04	8260	Acetone	30	50	U	ug/L
5450	Carbon disulfide	LW4S	0411066-12	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
5451	2-Butanone	LW4S	0411066-12	11/11/04	8260	2-Butanone	32	10	U	ug/L
5452	Benzene	LW4S	0411066-12	11/11/04	8260	Benzene	33	0.3	U	ug/L
5453	Bromoform	LW4S	0411066-12	11/11/04	8260	Bromoform	34	1	U	ug/L
5454	Toluene	LW4S	0411066-12	11/11/04	8260	Toluene	35	1	U	ug/L
5455	Ethylbenzene	LW4S	0411066-12	11/11/04	8260	Ethylbenzene	36	1	U	ug/L
5456	Styrene	LW4S	0411066-12	11/11/04	8260	Styrene	37	1	U	ug/L
5457	m,p-Xylene	LW4S	0411066-12	11/11/04	8260	m,p-Xylene	38	2	U	ug/L
5458	o-Xylene	LW4S	0411066-12	11/11/04	8260	o-Xylene	39	1	U	ug/L
5459	1,3,5-Trimethylbenzene	LW4S	0411066-12	11/11/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
5460	1,2,4-Trimethylbenzene	LW4S	0411066-12	11/11/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
5461	Isopropylbenzene	LW4S	0411066-12	11/11/04	8260	Isopropylbenzene	42	1	U	ug/L
5462	n-Propylbenzene	LW4S	0411066-12	11/11/04	8260	n-Propylbenzene	43	1	U	ug/L
5463	tert-Butylbenzene	LW4S	0411066-12	11/11/04	8260	tert-Butylbenzene	44	1	U	ug/L
5464	sec-Butylbenzene	LW4S	0411066-12	11/11/04	8260	sec-Butylbenzene	45	1	U	ug/L
5465	4-Isopropyltoluene	LW4S	0411066-12	11/11/04	8260	4-Isopropyltoluene	46	1	U	ug/L
5466	n-Butylbenzene	LW4S	0411066-12	11/11/04	8260	n-Butylbenzene	47	1	U	ug/L
5467	Naphthalene	LW4S	0411066-12	11/11/04	8260	Naphthalene	48	1	U	ug/L
5468	Methyl tert-butyl ether	LW4S	0411066-12	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
5469	Diesel Range Hydrocarbons	LW4S	0411066-12	11/11/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	0.244	U	mg/L
5470	Lube Oil	LW4S	0411066-12	11/11/04	NWTPH-Dx	Lube Oil	54	0.488	U	mg/L
5471	Arsenic	LW4S	0411066-12	11/11/04	6020	Arsenic	59	0.001	U	ug/L
5472	Chromium	LW4S	0411066-12	11/11/04	6010	Chromium	60	0.005	U	mg/L
5473	Copper	LW4S	0411066-12	11/11/04	6010	Copper	61	0.01	U	mg/L
5474	Lead	LW4S	0411066-12	11/11/04	6020	Lead	62	**0.00018**		ug/L
5475	Nickel	LW4S	0411066-12	11/11/04	6010	Nickel	63	0.0121	U	mg/L

	A	B	C	D	E	F	G	H	I	J
5476	Zinc	LW4S	0411066-12	11/11/04	6010	Zinc	64	0.01	U	mg/L
5477	Total Dissolved Solids	LW4S	0411066-12	11/11/04	1601	Total Dissolved Solids	74	**232**		mg/L
5478	Chloride	LW4S	0411066-12	11/11/04	9056	Chloride	75	**2.29**		mg/L
5479	pH	LW4S	0411066-12	11/11/04	FIELD	pH	82	6.4		s.u.
5480	Temperature	LW4S	0411066-12	11/11/04	FIELD	Temperature	83	16.3		c
5481	Conductivity	LW4S	0411066-12	11/11/04	FIELD	Conductivity	84	199		us
5482	Dissolved oxygen	LW4S	0411066-12	11/11/04	FIELD	Dissolved oxygen	85	2.11		mg/l
5483	1,1,1,2-Tetrachloroethane	LW4S	0411066-12	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
5484	1,1,1-Trichloroethane	LW4S	0411066-12	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
5485	1,1,2,2-Tetrachloroethane	LW4S	0411066-12	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
5486	1,1,2-Trichloroethane	LW4S	0411066-12	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
5487	1,1-Dichloroethane	LW4S	0411066-12	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
5488	1,1-Dichloroethene	LW4S	0411066-12	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
5489	1,1-Dichloropropene	LW4S	0411066-12	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
5490	1,2,3-Trichlorobenzene	LW4S	0411066-12	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
5491	1,2,3-Trichloropropane	LW4S	0411066-12	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
5492	1,2,4-Trichlorobenzene	LW4S	0411066-12	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
5493	1,2-Dibromo-3-chloropropane	LW4S	0411066-12	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
5494	1,2-Dibromoethane	LW4S	0411066-12	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
5495	1,2-Dichlorobenzene	LW4S	0411066-12	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
5496	1,2-Dichloroethane	LW4S	0411066-12	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
5497	1,2-Dichloropropane	LW4S	0411066-12	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
5498	1,3-Dichlorobenzene	LW4S	0411066-12	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
5499	1,3-Dichloropropane	LW4S	0411066-12	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
5500	1,4-Dichlorobenzene	LW4S	0411066-12	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
5501	2,2-Dichloropropane	LW4S	0411066-12	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
5502	2-Chlorotoluene	LW4S	0411066-12	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
5503	2-Hexanone	LW4S	0411066-12	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
5504	4-Chlorotoluene	LW4S	0411066-12	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
5505	4-Methyl-2-pentanone	LW4S	0411066-12	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
5506	Acrylonitrile	LW4S	0411066-12	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
5507	Bromobenzene	LW4S	0411066-12	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
5508	Bromochloromethane	LW4S	0411066-12	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
5509	Bromodichloromethane	LW4S	0411066-12	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
5510	Bromomethane	LW4S	0411066-12	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
5511	Carbon tetrachloride	LW4S	0411066-12	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
5512	Chlorobenzene	LW4S	0411066-12	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
5513	Chloroethane	LW4S	0411066-12	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
5514	Chloroform	LW4S	0411066-12	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
5515	Chloromethane	LW4S	0411066-12	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
5516	cis-1,2-Dichloroethene	LW4S	0411066-12	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
5517	cis-1,3-Dichloropropene	LW4S	0411066-12	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
5518	Dibromochloromethane	LW4S	0411066-12	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
5519	Dibromomethane	LW4S	0411066-12	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
5520	Dichlorodifluoromethane	LW4S	0411066-12	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
5521	Hexachlorobutadiene	LW4S	0411066-12	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
5522	Methylene chloride	LW4S	0411066-12	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
5523	Tetrachloroethene	LW4S	0411066-12	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
5524	trans-1,2-Dichloroethene	LW4S	0411066-12	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
5525	trans-1,3-Dichloropropene	LW4S	0411066-12	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
5526	Trichloroethene	LW4S	0411066-12	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
5527	Trichlorofluoromethane	LW4S	0411066-12	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
5528	Vinyl chloride	LW4S	0411066-12	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
5529	1,2,4-Trichlorobenzene	LW4S	0411066-12	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	1.02	U	ug/L
5530	1,2-Dichlorobenzene	LW4S	0411066-12	11/11/04	8270	1,2-Dichlorobenzene	#N/A	1.02	U	ug/L
5531	1,3-Dichlorobenzene	LW4S	0411066-12	11/11/04	8270	1,3-Dichlorobenzene	#N/A	1.02	U	ug/L
5532	1,4-Dichlorobenzene	LW4S	0411066-12	11/11/04	8270	1,4-Dichlorobenzene	#N/A	1.02	U	ug/L
5533	2,4-Dichlorophenol	LW4S	0411066-12	11/11/04	8270	2,4-Dichlorophenol	#N/A	3.05	U	ug/L
5534	2,4-Dinitrophenol	LW4S	0411066-12	11/11/04	8270	2,4-Dinitrophenol	#N/A	10.2	U	ug/L
5535	2,4-Dinitrotoluene	LW4S	0411066-12	11/11/04	8270	2,4-Dinitrotoluene	#N/A	5.08	U	ug/L
5536	2,6-Dinitrotoluene	LW4S	0411066-12	11/11/04	8270	2,6-Dinitrotoluene	#N/A	5.08	U	ug/L
5537	2-Chloronaphthalene	LW4S	0411066-12	11/11/04	8270	2-Chloronaphthalene	#N/A	1.02	U	ug/L
5538	2-Chlorophenol	LW4S	0411066-12	11/11/04	8270	2-Chlorophenol	#N/A	1.02	U	ug/L
5539	2-Methylphenol	LW4S	0411066-12	11/11/04	8270	2-Methylphenol	#N/A	2.03	U	ug/L
5540	2-Nitroaniline	LW4S	0411066-12	11/11/04	8270	2-Nitroaniline	#N/A	5.08	U	ug/L
5541	2-Nitrophenol	LW4S	0411066-12	11/11/04	8270	2-Nitrophenol	#N/A	5.08	U	ug/L
5542	3,3'-Dichlorobenzidine	LW4S	0411066-12	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	5.08	U	ug/L
5543	3-Nitroaniline	LW4S	0411066-12	11/11/04	8270	3-Nitroaniline	#N/A	6.09	U	ug/L
5544	4,6-Dinitro-2-methylphenol	LW4S	0411066-12	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.2	U	ug/L
5545	4-Bromophenyl phenyl ether	LW4S	0411066-12	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	1.02	U	ug/L
5546	4-Chloro-3-methylphenol	LW4S	0411066-12	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	2.03	U	ug/L
5547	4-Chloroaniline	LW4S	0411066-12	11/11/04	8270	4-Chloroaniline	#N/A	3.05	U	ug/L
5548	4-Chlorophenyl phenyl ether	LW4S	0411066-12	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.02	U	ug/L

	A	B	C	D	E	F	G	H	I	J
5549	4-Nitroaniline	LW4S	0411066-12	11/11/04	8270	4-Nitroaniline	#N/A	5.08	U	ug/L
5550	4-Nitrophenol	LW4S	0411066-12	11/11/04	8270	4-Nitrophenol	#N/A	5.08	U	ug/L
5551	Benz(a)anthracene	LW4S	0411066-12	11/11/04	8270	Benz(a)anthracene	#N/A	1.02	U	ug/L
5552	Benzo(a)pyrene	LW4S	0411066-12	11/11/04	8270	Benzo(a)pyrene	#N/A	1.02	U	ug/L
5553	Benzo(b)fluoranthene	LW4S	0411066-12	11/11/04	8270	Benzo(b)fluoranthene	#N/A	1.02	U	ug/L
5554	Benzo(g,h,i)perylene	LW4S	0411066-12	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	1.02	U	ug/L
5555	Benzo(k)fluoranthene	LW4S	0411066-12	11/11/04	8270	Benzo(k)fluoranthene	#N/A	1.02	U	ug/L
5556	Benzyl Alcohol	LW4S	0411066-12	11/11/04	8270	Benzyl Alcohol	#N/A	5.08	U	ug/L
5557	Bis(2-chloroethoxy)methane	LW4S	0411066-12	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.02	U	ug/L
5558	Bis(2-chloroethyl)ether	LW4S	0411066-12	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	2.03	U	ug/L
5559	Bis(2-chloroisopropyl)ether	LW4S	0411066-12	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.02	U	ug/L
5560	Butyl benzyl phthalate	LW4S	0411066-12	11/11/04	8270	Butyl benzyl phthalate	#N/A	1.02	U	ug/L
5561	Carbazole	LW4S	0411066-12	11/11/04	8270	Carbazole	#N/A	1.02	U	ug/L
5562	Chrysene	LW4S	0411066-12	11/11/04	8270	Chrysene	#N/A	1.02	U	ug/L
5563	Dibenz(a,h)anthracene	LW4S	0411066-12	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	1.02	U	ug/L
5564	Diethyl phthalate	LW4S	0411066-12	11/11/04	8270	Diethyl phthalate	#N/A	1.02	U	ug/L
5565	Dimethyl phthalate	LW4S	0411066-12	11/11/04	8270	Dimethyl phthalate	#N/A	1.02	U	ug/L
5566	Di-n-butyl phthalate	LW4S	0411066-12	11/11/04	8270	Di-n-butyl phthalate	#N/A	**2.17**		ug/L
5567	Di-n-octyl phthalate	LW4S	0411066-12	11/11/04	8270	Di-n-octyl phthalate	#N/A	1.02	U	ug/L
5568	Fluoranthene	LW4S	0411066-12	11/11/04	8270	Fluoranthene	#N/A	1.02	U	ug/L
5569	Hexachlorobenzene	LW4S	0411066-12	11/11/04	8270	Hexachlorobenzene	#N/A	1.02	U	ug/L
5570	Hexachlorobutadiene	LW4S	0411066-12	11/11/04	8270	Hexachlorobutadiene	#N/A	2.03	U	ug/L
5571	Hexachlorocyclopentadiene	LW4S	0411066-12	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	5.08	U	ug/L
5572	Hexachloroethane	LW4S	0411066-12	11/11/04	8270	Hexachloroethane	#N/A	2.03	U	ug/L
5573	Indeno(1,2,3-cd)pyrene	LW4S	0411066-12	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.02	U	ug/L
5574	Nitrobenzene	LW4S	0411066-12	11/11/04	8270	Nitrobenzene	#N/A	1.02	U	ug/L
5575	N-Nitrosodimethylamine	LW4S	0411066-12	11/11/04	8270	N-Nitrosodimethylamine	#N/A	1.02	U	ug/L
5576	N-Nitrosodi-n-propylamine	LW4S	0411066-12	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.03	U	ug/L
5577	N-Nitrosodiphenylamine	LW4S	0411066-12	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	1.02	U	ug/L
5578	Phenanthrene	LW4S	0411066-12	11/11/04	8270	Phenanthrene	#N/A	1.02	U	ug/L
5579	Pyrene	LW4S	0411066-12	11/11/04	8270	Pyrene	#N/A	1.02	U	ug/L
5580	Pyridine	LW4S	0411066-12	11/11/04	8270	Pyridine	#N/A	5.08	U	ug/L
5581	Turbidity	LW4S	0411066-12	11/11/04	FIELD	Turbidity	#N/A	0		ntu
5582	Pentachlorophenol	LW4S-Dup	0411066-01	11/11/04	8270	Pentachlorophenol	3	4.92	U	ug/L
5583	Phenol	LW4S-Dup	0411066-01	11/11/04	8270	Phenol	13	1.97	U	ug/L
5584	3-&4-Methylphenol	LW4S-Dup	0411066-01	11/11/04	8270	3-&4-Methylphenol	14	9.83	U	ug/L
5585	Isophorone	LW4S-Dup	0411066-01	11/11/04	8270	Isophorone	15	0.983	U	ug/L
5586	2,4-Dimethylphenol	LW4S-Dup	0411066-01	11/11/04	8270	2,4-Dimethylphenol	16	2.95	U	ug/L
5587	Benzoic Acid	LW4S-Dup	0411066-01	11/11/04	8270	Benzoic Acid	17	19.7	U	ug/L
5588	Naphthalene	LW4S-Dup	0411066-01	11/11/04	8270	Naphthalene	18	0.983	U	ug/L
5589	2-Methylnaphthalene	LW4S-Dup	0411066-01	11/11/04	8270	2-Methylnaphthalene	19	0.983	U	ug/L
5590	2,4,6-Trichlorophenol	LW4S-Dup	0411066-01	11/11/04	8270	2,4,6-Trichlorophenol	20	4.92	U	ug/L
5591	2,4,5-Trichlorophenol	LW4S-Dup	0411066-01	11/11/04	8270	2,4,5-Trichlorophenol	21	4.92	U	ug/L
5592	Acenaphthene	LW4S-Dup	0411066-01	11/11/04	8270	Acenaphthene	22	0.983	U	ug/L
5593	Dibenzofuran	LW4S-Dup	0411066-01	11/11/04	8270	Dibenzofuran	23	0.983	U	ug/L
5594	Fluorene	LW4S-Dup	0411066-01	11/11/04	8270	Fluorene	24	0.983	U	ug/L
5595	Pentachlorophenol	LW4S-Dup	0411066-01	11/11/04	8270SIM	Pentachlorophenol	25	0.5	U	ug/L
5596	Bis(2-ethylhexyl)phthalate	LW4S-Dup	0411066-01	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	0.983	U	ug/L
5597	Acetone	LW4S-Dup	0411066-01	11/11/04	8260	Acetone	30	50	U	ug/L
5598	Carbon disulfide	LW4S-Dup	0411066-01	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
5599	2-Butanone	LW4S-Dup	0411066-01	11/11/04	8260	2-Butanone	32	10	U	ug/L
5600	Benzene	LW4S-Dup	0411066-01	11/11/04	8260	Benzene	33	0.3	U	ug/L
5601	Bromoform	LW4S-Dup	0411066-01	11/11/04	8260	Bromoform	34	1	U	ug/L
5602	Toluene	LW4S-Dup	0411066-01	11/11/04	8260	Toluene	35	1	U	ug/L
5603	Ethylbenzene	LW4S-Dup	0411066-01	11/11/04	8260	Ethylbenzene	36	1	U	ug/L
5604	Styrene	LW4S-Dup	0411066-01	11/11/04	8260	Styrene	37	1	U	ug/L
5605	m,p-Xylene	LW4S-Dup	0411066-01	11/11/04	8260	m,p-Xylene	38	2	U	ug/L
5606	o-Xylene	LW4S-Dup	0411066-01	11/11/04	8260	o-Xylene	39	1	U	ug/L
5607	1,3,5-Trimethylbenzene	LW4S-Dup	0411066-01	11/11/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
5608	1,2,4-Trimethylbenzene	LW4S-Dup	0411066-01	11/11/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
5609	Isopropylbenzene	LW4S-Dup	0411066-01	11/11/04	8260	Isopropylbenzene	42	1	U	ug/L
5610	n-Propylbenzene	LW4S-Dup	0411066-01	11/11/04	8260	n-Propylbenzene	43	1	U	ug/L
5611	tert-Butylbenzene	LW4S-Dup	0411066-01	11/11/04	8260	tert-Butylbenzene	44	1	U	ug/L
5612	sec-Butylbenzene	LW4S-Dup	0411066-01	11/11/04	8260	sec-Butylbenzene	45	1	U	ug/L
5613	4-Isopropyltoluene	LW4S-Dup	0411066-01	11/11/04	8260	4-Isopropyltoluene	46	1	U	ug/L
5614	n-Butylbenzene	LW4S-Dup	0411066-01	11/11/04	8260	n-Butylbenzene	47	1	U	ug/L
5615	Naphthalene	LW4S-Dup	0411066-01	11/11/04	8260	Naphthalene	48	1	U	ug/L
5616	Methyl tert-butyl ether	LW4S-Dup	0411066-01	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
5617	Diesel Range Hydrocarbons	LW4S-Dup	0411066-01	11/11/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	0.248	U	mg/L
5618	Lube Oil	LW4S-Dup	0411066-01	11/11/04	NWTPH-Dx	Lube Oil	54	0.496	U	mg/L
5619	Arsenic	LW4S-Dup	0411066-01	11/11/04	6020	Arsenic	59	0.001	U	ug/L
5620	Chromium	LW4S-Dup	0411066-01	11/11/04	6010	Chromium	60	0.005	U	mg/L
5621	Copper	LW4S-Dup	0411066-01	11/11/04	6010	Copper	61	0.01	U	mg/L

	A	B	C	D	E	F	G	H	I	J
5622	Lead	LW4S-Dup	0411066-01	11/11/04	6020	Lead	62	**0.00067**		ug/L
5623	Nickel	LW4S-Dup	0411066-01	11/11/04	6010	Nickel	63	0.0128	U	mg/L
5624	Zinc	LW4S-Dup	0411066-01	11/11/04	6010	Zinc	64	0.01	U	mg/L
5625	Total Dissolved Solids	LW4S-Dup	0411066-01	11/11/04	1601	Total Dissolved Solids	74	**194**		mg/L
5626	Chloride	LW4S-Dup	0411066-01	11/11/04	9056	Chloride	75	**1.78**		mg/L
5627	pH	LW4S-Dup	0411066-01	11/11/04	FIELD	pH	82	6.43		s.u.
5628	Temperature	LW4S-Dup	0411066-01	11/11/04	FIELD	Temperature	83	16.4		c
5629	Conductivity	LW4S-Dup	0411066-01	11/11/04	FIELD	Conductivity	84	200		us
5630	Dissolved oxygen	LW4S-Dup	0411066-01	11/11/04	FIELD	Dissolved oxygen	85	2.04		mg/l
5631	1,1,1,2-Tetrachloroethane	LW4S-Dup	0411066-01	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
5632	1,1,1-Trichloroethane	LW4S-Dup	0411066-01	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
5633	1,1,2,2-Tetrachloroethane	LW4S-Dup	0411066-01	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
5634	1,1,2-Trichloroethane	LW4S-Dup	0411066-01	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
5635	1,1-Dichloroethane	LW4S-Dup	0411066-01	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
5636	1,1-Dichloroethene	LW4S-Dup	0411066-01	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
5637	1,1-Dichloropropene	LW4S-Dup	0411066-01	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
5638	1,2,3-Trichlorobenzene	LW4S-Dup	0411066-01	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
5639	1,2,3-Trichloropropane	LW4S-Dup	0411066-01	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
5640	1,2,4-Trichlorobenzene	LW4S-Dup	0411066-01	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
5641	1,2-Dibromo-3-chloropropane	LW4S-Dup	0411066-01	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
5642	1,2-Dibromoethane	LW4S-Dup	0411066-01	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
5643	1,2-Dichlorobenzene	LW4S-Dup	0411066-01	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
5644	1,2-Dichloroethane	LW4S-Dup	0411066-01	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
5645	1,2-Dichloropropane	LW4S-Dup	0411066-01	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
5646	1,3-Dichlorobenzene	LW4S-Dup	0411066-01	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
5647	1,3-Dichloropropane	LW4S-Dup	0411066-01	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
5648	1,4-Dichlorobenzene	LW4S-Dup	0411066-01	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
5649	2,2-Dichloropropane	LW4S-Dup	0411066-01	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
5650	2-Chlorotoluene	LW4S-Dup	0411066-01	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
5651	2-Hexanone	LW4S-Dup	0411066-01	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
5652	4-Chlorotoluene	LW4S-Dup	0411066-01	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
5653	4-Methyl-2-pentanone	LW4S-Dup	0411066-01	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
5654	Acrylonitrile	LW4S-Dup	0411066-01	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
5655	Bromobenzene	LW4S-Dup	0411066-01	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
5656	Bromochloromethane	LW4S-Dup	0411066-01	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
5657	Bromodichloromethane	LW4S-Dup	0411066-01	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
5658	Bromomethane	LW4S-Dup	0411066-01	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
5659	Carbon tetrachloride	LW4S-Dup	0411066-01	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
5660	Chlorobenzene	LW4S-Dup	0411066-01	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
5661	Chloroethane	LW4S-Dup	0411066-01	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
5662	Chloroform	LW4S-Dup	0411066-01	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
5663	Chloromethane	LW4S-Dup	0411066-01	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
5664	cis-1,2-Dichloroethene	LW4S-Dup	0411066-01	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
5665	cis-1,3-Dichloropropene	LW4S-Dup	0411066-01	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
5666	Dibromochloromethane	LW4S-Dup	0411066-01	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
5667	Dibromomethane	LW4S-Dup	0411066-01	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
5668	Dichlorodifluoromethane	LW4S-Dup	0411066-01	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
5669	Hexachlorobutadiene	LW4S-Dup	0411066-01	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
5670	Methylene chloride	LW4S-Dup	0411066-01	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
5671	Tetrachloroethene	LW4S-Dup	0411066-01	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
5672	trans-1,2-Dichloroethene	LW4S-Dup	0411066-01	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
5673	trans-1,3-Dichloropropene	LW4S-Dup	0411066-01	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
5674	Trichloroethene	LW4S-Dup	0411066-01	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
5675	Trichlorofluoromethane	LW4S-Dup	0411066-01	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
5676	Vinyl chloride	LW4S-Dup	0411066-01	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
5677	1,2,4-Trichlorobenzene	LW4S-Dup	0411066-01	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	0.983	U	ug/L
5678	1,2-Dichlorobenzene	LW4S-Dup	0411066-01	11/11/04	8270	1,2-Dichlorobenzene	#N/A	0.983	U	ug/L
5679	1,3-Dichlorobenzene	LW4S-Dup	0411066-01	11/11/04	8270	1,3-Dichlorobenzene	#N/A	0.983	U	ug/L
5680	1,4-Dichlorobenzene	LW4S-Dup	0411066-01	11/11/04	8270	1,4-Dichlorobenzene	#N/A	0.983	U	ug/L
5681	2,4-Dichlorophenol	LW4S-Dup	0411066-01	11/11/04	8270	2,4-Dichlorophenol	#N/A	2.95	U	ug/L
5682	2,4-Dinitrophenol	LW4S-Dup	0411066-01	11/11/04	8270	2,4-Dinitrophenol	#N/A	9.83	U	ug/L
5683	2,4-Dinitrotoluene	LW4S-Dup	0411066-01	11/11/04	8270	2,4-Dinitrotoluene	#N/A	4.92	U	ug/L
5684	2,6-Dinitrotoluene	LW4S-Dup	0411066-01	11/11/04	8270	2,6-Dinitrotoluene	#N/A	4.92	U	ug/L
5685	2-Chloronaphthalene	LW4S-Dup	0411066-01	11/11/04	8270	2-Chloronaphthalene	#N/A	0.983	U	ug/L
5686	2-Chlorophenol	LW4S-Dup	0411066-01	11/11/04	8270	2-Chlorophenol	#N/A	0.983	U	ug/L
5687	2-Methylphenol	LW4S-Dup	0411066-01	11/11/04	8270	2-Methylphenol	#N/A	1.97	U	ug/L
5688	2-Nitroaniline	LW4S-Dup	0411066-01	11/11/04	8270	2-Nitroaniline	#N/A	4.92	U	ug/L
5689	2-Nitrophenol	LW4S-Dup	0411066-01	11/11/04	8270	2-Nitrophenol	#N/A	4.92	U	ug/L
5690	3,3'-Dichlorobenzidine	LW4S-Dup	0411066-01	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	4.92	U	ug/L
5691	3-Nitroaniline	LW4S-Dup	0411066-01	11/11/04	8270	3-Nitroaniline	#N/A	5.9	U	ug/L
5692	4,6-Dinitro-2-methylphenol	LW4S-Dup	0411066-01	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.83	U	ug/L
5693	4-Bromophenyl phenyl ether	LW4S-Dup	0411066-01	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	0.983	U	ug/L
5694	4-Chloro-3-methylphenol	LW4S-Dup	0411066-01	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	1.97	U	ug/L

	A	B	C	D	E	F	G	H	I	J
5695	4-Chloroaniline	LW4S-Dup	0411066-01	11/11/04	8270	4-Chloroaniline	#N/A	2.95	U	ug/L
5696	4-Chlorophenyl phenyl ether	LW4S-Dup	0411066-01	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.983	U	ug/L
5697	4-Nitroaniline	LW4S-Dup	0411066-01	11/11/04	8270	4-Nitroaniline	#N/A	4.92	U	ug/L
5698	4-Nitrophenol	LW4S-Dup	0411066-01	11/11/04	8270	4-Nitrophenol	#N/A	4.92	U	ug/L
5699	Benz(a)anthracene	LW4S-Dup	0411066-01	11/11/04	8270	Benz(a)anthracene	#N/A	0.983	U	ug/L
5700	Benzo(a)pyrene	LW4S-Dup	0411066-01	11/11/04	8270	Benzo(a)pyrene	#N/A	0.983	U	ug/L
5701	Benzo(b)fluoranthene	LW4S-Dup	0411066-01	11/11/04	8270	Benzo(b)fluoranthene	#N/A	0.983	U	ug/L
5702	Benzo(g,h,i)perylene	LW4S-Dup	0411066-01	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	0.983	U	ug/L
5703	Benzo(k)fluoranthene	LW4S-Dup	0411066-01	11/11/04	8270	Benzo(k)fluoranthene	#N/A	0.983	U	ug/L
5704	Benzyl Alcohol	LW4S-Dup	0411066-01	11/11/04	8270	Benzyl Alcohol	#N/A	4.92	U	ug/L
5705	Bis(2-chloroethoxy)methane	LW4S-Dup	0411066-01	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.983	U	ug/L
5706	Bis(2-chloroethyl)ether	LW4S-Dup	0411066-01	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	1.97	U	ug/L
5707	Bis(2-chloroisopropyl)ether	LW4S-Dup	0411066-01	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.983	U	ug/L
5708	Butyl benzyl phthalate	LW4S-Dup	0411066-01	11/11/04	8270	Butyl benzyl phthalate	#N/A	0.983	U	ug/L
5709	Carbazole	LW4S-Dup	0411066-01	11/11/04	8270	Carbazole	#N/A	0.983	U	ug/L
5710	Chrysene	LW4S-Dup	0411066-01	11/11/04	8270	Chrysene	#N/A	0.983	U	ug/L
5711	Dibenz(a,h)anthracene	LW4S-Dup	0411066-01	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	0.983	U	ug/L
5712	Diethyl phthalate	LW4S-Dup	0411066-01	11/11/04	8270	Diethyl phthalate	#N/A	0.983	U	ug/L
5713	Dimethyl phthalate	LW4S-Dup	0411066-01	11/11/04	8270	Dimethyl phthalate	#N/A	0.983	U	ug/L
5714	Di-n-butyl phthalate	LW4S-Dup	0411066-01	11/11/04	8270	Di-n-butyl phthalate	#N/A	0.983	U	ug/L
5715	Di-n-octyl phthalate	LW4S-Dup	0411066-01	11/11/04	8270	Di-n-octyl phthalate	#N/A	0.983	U	ug/L
5716	Fluoranthene	LW4S-Dup	0411066-01	11/11/04	8270	Fluoranthene	#N/A	0.983	U	ug/L
5717	Hexachlorobenzene	LW4S-Dup	0411066-01	11/11/04	8270	Hexachlorobenzene	#N/A	0.983	U	ug/L
5718	Hexachlorobutadiene	LW4S-Dup	0411066-01	11/11/04	8270	Hexachlorobutadiene	#N/A	1.97	U	ug/L
5719	Hexachlorocyclopentadiene	LW4S-Dup	0411066-01	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	4.92	U	ug/L
5720	Hexachloroethane	LW4S-Dup	0411066-01	11/11/04	8270	Hexachloroethane	#N/A	1.97	U	ug/L
5721	Indeno(1,2,3-cd)pyrene	LW4S-Dup	0411066-01	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.983	U	ug/L
5722	Nitrobenzene	LW4S-Dup	0411066-01	11/11/04	8270	Nitrobenzene	#N/A	0.983	U	ug/L
5723	N-Nitrosodimethylamine	LW4S-Dup	0411066-01	11/11/04	8270	N-Nitrosodimethylamine	#N/A	0.983	U	ug/L
5724	N-Nitrosodi-n-propylamine	LW4S-Dup	0411066-01	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.97	U	ug/L
5725	N-Nitrosodiphenylamine	LW4S-Dup	0411066-01	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	0.983	U	ug/L
5726	Phenanthrene	LW4S-Dup	0411066-01	11/11/04	8270	Phenanthrene	#N/A	0.983	U	ug/L
5727	Pyrene	LW4S-Dup	0411066-01	11/11/04	8270	Pyrene	#N/A	0.983	U	ug/L
5728	Pyridine	LW4S-Dup	0411066-01	11/11/04	8270	Pyridine	#N/A	4.92	U	ug/L
5729	Turbidity	LW4S-Dup	0411066-01	11/11/04	FIELD	Turbidity	#N/A	0		ntu
5730	Pentachlorophenol	LW6D	0411051-07	11/9/04	8270	Pentachlorophenol	3	5.21	U	ug/L
5731	Phenol	LW6D	0411051-07	11/9/04	8270	Phenol	13	2.08	U	ug/L
5732	3-&4-Methylphenol	LW6D	0411051-07	11/9/04	8270	3-&4-Methylphenol	14	10.4	U	ug/L
5733	Isophorone	LW6D	0411051-07	11/9/04	8270	Isophorone	15	1.04	U	ug/L
5734	2,4-Dimethylphenol	LW6D	0411051-07	11/9/04	8270	2,4-Dimethylphenol	16	3.12	U	ug/L
5735	Benzoic Acid	LW6D	0411051-07	11/9/04	8270	Benzoic Acid	17	20.8	U	ug/L
5736	Naphthalene	LW6D	0411051-07	11/9/04	8270	Naphthalene	18	1.04	U	ug/L
5737	2-Methylnaphthalene	LW6D	0411051-07	11/9/04	8270	2-Methylnaphthalene	19	1.04	U	ug/L
5738	2,4,6-Trichlorophenol	LW6D	0411051-07	11/9/04	8270	2,4,6-Trichlorophenol	20	5.21	U	ug/L
5739	2,4,5-Trichlorophenol	LW6D	0411051-07	11/9/04	8270	2,4,5-Trichlorophenol	21	5.21	U	ug/L
5740	Acenaphthene	LW6D	0411051-07	11/9/04	8270	Acenaphthene	22	1.04	U	ug/L
5741	Dibenzofuran	LW6D	0411051-07	11/9/04	8270	Dibenzofuran	23	1.04	U	ug/L
5742	Fluorene	LW6D	0411051-07	11/9/04	8270	Fluorene	24	1.04	U	ug/L
5743	Pentachlorophenol	LW6D	0411051-07	11/9/04	8270SIM	Pentachlorophenol	25	0.495	U	ug/L
5744	Bis(2-ethylhexyl)phthalate	LW6D	0411051-07	11/9/04	8270	Bis(2-ethylhexyl)phthalate	26	1.04	U	ug/L
5745	Acetone	LW6D	0411051-07	11/9/04	8260	Acetone	30	50	U	ug/L
5746	Carbon disulfide	LW6D	0411051-07	11/9/04	8260	Carbon disulfide	31	2	U	ug/L
5747	2-Butanone	LW6D	0411051-07	11/9/04	8260	2-Butanone	32	10	U	ug/L
5748	Benzene	LW6D	0411051-07	11/9/04	8260	Benzene	33	0.3	U	ug/L
5749	Bromoform	LW6D	0411051-07	11/9/04	8260	Bromoform	34	1	U	ug/L
5750	Toluene	LW6D	0411051-07	11/9/04	8260	Toluene	35	1	U	ug/L
5751	Ethylbenzene	LW6D	0411051-07	11/9/04	8260	Ethylbenzene	36	1	U	ug/L
5752	Styrene	LW6D	0411051-07	11/9/04	8260	Styrene	37	1	U	ug/L
5753	m,p-Xylene	LW6D	0411051-07	11/9/04	8260	m,p-Xylene	38	2	U	ug/L
5754	o-Xylene	LW6D	0411051-07	11/9/04	8260	o-Xylene	39	**1.38**		ug/L
5755	1,3,5-Trimethylbenzene	LW6D	0411051-07	11/9/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
5756	1,2,4-Trimethylbenzene	LW6D	0411051-07	11/9/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
5757	Isopropylbenzene	LW6D	0411051-07	11/9/04	8260	Isopropylbenzene	42	**2.39**		ug/L
5758	n-Propylbenzene	LW6D	0411051-07	11/9/04	8260	n-Propylbenzene	43	1	U	ug/L
5759	tert-Butylbenzene	LW6D	0411051-07	11/9/04	8260	tert-Butylbenzene	44	**3.23**		ug/L
5760	sec-Butylbenzene	LW6D	0411051-07	11/9/04	8260	sec-Butylbenzene	45	**1.09**		ug/L
5761	4-Isopropyltoluene	LW6D	0411051-07	11/9/04	8260	4-Isopropyltoluene	46	1	U	ug/L
5762	n-Butylbenzene	LW6D	0411051-07	11/9/04	8260	n-Butylbenzene	47	1	U	ug/L
5763	Naphthalene	LW6D	0411051-07	11/9/04	8260	Naphthalene	48	1	U	ug/L
5764	Methyl tert-butyl ether	LW6D	0411051-07	11/9/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
5765	Diesel Range Hydrocarbons	LW6D	0411051-07	11/9/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**1.9**		mg/L
5766	Lube Oil	LW6D	0411051-07	11/9/04	NWTPH-Dx	Lube Oil	54	0.509	U	mg/L
5767	Arsenic	LW6D	0411051-07	11/9/04	6020	Arsenic	59	**0.014**		ug/L

	A	B	C	D	E	F	G	H	I	J
5768	Chromium	LW6D	0411051-07	11/9/04	6010	Chromium	60	**0.0182**		mg/L
5769	Copper	LW6D	0411051-07	11/9/04	6010	Copper	61	0.01	U	mg/L
5770	Lead	LW6D	0411051-07	11/9/04	6020	Lead	62	**0.00042**		ug/L
5771	Nickel	LW6D	0411051-07	11/9/04	6010	Nickel	63	0.005	U	mg/L
5772	Zinc	LW6D	0411051-07	11/9/04	6010	Zinc	64	0.01	U	mg/L
5773	Total Dissolved Solids	LW6D	0411051-07	11/9/04	1601	Total Dissolved Solids	74	**283**		mg/L
5774	Chloride	LW6D	0411051-07	11/9/04	9056	Chloride	75	**2.86**		mg/L
5775	pH	LW6D	0411051-07	11/9/04	FIELD	pH	82	6.57		s.u.
5776	Temperature	LW6D	0411051-07	11/9/04	FIELD	Temperature	83	14.2		c
5777	Conductivity	LW6D	0411051-07	11/9/04	FIELD	Conductivity	84	403		us
5778	Dissolved oxygen	LW6D	0411051-07	11/9/04	FIELD	Dissolved oxygen	85	1.92		mg/l
5779	1,1,1,2-Tetrachloroethane	LW6D	0411051-07	11/9/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
5780	1,1,1-Trichloroethane	LW6D	0411051-07	11/9/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
5781	1,1,2,2-Tetrachloroethane	LW6D	0411051-07	11/9/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
5782	1,1,2-Trichloroethane	LW6D	0411051-07	11/9/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
5783	1,1-Dichloroethane	LW6D	0411051-07	11/9/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
5784	1,1-Dichloroethene	LW6D	0411051-07	11/9/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
5785	1,1-Dichloropropene	LW6D	0411051-07	11/9/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
5786	1,2,3-Trichlorobenzene	LW6D	0411051-07	11/9/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
5787	1,2,3-Trichloropropane	LW6D	0411051-07	11/9/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
5788	1,2,4-Trichlorobenzene	LW6D	0411051-07	11/9/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
5789	1,2-Dibromo-3-chloropropane	LW6D	0411051-07	11/9/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
5790	1,2-Dibromoethane	LW6D	0411051-07	11/9/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
5791	1,2-Dichlorobenzene	LW6D	0411051-07	11/9/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
5792	1,2-Dichloroethane	LW6D	0411051-07	11/9/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
5793	1,2-Dichloropropane	LW6D	0411051-07	11/9/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
5794	1,3-Dichlorobenzene	LW6D	0411051-07	11/9/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
5795	1,3-Dichloropropane	LW6D	0411051-07	11/9/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
5796	1,4-Dichlorobenzene	LW6D	0411051-07	11/9/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
5797	2,2-Dichloropropane	LW6D	0411051-07	11/9/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
5798	2-Chlorotoluene	LW6D	0411051-07	11/9/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
5799	2-Hexanone	LW6D	0411051-07	11/9/04	8260	2-Hexanone	#N/A	10	U	ug/L
5800	4-Chlorotoluene	LW6D	0411051-07	11/9/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
5801	4-Methyl-2-pentanone	LW6D	0411051-07	11/9/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
5802	Acrylonitrile	LW6D	0411051-07	11/9/04	8260	Acrylonitrile	#N/A	5	U	ug/L
5803	Bromobenzene	LW6D	0411051-07	11/9/04	8260	Bromobenzene	#N/A	1	U	ug/L
5804	Bromochloromethane	LW6D	0411051-07	11/9/04	8260	Bromochloromethane	#N/A	1	U	ug/L
5805	Bromodichloromethane	LW6D	0411051-07	11/9/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
5806	Bromomethane	LW6D	0411051-07	11/9/04	8260	Bromomethane	#N/A	1	U	ug/L
5807	Carbon tetrachloride	LW6D	0411051-07	11/9/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
5808	Chlorobenzene	LW6D	0411051-07	11/9/04	8260	Chlorobenzene	#N/A	1	U	ug/L
5809	Chloroethane	LW6D	0411051-07	11/9/04	8260	Chloroethane	#N/A	1	U	ug/L
5810	Chloroform	LW6D	0411051-07	11/9/04	8260	Chloroform	#N/A	1	U	ug/L
5811	Chloromethane	LW6D	0411051-07	11/9/04	8260	Chloromethane	#N/A	1	U	ug/L
5812	cis-1,2-Dichloroethene	LW6D	0411051-07	11/9/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
5813	cis-1,3-Dichloropropene	LW6D	0411051-07	11/9/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
5814	Dibromochloromethane	LW6D	0411051-07	11/9/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
5815	Dibromomethane	LW6D	0411051-07	11/9/04	8260	Dibromomethane	#N/A	1	U	ug/L
5816	Dichlorodifluoromethane	LW6D	0411051-07	11/9/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
5817	Hexachlorobutadiene	LW6D	0411051-07	11/9/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
5818	Methylene chloride	LW6D	0411051-07	11/9/04	8260	Methylene chloride	#N/A	20	U	ug/L
5819	Tetrachloroethene	LW6D	0411051-07	11/9/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
5820	trans-1,2-Dichloroethene	LW6D	0411051-07	11/9/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
5821	trans-1,3-Dichloropropene	LW6D	0411051-07	11/9/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
5822	Trichloroethene	LW6D	0411051-07	11/9/04	8260	Trichloroethene	#N/A	1	U	ug/L
5823	Trichlorofluoromethane	LW6D	0411051-07	11/9/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
5824	Vinyl chloride	LW6D	0411051-07	11/9/04	8260	Vinyl chloride	#N/A	1	U	ug/L
5825	1,2,4-Trichlorobenzene	LW6D	0411051-07	11/9/04	8270	1,2,4-Trichlorobenzene	#N/A	1.04	U	ug/L
5826	1,2-Dichlorobenzene	LW6D	0411051-07	11/9/04	8270	1,2-Dichlorobenzene	#N/A	1.04	U	ug/L
5827	1,3-Dichlorobenzene	LW6D	0411051-07	11/9/04	8270	1,3-Dichlorobenzene	#N/A	1.04	U	ug/L
5828	1,4-Dichlorobenzene	LW6D	0411051-07	11/9/04	8270	1,4-Dichlorobenzene	#N/A	1.04	U	ug/L
5829	2,4-Dichlorophenol	LW6D	0411051-07	11/9/04	8270	2,4-Dichlorophenol	#N/A	3.12	U	ug/L
5830	2,4-Dinitrophenol	LW6D	0411051-07	11/9/04	8270	2,4-Dinitrophenol	#N/A	10.4	U	ug/L
5831	2,4-Dinitrotoluene	LW6D	0411051-07	11/9/04	8270	2,4-Dinitrotoluene	#N/A	5.21	U	ug/L
5832	2,6-Dinitrotoluene	LW6D	0411051-07	11/9/04	8270	2,6-Dinitrotoluene	#N/A	5.21	U	ug/L
5833	2-Chloronaphthalene	LW6D	0411051-07	11/9/04	8270	2-Chloronaphthalene	#N/A	1.04	U	ug/L
5834	2-Chlorophenol	LW6D	0411051-07	11/9/04	8270	2-Chlorophenol	#N/A	1.04	U	ug/L
5835	2-Methylphenol	LW6D	0411051-07	11/9/04	8270	2-Methylphenol	#N/A	2.08	U	ug/L
5836	2-Nitroaniline	LW6D	0411051-07	11/9/04	8270	2-Nitroaniline	#N/A	5.21	U	ug/L
5837	2-Nitrophenol	LW6D	0411051-07	11/9/04	8270	2-Nitrophenol	#N/A	5.21	U	ug/L
5838	3,3'-Dichlorobenzidine	LW6D	0411051-07	11/9/04	8270	3,3'-Dichlorobenzidine	#N/A	5.21	U	ug/L
5839	3-Nitroaniline	LW6D	0411051-07	11/9/04	8270	3-Nitroaniline	#N/A	6.25	U	ug/L
5840	4,6-Dinitro-2-methylphenol	LW6D	0411051-07	11/9/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.4	U	ug/L

	A	B	C	D	E	F	G	H	I	J
5841	4-Bromophenyl phenyl ether	LW6D	0411051-07	11/9/04	8270	4-Bromophenyl phenyl ether	#N/A	1.04	U	ug/L
5842	4-Chloro-3-methylphenol	LW6D	0411051-07	11/9/04	8270	4-Chloro-3-methylphenol	#N/A	2.08	U	ug/L
5843	4-Chloroaniline	LW6D	0411051-07	11/9/04	8270	4-Chloroaniline	#N/A	3.12	U	ug/L
5844	4-Chlorophenyl phenyl ether	LW6D	0411051-07	11/9/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.04	U	ug/L
5845	4-Nitroaniline	LW6D	0411051-07	11/9/04	8270	4-Nitroaniline	#N/A	5.21	U	ug/L
5846	4-Nitrophenol	LW6D	0411051-07	11/9/04	8270	4-Nitrophenol	#N/A	5.21	U	ug/L
5847	Benz(a)anthracene	LW6D	0411051-07	11/9/04	8270	Benz(a)anthracene	#N/A	1.04	U	ug/L
5848	Benzo(a)pyrene	LW6D	0411051-07	11/9/04	8270	Benzo(a)pyrene	#N/A	1.04	U	ug/L
5849	Benzo(b)fluoranthene	LW6D	0411051-07	11/9/04	8270	Benzo(b)fluoranthene	#N/A	1.04	U	ug/L
5850	Benzo(g,h,i)perylene	LW6D	0411051-07	11/9/04	8270	Benzo(g,h,i)perylene	#N/A	1.04	U	ug/L
5851	Benzo(k)fluoranthene	LW6D	0411051-07	11/9/04	8270	Benzo(k)fluoranthene	#N/A	1.04	U	ug/L
5852	Benzyl Alcohol	LW6D	0411051-07	11/9/04	8270	Benzyl Alcohol	#N/A	5.21	U	ug/L
5853	Bis(2-chloroethoxy)methane	LW6D	0411051-07	11/9/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.04	U	ug/L
5854	Bis(2-chloroethyl)ether	LW6D	0411051-07	11/9/04	8270	Bis(2-chloroethyl)ether	#N/A	2.08	U	ug/L
5855	Bis(2-chloroisopropyl)ether	LW6D	0411051-07	11/9/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.04	U	ug/L
5856	Butyl benzyl phthalate	LW6D	0411051-07	11/9/04	8270	Butyl benzyl phthalate	#N/A	1.04	U	ug/L
5857	Carbazole	LW6D	0411051-07	11/9/04	8270	Carbazole	#N/A	1.04	U	ug/L
5858	Chrysene	LW6D	0411051-07	11/9/04	8270	Chrysene	#N/A	1.04	U	ug/L
5859	Dibenz(a,h)anthracene	LW6D	0411051-07	11/9/04	8270	Dibenz(a,h)anthracene	#N/A	1.04	U	ug/L
5860	Diethyl phthalate	LW6D	0411051-07	11/9/04	8270	Diethyl phthalate	#N/A	1.04	U	ug/L
5861	Dimethyl phthalate	LW6D	0411051-07	11/9/04	8270	Dimethyl phthalate	#N/A	1.04	U	ug/L
5862	Di-n-butyl phthalate	LW6D	0411051-07	11/9/04	8270	Di-n-butyl phthalate	#N/A	1.04	U	ug/L
5863	Di-n-octyl phthalate	LW6D	0411051-07	11/9/04	8270	Di-n-octyl phthalate	#N/A	1.04	U	ug/L
5864	Fluoranthene	LW6D	0411051-07	11/9/04	8270	Fluoranthene	#N/A	1.04	U	ug/L
5865	Hexachlorobenzene	LW6D	0411051-07	11/9/04	8270	Hexachlorobenzene	#N/A	1.04	U	ug/L
5866	Hexachlorobutadiene	LW6D	0411051-07	11/9/04	8270	Hexachlorobutadiene	#N/A	2.08	U	ug/L
5867	Hexachlorocyclopentadiene	LW6D	0411051-07	11/9/04	8270	Hexachlorocyclopentadiene	#N/A	5.21	U	ug/L
5868	Hexachloroethane	LW6D	0411051-07	11/9/04	8270	Hexachloroethane	#N/A	2.08	U	ug/L
5869	Indeno(1,2,3-cd)pyrene	LW6D	0411051-07	11/9/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.04	U	ug/L
5870	Nitrobenzene	LW6D	0411051-07	11/9/04	8270	Nitrobenzene	#N/A	1.04	U	ug/L
5871	N-Nitrosodimethylamine	LW6D	0411051-07	11/9/04	8270	N-Nitrosodimethylamine	#N/A	1.04	U	ug/L
5872	N-Nitrosodi-n-propylamine	LW6D	0411051-07	11/9/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.08	U	ug/L
5873	N-Nitrosodiphenylamine	LW6D	0411051-07	11/9/04	8270	N-Nitrosodiphenylamine	#N/A	1.04	U	ug/L
5874	Phenanthrene	LW6D	0411051-07	11/9/04	8270	Phenanthrene	#N/A	1.04	U	ug/L
5875	Pyrene	LW6D	0411051-07	11/9/04	8270	Pyrene	#N/A	1.04	U	ug/L
5876	Pyridine	LW6D	0411051-07	11/9/04	8270	Pyridine	#N/A	5.21	U	ug/L
5877	Turbidity	LW6D	0411051-07	11/9/04	FIELD	Turbidity	#N/A	0		ntu
5878	Pentachlorophenol	LW7S	0411051-10	11/9/04	8270	Pentachlorophenol	3	5.01	U	ug/L
5879	Phenol	LW7S	0411051-10	11/9/04	8270	Phenol	13	2	U	ug/L
5880	3-&4-Methylphenol	LW7S	0411051-10	11/9/04	8270	3-&4-Methylphenol	14	10	U	ug/L
5881	Isophorone	LW7S	0411051-10	11/9/04	8270	Isophorone	15	1	U	ug/L
5882	2,4-Dimethylphenol	LW7S	0411051-10	11/9/04	8270	2,4-Dimethylphenol	16	3.01	U	ug/L
5883	Benzoic Acid	LW7S	0411051-10	11/9/04	8270	Benzoic Acid	17	20	U	ug/L
5884	Naphthalene	LW7S	0411051-10	11/9/04	8270	Naphthalene	18	1	U	ug/L
5885	2-Methylnaphthalene	LW7S	0411051-10	11/9/04	8270	2-Methylnaphthalene	19	1	U	ug/L
5886	2,4,6-Trichlorophenol	LW7S	0411051-10	11/9/04	8270	2,4,6-Trichlorophenol	20	5.01	U	ug/L
5887	2,4,5-Trichlorophenol	LW7S	0411051-10	11/9/04	8270	2,4,5-Trichlorophenol	21	5.01	U	ug/L
5888	Acenaphthene	LW7S	0411051-10	11/9/04	8270	Acenaphthene	22	1	U	ug/L
5889	Dibenzofuran	LW7S	0411051-10	11/9/04	8270	Dibenzofuran	23	1	U	ug/L
5890	Fluorene	LW7S	0411051-10	11/9/04	8270	Fluorene	24	1	U	ug/L
5891	Pentachlorophenol	LW7S	0411051-10	11/9/04	8270SIM	Pentachlorophenol	25	0.488	U	ug/L
5892	Bis(2-ethylhexyl)phthalate	LW7S	0411051-10	11/9/04	8270	Bis(2-ethylhexyl)phthalate	26	1	U	ug/L
5893	Acetone	LW7S	0411051-10	11/9/04	8260	Acetone	30	50	U	ug/L
5894	Carbon disulfide	LW7S	0411051-10	11/9/04	8260	Carbon disulfide	31	2	U	ug/L
5895	2-Butanone	LW7S	0411051-10	11/9/04	8260	2-Butanone	32	10	U	ug/L
5896	Benzene	LW7S	0411051-10	11/9/04	8260	Benzene	33	0.3	U	ug/L
5897	Bromoform	LW7S	0411051-10	11/9/04	8260	Bromoform	34	1	U	ug/L
5898	Toluene	LW7S	0411051-10	11/9/04	8260	Toluene	35	1	U	ug/L
5899	Ethylbenzene	LW7S	0411051-10	11/9/04	8260	Ethylbenzene	36	**13.8**		ug/L
5900	Styrene	LW7S	0411051-10	11/9/04	8260	Styrene	37	1	U	ug/L
5901	m,p-Xylene	LW7S	0411051-10	11/9/04	8260	m,p-Xylene	38	**15.3**		ug/L
5902	o-Xylene	LW7S	0411051-10	11/9/04	8260	o-Xylene	39	**1.87**		ug/L
5903	1,3,5-Trimethylbenzene	LW7S	0411051-10	11/9/04	8260	1,3,5-Trimethylbenzene	40	**1.63**		ug/L
5904	1,2,4-Trimethylbenzene	LW7S	0411051-10	11/9/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
5905	Isopropylbenzene	LW7S	0411051-10	11/9/04	8260	Isopropylbenzene	42	**34.4**		ug/L
5906	n-Propylbenzene	LW7S	0411051-10	11/9/04	8260	n-Propylbenzene	43	**50**		ug/L
5907	tert-Butylbenzene	LW7S	0411051-10	11/9/04	8260	tert-Butylbenzene	44	1	U	ug/L
5908	sec-Butylbenzene	LW7S	0411051-10	11/9/04	8260	sec-Butylbenzene	45	**2.8**		ug/L
5909	4-Isopropyltoluene	LW7S	0411051-10	11/9/04	8260	4-Isopropyltoluene	46	**1.32**		ug/L
5910	n-Butylbenzene	LW7S	0411051-10	11/9/04	8260	n-Butylbenzene	47	**3.79**		ug/L
5911	Naphthalene	LW7S	0411051-10	11/9/04	8260	Naphthalene	48	1	U	ug/L
5912	Methyl tert-butyl ether	LW7S	0411051-10	11/9/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
5913	Diesel Range Hydrocarbons	LW7S	0411051-10	11/9/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.413**		mg/L

	A	B	C	D	E	F	G	H	I	J
5914	Lube Oil	LW7S	0411051-10	11/9/04	NWTPH-Dx	Lube Oil	54	0.497	U	mg/L
5915	Gasoline Range Hydrocarbons	LW7S	0411051-10	11/9/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**1.63**		ug/L
5916	Arsenic	LW7S	0411051-10	11/9/04	6020	Arsenic	59	**0.0136**		ug/L
5917	Chromium	LW7S	0411051-10	11/9/04	6010	Chromium	60	**0.0186**		mg/L
5918	Copper	LW7S	0411051-10	11/9/04	6010	Copper	61	0.01	U	mg/L
5919	Lead	LW7S	0411051-10	11/9/04	6020	Lead	62	**0.00073**		ug/L
5920	Nickel	LW7S	0411051-10	11/9/04	6010	Nickel	63	0.005	U	mg/L
5921	Zinc	LW7S	0411051-10	11/9/04	6010	Zinc	64	0.01	U	mg/L
5922	Total Dissolved Solids	LW7S	0411051-10	11/9/04	1601	Total Dissolved Solids	74	**225**		mg/L
5923	Chloride	LW7S	0411051-10	11/9/04	9056	Chloride	75	**3.2**		mg/L
5924	pH	LW7S	0411051-10	11/9/04	FIELD	pH	82	6.51		s.u.
5925	Temperature	LW7S	0411051-10	11/9/04	FIELD	Temperature	83	15.8		c
5926	Conductivity	LW7S	0411051-10	11/9/04	FIELD	Conductivity	84	285		us
5927	Dissolved oxygen	LW7S	0411051-10	11/9/04	FIELD	Dissolved oxygen	85	1.68		mg/l
5928	Naphthalene	LW7S	0411051-10	11/9/04	8270SIM	Naphthalene	119	**0.503**		ug/L
5929	Acenaphthylene	LW7S	0411051-10	11/9/04	8270SIM	Acenaphthylene	121	0.0493	U	ug/L
5930	Acenaphthene	LW7S	0411051-10	11/9/04	8270SIM	Acenaphthene	122	0.0493	U	ug/L
5931	Fluorene	LW7S	0411051-10	11/9/04	8270SIM	Fluorene	123	0.0493	U	ug/L
5932	Anthracene	LW7S	0411051-10	11/9/04	8270SIM	Anthracene	124	0.0493	U	ug/L
5933	1,1,1,2-Tetrachloroethane	LW7S	0411051-10	11/9/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
5934	1,1,1-Trichloroethane	LW7S	0411051-10	11/9/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
5935	1,1,2,2-Tetrachloroethane	LW7S	0411051-10	11/9/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
5936	1,1,2-Trichloroethane	LW7S	0411051-10	11/9/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
5937	1,1-Dichloroethane	LW7S	0411051-10	11/9/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
5938	1,1-Dichloroethene	LW7S	0411051-10	11/9/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
5939	1,1-Dichloropropene	LW7S	0411051-10	11/9/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
5940	1,2,3-Trichlorobenzene	LW7S	0411051-10	11/9/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
5941	1,2,3-Trichloropropane	LW7S	0411051-10	11/9/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
5942	1,2,4-Trichlorobenzene	LW7S	0411051-10	11/9/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
5943	1,2-Dibromo-3-chloropropane	LW7S	0411051-10	11/9/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
5944	1,2-Dibromoethane	LW7S	0411051-10	11/9/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
5945	1,2-Dichlorobenzene	LW7S	0411051-10	11/9/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
5946	1,2-Dichloroethane	LW7S	0411051-10	11/9/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
5947	1,2-Dichloropropane	LW7S	0411051-10	11/9/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
5948	1,3-Dichlorobenzene	LW7S	0411051-10	11/9/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
5949	1,3-Dichloropropane	LW7S	0411051-10	11/9/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
5950	1,4-Dichlorobenzene	LW7S	0411051-10	11/9/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
5951	2,2-Dichloropropane	LW7S	0411051-10	11/9/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
5952	2-Chlorotoluene	LW7S	0411051-10	11/9/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
5953	2-Hexanone	LW7S	0411051-10	11/9/04	8260	2-Hexanone	#N/A	10	U	ug/L
5954	4-Chlorotoluene	LW7S	0411051-10	11/9/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
5955	4-Methyl-2-pentanone	LW7S	0411051-10	11/9/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
5956	Acrylonitrile	LW7S	0411051-10	11/9/04	8260	Acrylonitrile	#N/A	5	U	ug/L
5957	Bromobenzene	LW7S	0411051-10	11/9/04	8260	Bromobenzene	#N/A	1	U	ug/L
5958	Bromochloromethane	LW7S	0411051-10	11/9/04	8260	Bromochloromethane	#N/A	1	U	ug/L
5959	Bromodichloromethane	LW7S	0411051-10	11/9/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
5960	Bromomethane	LW7S	0411051-10	11/9/04	8260	Bromomethane	#N/A	1	U	ug/L
5961	Carbon tetrachloride	LW7S	0411051-10	11/9/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
5962	Chlorobenzene	LW7S	0411051-10	11/9/04	8260	Chlorobenzene	#N/A	1	U	ug/L
5963	Chloroethane	LW7S	0411051-10	11/9/04	8260	Chloroethane	#N/A	1	U	ug/L
5964	Chloroform	LW7S	0411051-10	11/9/04	8260	Chloroform	#N/A	1	U	ug/L
5965	Chloromethane	LW7S	0411051-10	11/9/04	8260	Chloromethane	#N/A	1	U	ug/L
5966	cis-1,2-Dichloroethene	LW7S	0411051-10	11/9/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
5967	cis-1,3-Dichloropropene	LW7S	0411051-10	11/9/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
5968	Dibromochloromethane	LW7S	0411051-10	11/9/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
5969	Dibromomethane	LW7S	0411051-10	11/9/04	8260	Dibromomethane	#N/A	1	U	ug/L
5970	Dichlorodifluoromethane	LW7S	0411051-10	11/9/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
5971	Hexachlorobutadiene	LW7S	0411051-10	11/9/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
5972	Methylene chloride	LW7S	0411051-10	11/9/04	8260	Methylene chloride	#N/A	20	U	ug/L
5973	Tetrachloroethene	LW7S	0411051-10	11/9/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
5974	trans-1,2-Dichloroethene	LW7S	0411051-10	11/9/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
5975	trans-1,3-Dichloropropene	LW7S	0411051-10	11/9/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
5976	Trichloroethene	LW7S	0411051-10	11/9/04	8260	Trichloroethene	#N/A	1	U	ug/L
5977	Trichlorofluoromethane	LW7S	0411051-10	11/9/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
5978	Vinyl chloride	LW7S	0411051-10	11/9/04	8260	Vinyl chloride	#N/A	1	U	ug/L
5979	1,2,4-Trichlorobenzene	LW7S	0411051-10	11/9/04	8270	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
5980	1,2-Dichlorobenzene	LW7S	0411051-10	11/9/04	8270	1,2-Dichlorobenzene	#N/A	1	U	ug/L
5981	1,3-Dichlorobenzene	LW7S	0411051-10	11/9/04	8270	1,3-Dichlorobenzene	#N/A	1	U	ug/L
5982	1,4-Dichlorobenzene	LW7S	0411051-10	11/9/04	8270	1,4-Dichlorobenzene	#N/A	1	U	ug/L
5983	2,4-Dichlorophenol	LW7S	0411051-10	11/9/04	8270	2,4-Dichlorophenol	#N/A	3.01	U	ug/L
5984	2,4-Dinitrophenol	LW7S	0411051-10	11/9/04	8270	2,4-Dinitrophenol	#N/A	10	U	ug/L
5985	2,4-Dinitrotoluene	LW7S	0411051-10	11/9/04	8270	2,4-Dinitrotoluene	#N/A	5.01	U	ug/L
5986	2,6-Dinitrotoluene	LW7S	0411051-10	11/9/04	8270	2,6-Dinitrotoluene	#N/A	5.01	U	ug/L

	A	B	C	D	E	F	G	H	I	J
5987	2-Chloronaphthalene	LW7S	0411051-10	11/9/04	8270	2-Chloronaphthalene	#N/A	1	U	ug/L
5988	2-Chlorophenol	LW7S	0411051-10	11/9/04	8270	2-Chlorophenol	#N/A	1	U	ug/L
5989	2-Methylphenol	LW7S	0411051-10	11/9/04	8270	2-Methylphenol	#N/A	2	U	ug/L
5990	2-Nitroaniline	LW7S	0411051-10	11/9/04	8270	2-Nitroaniline	#N/A	5.01	U	ug/L
5991	2-Nitrophenol	LW7S	0411051-10	11/9/04	8270	2-Nitrophenol	#N/A	5.01	U	ug/L
5992	3,3'-Dichlorobenzidine	LW7S	0411051-10	11/9/04	8270	3,3'-Dichlorobenzidine	#N/A	5.01	U	ug/L
5993	3-Nitroaniline	LW7S	0411051-10	11/9/04	8270	3-Nitroaniline	#N/A	6.01	U	ug/L
5994	4,6-Dinitro-2-methylphenol	LW7S	0411051-10	11/9/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10	U	ug/L
5995	4-Bromophenyl phenyl ether	LW7S	0411051-10	11/9/04	8270	4-Bromophenyl phenyl ether	#N/A	1	U	ug/L
5996	4-Chloro-3-methylphenol	LW7S	0411051-10	11/9/04	8270	4-Chloro-3-methylphenol	#N/A	2	U	ug/L
5997	4-Chloroaniline	LW7S	0411051-10	11/9/04	8270	4-Chloroaniline	#N/A	3.01	U	ug/L
5998	4-Chlorophenyl phenyl ether	LW7S	0411051-10	11/9/04	8270	4-Chlorophenyl phenyl ether	#N/A	1	U	ug/L
5999	4-Nitroaniline	LW7S	0411051-10	11/9/04	8270	4-Nitroaniline	#N/A	5.01	U	ug/L
6000	4-Nitrophenol	LW7S	0411051-10	11/9/04	8270	4-Nitrophenol	#N/A	5.01	U	ug/L
6001	Benz(a)anthracene	LW7S	0411051-10	11/9/04	8270	Benz(a)anthracene	#N/A	1	U	ug/L
6002	Benzo(a)pyrene	LW7S	0411051-10	11/9/04	8270	Benzo(a)pyrene	#N/A	1	U	ug/L
6003	Benzo(b)fluoranthene	LW7S	0411051-10	11/9/04	8270	Benzo(b)fluoranthene	#N/A	1	U	ug/L
6004	Benzo(g,h,i)perylene	LW7S	0411051-10	11/9/04	8270	Benzo(g,h,i)perylene	#N/A	1	U	ug/L
6005	Benzo(k)fluoranthene	LW7S	0411051-10	11/9/04	8270	Benzo(k)fluoranthene	#N/A	1	U	ug/L
6006	Benzyl Alcohol	LW7S	0411051-10	11/9/04	8270	Benzyl Alcohol	#N/A	5.01	U	ug/L
6007	Bis(2-chloroethoxy)methane	LW7S	0411051-10	11/9/04	8270	Bis(2-chloroethoxy)methane	#N/A	1	U	ug/L
6008	Bis(2-chloroethyl)ether	LW7S	0411051-10	11/9/04	8270	Bis(2-chloroethyl)ether	#N/A	2	U	ug/L
6009	Bis(2-chloroisopropyl)ether	LW7S	0411051-10	11/9/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1	U	ug/L
6010	Butyl benzyl phthalate	LW7S	0411051-10	11/9/04	8270	Butyl benzyl phthalate	#N/A	1	U	ug/L
6011	Carbazole	LW7S	0411051-10	11/9/04	8270	Carbazole	#N/A	1	U	ug/L
6012	Chrysene	LW7S	0411051-10	11/9/04	8270	Chrysene	#N/A	1	U	ug/L
6013	Dibenz(a,h)anthracene	LW7S	0411051-10	11/9/04	8270	Dibenz(a,h)anthracene	#N/A	1	U	ug/L
6014	Diethyl phthalate	LW7S	0411051-10	11/9/04	8270	Diethyl phthalate	#N/A	1	U	ug/L
6015	Dimethyl phthalate	LW7S	0411051-10	11/9/04	8270	Dimethyl phthalate	#N/A	1	U	ug/L
6016	Di-n-butyl phthalate	LW7S	0411051-10	11/9/04	8270	Di-n-butyl phthalate	#N/A	1	U	ug/L
6017	Di-n-octyl phthalate	LW7S	0411051-10	11/9/04	8270	Di-n-octyl phthalate	#N/A	1	U	ug/L
6018	Fluoranthene	LW7S	0411051-10	11/9/04	8270	Fluoranthene	#N/A	1	U	ug/L
6019	Hexachlorobenzene	LW7S	0411051-10	11/9/04	8270	Hexachlorobenzene	#N/A	1	U	ug/L
6020	Hexachlorobutadiene	LW7S	0411051-10	11/9/04	8270	Hexachlorobutadiene	#N/A	2	U	ug/L
6021	Hexachlorocyclopentadiene	LW7S	0411051-10	11/9/04	8270	Hexachlorocyclopentadiene	#N/A	5.01	U	ug/L
6022	Hexachloroethane	LW7S	0411051-10	11/9/04	8270	Hexachloroethane	#N/A	2	U	ug/L
6023	Indeno(1,2,3-cd)pyrene	LW7S	0411051-10	11/9/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1	U	ug/L
6024	Nitrobenzene	LW7S	0411051-10	11/9/04	8270	Nitrobenzene	#N/A	1	U	ug/L
6025	N-Nitrosodimethylamine	LW7S	0411051-10	11/9/04	8270	N-Nitrosodimethylamine	#N/A	1	U	ug/L
6026	N-Nitrosodi-n-propylamine	LW7S	0411051-10	11/9/04	8270	N-Nitrosodi-n-propylamine	#N/A	2	U	ug/L
6027	N-Nitrosodiphenylamine	LW7S	0411051-10	11/9/04	8270	N-Nitrosodiphenylamine	#N/A	1	U	ug/L
6028	Phenanthrene	LW7S	0411051-10	11/9/04	8270	Phenanthrene	#N/A	1	U	ug/L
6029	Pyrene	LW7S	0411051-10	11/9/04	8270	Pyrene	#N/A	1	U	ug/L
6030	Pyridine	LW7S	0411051-10	11/9/04	8270	Pyridine	#N/A	5.01	U	ug/L
6031	Benz(a)anthracene	LW7S	0411051-10	11/9/04	8270SIM	Benz(a)anthracene	#N/A	0.0493	U	ug/L
6032	Benzo(a)pyrene	LW7S	0411051-10	11/9/04	8270SIM	Benzo(a)pyrene	#N/A	0.0493	U	ug/L
6033	Benzo(b)fluoranthene	LW7S	0411051-10	11/9/04	8270SIM	Benzo(b)fluoranthene	#N/A	0.0493	U	ug/L
6034	Benzo(g,h,i)perylene	LW7S	0411051-10	11/9/04	8270SIM	Benzo(g,h,i)perylene	#N/A	0.0493	U	ug/L
6035	Benzo(k)fluoranthene	LW7S	0411051-10	11/9/04	8270SIM	Benzo(k)fluoranthene	#N/A	0.0493	U	ug/L
6036	Chrysene	LW7S	0411051-10	11/9/04	8270SIM	Chrysene	#N/A	0.0493	U	ug/L
6037	Dibenz(a,h)anthracene	LW7S	0411051-10	11/9/04	8270SIM	Dibenz(a,h)anthracene	#N/A	0.0493	U	ug/L
6038	Fluoranthene	LW7S	0411051-10	11/9/04	8270SIM	Fluoranthene	#N/A	0.0493	U	ug/L
6039	Indeno(1,2,3-cd)pyrene	LW7S	0411051-10	11/9/04	8270SIM	Indeno(1,2,3-cd)pyrene	#N/A	0.0493	U	ug/L
6040	Phenanthrene	LW7S	0411051-10	11/9/04	8270SIM	Phenanthrene	#N/A	0.0493	U	ug/L
6041	Pyrene	LW7S	0411051-10	11/9/04	8270SIM	Pyrene	#N/A	0.0493	U	ug/L
6042	Turbidity	LW7S	0411051-10	11/9/04	FIELD	Turbidity	#N/A	0		ntu
6043	Pentachlorophenol	LW8S	0411051-09	11/9/04	8270	Pentachlorophenol	3	5.04	U	ug/L
6044	Phenol	LW8S	0411051-09	11/9/04	8270	Phenol	13	2.01	U	ug/L
6045	3-&4-Methylphenol	LW8S	0411051-09	11/9/04	8270	3-&4-Methylphenol	14	10.1	U	ug/L
6046	Isophorone	LW8S	0411051-09	11/9/04	8270	Isophorone	15	1.01	U	ug/L
6047	2,4-Dimethylphenol	LW8S	0411051-09	11/9/04	8270	2,4-Dimethylphenol	16	3.02	U	ug/L
6048	Benzoic Acid	LW8S	0411051-09	11/9/04	8270	Benzoic Acid	17	20.1	U	ug/L
6049	Naphthalene	LW8S	0411051-09	11/9/04	8270	Naphthalene	18	1.01	U	ug/L
6050	2-Methylnaphthalene	LW8S	0411051-09	11/9/04	8270	2-Methylnaphthalene	19	1.01	U	ug/L
6051	2,4,6-Trichlorophenol	LW8S	0411051-09	11/9/04	8270	2,4,6-Trichlorophenol	20	5.04	U	ug/L
6052	2,4,5-Trichlorophenol	LW8S	0411051-09	11/9/04	8270	2,4,5-Trichlorophenol	21	5.04	U	ug/L
6053	Acenaphthene	LW8S	0411051-09	11/9/04	8270	Acenaphthene	22	1.01	U	ug/L
6054	Dibenzofuran	LW8S	0411051-09	11/9/04	8270	Dibenzofuran	23	1.01	U	ug/L
6055	Fluorene	LW8S	0411051-09	11/9/04	8270	Fluorene	24	1.01	U	ug/L
6056	Pentachlorophenol	LW8S	0411051-09	11/9/04	8270SIM	Pentachlorophenol	25	0.525	U	ug/L
6057	Bis(2-ethylhexyl)phthalate	LW8S	0411051-09	11/9/04	8270	Bis(2-ethylhexyl)phthalate	26	1.01	U	ug/L
6058	Acetone	LW8S	0411051-09	11/9/04	8260	Acetone	30	50	U	ug/L
6059	Carbon disulfide	LW8S	0411051-09	11/9/04	8260	Carbon disulfide	31	2	U	ug/L

	A	B	C	D	E	F	G	H	I	J
6060	2-Butanone	LW8S	0411051-09	11/9/04	8260	2-Butanone	32	**45.8**		ug/L
6061	Benzene	LW8S	0411051-09	11/9/04	8260	Benzene	33	**0.59**		ug/L
6062	Bromoform	LW8S	0411051-09	11/9/04	8260	Bromoform	34	1	U	ug/L
6063	Toluene	LW8S	0411051-09	11/9/04	8260	Toluene	35	1	U	ug/L
6064	Ethylbenzene	LW8S	0411051-09	11/9/04	8260	Ethylbenzene	36	**3.7**		ug/L
6065	Styrene	LW8S	0411051-09	11/9/04	8260	Styrene	37	1	U	ug/L
6066	m,p-Xylene	LW8S	0411051-09	11/9/04	8260	m,p-Xylene	38	2	U	ug/L
6067	o-Xylene	LW8S	0411051-09	11/9/04	8260	o-Xylene	39	1	U	ug/L
6068	1,3,5-Trimethylbenzene	LW8S	0411051-09	11/9/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
6069	1,2,4-Trimethylbenzene	LW8S	0411051-09	11/9/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
6070	Isopropylbenzene	LW8S	0411051-09	11/9/04	8260	Isopropylbenzene	42	**52.4**		ug/L
6071	n-Propylbenzene	LW8S	0411051-09	11/9/04	8260	n-Propylbenzene	43	**93.2**		ug/L
6072	tert-Butylbenzene	LW8S	0411051-09	11/9/04	8260	tert-Butylbenzene	44	**6.74**		ug/L
6073	sec-Butylbenzene	LW8S	0411051-09	11/9/04	8260	sec-Butylbenzene	45	**18.5**		ug/L
6074	4-Isopropyltoluene	LW8S	0411051-09	11/9/04	8260	4-Isopropyltoluene	46	1	U	ug/L
6075	n-Butylbenzene	LW8S	0411051-09	11/9/04	8260	n-Butylbenzene	47	**7.05**		ug/L
6076	Naphthalene	LW8S	0411051-09	11/9/04	8260	Naphthalene	48	1	U	ug/L
6077	Methyl tert-butyl ether	LW8S	0411051-09	11/9/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
6078	Diesel Range Hydrocarbons	LW8S	0411051-09	11/9/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**4.11**		mg/L
6079	Lube Oil	LW8S	0411051-09	11/9/04	NWTPH-Dx	Lube Oil	54	0.484	U	mg/L
6080	Gasoline Range Hydrocarbons	LW8S	0411051-09	11/9/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**4.37**		ug/L
6081	Arsenic	LW8S	0411051-09	11/9/04	6020	Arsenic	59	**0.0239**		ug/L
6082	Chromium	LW8S	0411051-09	11/9/04	6010	Chromium	60	0.005	U	mg/L
6083	Copper	LW8S	0411051-09	11/9/04	6010	Copper	61	0.01	U	mg/L
6084	Lead	LW8S	0411051-09	11/9/04	6020	Lead	62	0.00013	U	ug/L
6085	Nickel	LW8S	0411051-09	11/9/04	6010	Nickel	63	0.005	U	mg/L
6086	Zinc	LW8S	0411051-09	11/9/04	6010	Zinc	64	0.01	U	mg/L
6087	Total Dissolved Solids	LW8S	0411051-09	11/9/04	1601	Total Dissolved Solids	74	**240**		mg/L
6088	Chloride	LW8S	0411051-09	11/9/04	9056	Chloride	75	**3.72**		mg/L
6089	pH	LW8S	0411051-09	11/9/04	FIELD	pH	82	6.43		s.u.
6090	Temperature	LW8S	0411051-09	11/9/04	FIELD	Temperature	83	15.7		c
6091	Conductivity	LW8S	0411051-09	11/9/04	FIELD	Conductivity	84	343		us
6092	Dissolved oxygen	LW8S	0411051-09	11/9/04	FIELD	Dissolved oxygen	85	1.79		mg/l
6093	1,1,1,2-Tetrachloroethane	LW8S	0411051-09	11/9/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
6094	1,1,1-Trichloroethane	LW8S	0411051-09	11/9/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
6095	1,1,2,2-Tetrachloroethane	LW8S	0411051-09	11/9/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
6096	1,1,2-Trichloroethane	LW8S	0411051-09	11/9/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
6097	1,1-Dichloroethane	LW8S	0411051-09	11/9/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
6098	1,1-Dichloroethene	LW8S	0411051-09	11/9/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
6099	1,1-Dichloropropene	LW8S	0411051-09	11/9/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
6100	1,2,3-Trichlorobenzene	LW8S	0411051-09	11/9/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
6101	1,2,3-Trichloropropane	LW8S	0411051-09	11/9/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
6102	1,2,4-Trichlorobenzene	LW8S	0411051-09	11/9/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
6103	1,2-Dibromo-3-chloropropane	LW8S	0411051-09	11/9/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
6104	1,2-Dibromoethane	LW8S	0411051-09	11/9/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
6105	1,2-Dichlorobenzene	LW8S	0411051-09	11/9/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
6106	1,2-Dichloroethane	LW8S	0411051-09	11/9/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
6107	1,2-Dichloropropane	LW8S	0411051-09	11/9/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
6108	1,3-Dichlorobenzene	LW8S	0411051-09	11/9/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
6109	1,3-Dichloropropane	LW8S	0411051-09	11/9/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
6110	1,4-Dichlorobenzene	LW8S	0411051-09	11/9/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
6111	2,2-Dichloropropane	LW8S	0411051-09	11/9/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
6112	2-Chlorotoluene	LW8S	0411051-09	11/9/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
6113	2-Hexanone	LW8S	0411051-09	11/9/04	8260	2-Hexanone	#N/A	10	U	ug/L
6114	4-Chlorotoluene	LW8S	0411051-09	11/9/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
6115	4-Methyl-2-pentanone	LW8S	0411051-09	11/9/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
6116	Acrylonitrile	LW8S	0411051-09	11/9/04	8260	Acrylonitrile	#N/A	5	U	ug/L
6117	Bromobenzene	LW8S	0411051-09	11/9/04	8260	Bromobenzene	#N/A	1	U	ug/L
6118	Bromochloromethane	LW8S	0411051-09	11/9/04	8260	Bromochloromethane	#N/A	1	U	ug/L
6119	Bromodichloromethane	LW8S	0411051-09	11/9/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
6120	Bromomethane	LW8S	0411051-09	11/9/04	8260	Bromomethane	#N/A	1	U	ug/L
6121	Carbon tetrachloride	LW8S	0411051-09	11/9/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
6122	Chlorobenzene	LW8S	0411051-09	11/9/04	8260	Chlorobenzene	#N/A	1	U	ug/L
6123	Chloroethane	LW8S	0411051-09	11/9/04	8260	Chloroethane	#N/A	1	U	ug/L
6124	Chloroform	LW8S	0411051-09	11/9/04	8260	Chloroform	#N/A	1	U	ug/L
6125	Chloromethane	LW8S	0411051-09	11/9/04	8260	Chloromethane	#N/A	1	U	ug/L
6126	cis-1,2-Dichloroethene	LW8S	0411051-09	11/9/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
6127	cis-1,3-Dichloropropene	LW8S	0411051-09	11/9/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
6128	Dibromochloromethane	LW8S	0411051-09	11/9/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
6129	Dibromomethane	LW8S	0411051-09	11/9/04	8260	Dibromomethane	#N/A	1	U	ug/L
6130	Dichlorodifluoromethane	LW8S	0411051-09	11/9/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
6131	Hexachlorobutadiene	LW8S	0411051-09	11/9/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
6132	Methylene chloride	LW8S	0411051-09	11/9/04	8260	Methylene chloride	#N/A	20	U	ug/L

	A	B	C	D	E	F	G	H	I	J
6133	Tetrachloroethene	LW8S	0411051-09	11/9/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
6134	trans-1,2-Dichloroethene	LW8S	0411051-09	11/9/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
6135	trans-1,3-Dichloropropene	LW8S	0411051-09	11/9/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
6136	Trichloroethene	LW8S	0411051-09	11/9/04	8260	Trichloroethene	#N/A	1	U	ug/L
6137	Trichlorofluoromethane	LW8S	0411051-09	11/9/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
6138	Vinyl chloride	LW8S	0411051-09	11/9/04	8260	Vinyl chloride	#N/A	1	U	ug/L
6139	1,2,4-Trichlorobenzene	LW8S	0411051-09	11/9/04	8270	1,2,4-Trichlorobenzene	#N/A	1.01	U	ug/L
6140	1,2-Dichlorobenzene	LW8S	0411051-09	11/9/04	8270	1,2-Dichlorobenzene	#N/A	1.01	U	ug/L
6141	1,3-Dichlorobenzene	LW8S	0411051-09	11/9/04	8270	1,3-Dichlorobenzene	#N/A	1.01	U	ug/L
6142	1,4-Dichlorobenzene	LW8S	0411051-09	11/9/04	8270	1,4-Dichlorobenzene	#N/A	1.01	U	ug/L
6143	2,4-Dichlorophenol	LW8S	0411051-09	11/9/04	8270	2,4-Dichlorophenol	#N/A	3.02	U	ug/L
6144	2,4-Dinitrophenol	LW8S	0411051-09	11/9/04	8270	2,4-Dinitrophenol	#N/A	10.1	U	ug/L
6145	2,4-Dinitrotoluene	LW8S	0411051-09	11/9/04	8270	2,4-Dinitrotoluene	#N/A	5.04	U	ug/L
6146	2,6-Dinitrotoluene	LW8S	0411051-09	11/9/04	8270	2,6-Dinitrotoluene	#N/A	5.04	U	ug/L
6147	2-Chloronaphthalene	LW8S	0411051-09	11/9/04	8270	2-Chloronaphthalene	#N/A	1.01	U	ug/L
6148	2-Chlorophenol	LW8S	0411051-09	11/9/04	8270	2-Chlorophenol	#N/A	1.01	U	ug/L
6149	2-Methylphenol	LW8S	0411051-09	11/9/04	8270	2-Methylphenol	#N/A	2.01	U	ug/L
6150	2-Nitroaniline	LW8S	0411051-09	11/9/04	8270	2-Nitroaniline	#N/A	5.04	U	ug/L
6151	2-Nitrophenol	LW8S	0411051-09	11/9/04	8270	2-Nitrophenol	#N/A	5.04	U	ug/L
6152	3,3'-Dichlorobenzidine	LW8S	0411051-09	11/9/04	8270	3,3'-Dichlorobenzidine	#N/A	5.04	U	ug/L
6153	3-Nitroaniline	LW8S	0411051-09	11/9/04	8270	3-Nitroaniline	#N/A	6.04	U	ug/L
6154	4,6-Dinitro-2-methylphenol	LW8S	0411051-09	11/9/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.1	U	ug/L
6155	4-Bromophenyl phenyl ether	LW8S	0411051-09	11/9/04	8270	4-Bromophenyl phenyl ether	#N/A	1.01	U	ug/L
6156	4-Chloro-3-methylphenol	LW8S	0411051-09	11/9/04	8270	4-Chloro-3-methylphenol	#N/A	2.01	U	ug/L
6157	4-Chloroaniline	LW8S	0411051-09	11/9/04	8270	4-Chloroaniline	#N/A	3.02	U	ug/L
6158	4-Chlorophenyl phenyl ether	LW8S	0411051-09	11/9/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.01	U	ug/L
6159	4-Nitroaniline	LW8S	0411051-09	11/9/04	8270	4-Nitroaniline	#N/A	5.04	U	ug/L
6160	4-Nitrophenol	LW8S	0411051-09	11/9/04	8270	4-Nitrophenol	#N/A	5.04	U	ug/L
6161	Benz(a)anthracene	LW8S	0411051-09	11/9/04	8270	Benz(a)anthracene	#N/A	1.01	U	ug/L
6162	Benzo(a)pyrene	LW8S	0411051-09	11/9/04	8270	Benzo(a)pyrene	#N/A	1.01	U	ug/L
6163	Benzo(b)fluoranthene	LW8S	0411051-09	11/9/04	8270	Benzo(b)fluoranthene	#N/A	1.01	U	ug/L
6164	Benzo(g,h,i)perylene	LW8S	0411051-09	11/9/04	8270	Benzo(g,h,i)perylene	#N/A	1.01	U	ug/L
6165	Benzo(k)fluoranthene	LW8S	0411051-09	11/9/04	8270	Benzo(k)fluoranthene	#N/A	1.01	U	ug/L
6166	Benzyl Alcohol	LW8S	0411051-09	11/9/04	8270	Benzyl Alcohol	#N/A	5.04	U	ug/L
6167	Bis(2-chloroethoxy)methane	LW8S	0411051-09	11/9/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.01	U	ug/L
6168	Bis(2-chloroethyl)ether	LW8S	0411051-09	11/9/04	8270	Bis(2-chloroethyl)ether	#N/A	2.01	U	ug/L
6169	Bis(2-chloroisopropyl)ether	LW8S	0411051-09	11/9/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.01	U	ug/L
6170	Butyl benzyl phthalate	LW8S	0411051-09	11/9/04	8270	Butyl benzyl phthalate	#N/A	1.01	U	ug/L
6171	Carbazole	LW8S	0411051-09	11/9/04	8270	Carbazole	#N/A	1.01	U	ug/L
6172	Chrysene	LW8S	0411051-09	11/9/04	8270	Chrysene	#N/A	1.01	U	ug/L
6173	Dibenz(a,h)anthracene	LW8S	0411051-09	11/9/04	8270	Dibenz(a,h)anthracene	#N/A	1.01	U	ug/L
6174	Diethyl phthalate	LW8S	0411051-09	11/9/04	8270	Diethyl phthalate	#N/A	1.01	U	ug/L
6175	Dimethyl phthalate	LW8S	0411051-09	11/9/04	8270	Dimethyl phthalate	#N/A	1.01	U	ug/L
6176	Di-n-butyl phthalate	LW8S	0411051-09	11/9/04	8270	Di-n-butyl phthalate	#N/A	1.01	U	ug/L
6177	Di-n-octyl phthalate	LW8S	0411051-09	11/9/04	8270	Di-n-octyl phthalate	#N/A	1.01	U	ug/L
6178	Fluoranthene	LW8S	0411051-09	11/9/04	8270	Fluoranthene	#N/A	1.01	U	ug/L
6179	Hexachlorobenzene	LW8S	0411051-09	11/9/04	8270	Hexachlorobenzene	#N/A	1.01	U	ug/L
6180	Hexachlorobutadiene	LW8S	0411051-09	11/9/04	8270	Hexachlorobutadiene	#N/A	2.01	U	ug/L
6181	Hexachlorocyclopentadiene	LW8S	0411051-09	11/9/04	8270	Hexachlorocyclopentadiene	#N/A	5.04	U	ug/L
6182	Hexachloroethane	LW8S	0411051-09	11/9/04	8270	Hexachloroethane	#N/A	2.01	U	ug/L
6183	Indeno(1,2,3-cd)pyrene	LW8S	0411051-09	11/9/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.01	U	ug/L
6184	Nitrobenzene	LW8S	0411051-09	11/9/04	8270	Nitrobenzene	#N/A	1.01	U	ug/L
6185	N-Nitrosodimethylamine	LW8S	0411051-09	11/9/04	8270	N-Nitrosodimethylamine	#N/A	1.01	U	ug/L
6186	N-Nitrosodi-n-propylamine	LW8S	0411051-09	11/9/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.01	U	ug/L
6187	N-Nitrosodiphenylamine	LW8S	0411051-09	11/9/04	8270	N-Nitrosodiphenylamine	#N/A	1.01	U	ug/L
6188	Phenanthrene	LW8S	0411051-09	11/9/04	8270	Phenanthrene	#N/A	1.01	U	ug/L
6189	Pyrene	LW8S	0411051-09	11/9/04	8270	Pyrene	#N/A	1.01	U	ug/L
6190	Pyridine	LW8S	0411051-09	11/9/04	8270	Pyridine	#N/A	5.04	U	ug/L
6191	Turbidity	LW8S	0411051-09	11/9/04	FIELD	Turbidity	#N/A	0		ntu
6192	Pentachlorophenol	LW9D	0411051-02	11/9/04	8270	Pentachlorophenol	3	5.01	U	ug/L
6193	Phenol	LW9D	0411051-02	11/9/04	8270	Phenol	13	2	U	ug/L
6194	3-&4-Methylphenol	LW9D	0411051-02	11/9/04	8270	3-&4-Methylphenol	14	10	U	ug/L
6195	Isophorone	LW9D	0411051-02	11/9/04	8270	Isophorone	15	1	U	ug/L
6196	2,4-Dimethylphenol	LW9D	0411051-02	11/9/04	8270	2,4-Dimethylphenol	16	3.01	U	ug/L
6197	Benzoic Acid	LW9D	0411051-02	11/9/04	8270	Benzoic Acid	17	20	U	ug/L
6198	Naphthalene	LW9D	0411051-02	11/9/04	8270	Naphthalene	18	1	U	ug/L
6199	2-Methylnaphthalene	LW9D	0411051-02	11/9/04	8270	2-Methylnaphthalene	19	1	U	ug/L
6200	2,4,6-Trichlorophenol	LW9D	0411051-02	11/9/04	8270	2,4,6-Trichlorophenol	20	5.01	U	ug/L
6201	2,4,5-Trichlorophenol	LW9D	0411051-02	11/9/04	8270	2,4,5-Trichlorophenol	21	5.01	U	ug/L
6202	Acenaphthene	LW9D	0411051-02	11/9/04	8270	Acenaphthene	22	1	U	ug/L
6203	Dibenzofuran	LW9D	0411051-02	11/9/04	8270	Dibenzofuran	23	1	U	ug/L
6204	Fluorene	LW9D	0411051-02	11/9/04	8270	Fluorene	24	1	U	ug/L
6205	Pentachlorophenol	LW9D	0411051-02	11/9/04	8270SIM	Pentachlorophenol	25	0.504	U	ug/L

	A	B	C	D	E	F	G	H	I	J
6206	Bis(2-ethylhexyl)phthalate	LW9D	0411051-02	11/9/04	8270	Bis(2-ethylhexyl)phthalate	26	1	U	ug/L
6207	Acetone	LW9D	0411051-02	11/9/04	8260	Acetone	30	50	U	ug/L
6208	Carbon disulfide	LW9D	0411051-02	11/9/04	8260	Carbon disulfide	31	2	U	ug/L
6209	2-Butanone	LW9D	0411051-02	11/9/04	8260	2-Butanone	32	10	U	ug/L
6210	Benzene	LW9D	0411051-02	11/9/04	8260	Benzene	33	0.3	U	ug/L
6211	Bromoform	LW9D	0411051-02	11/9/04	8260	Bromoform	34	1	U	ug/L
6212	Toluene	LW9D	0411051-02	11/9/04	8260	Toluene	35	1	U	ug/L
6213	Ethylbenzene	LW9D	0411051-02	11/9/04	8260	Ethylbenzene	36	1	U	ug/L
6214	Styrene	LW9D	0411051-02	11/9/04	8260	Styrene	37	1	U	ug/L
6215	m,p-Xylene	LW9D	0411051-02	11/9/04	8260	m,p-Xylene	38	2	U	ug/L
6216	o-Xylene	LW9D	0411051-02	11/9/04	8260	o-Xylene	39	1	U	ug/L
6217	1,3,5-Trimethylbenzene	LW9D	0411051-02	11/9/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
6218	1,2,4-Trimethylbenzene	LW9D	0411051-02	11/9/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
6219	Isopropylbenzene	LW9D	0411051-02	11/9/04	8260	Isopropylbenzene	42	**1.74**		ug/L
6220	n-Propylbenzene	LW9D	0411051-02	11/9/04	8260	n-Propylbenzene	43	1	U	ug/L
6221	tert-Butylbenzene	LW9D	0411051-02	11/9/04	8260	tert-Butylbenzene	44	**1.03**		ug/L
6222	sec-Butylbenzene	LW9D	0411051-02	11/9/04	8260	sec-Butylbenzene	45	1	U	ug/L
6223	4-Isopropyltoluene	LW9D	0411051-02	11/9/04	8260	4-Isopropyltoluene	46	1	U	ug/L
6224	n-Butylbenzene	LW9D	0411051-02	11/9/04	8260	n-Butylbenzene	47	1	U	ug/L
6225	Naphthalene	LW9D	0411051-02	11/9/04	8260	Naphthalene	48	1	U	ug/L
6226	Methyl tert-butyl ether	LW9D	0411051-02	11/9/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
6227	Diesel Range Hydrocarbons	LW9D	0411051-02	11/9/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.289**		mg/L
6228	Lube Oil	LW9D	0411051-02	11/9/04	NWTPH-Dx	Lube Oil	54	0.514	U	mg/L
6229	Arsenic	LW9D	0411051-02	11/9/04	6020	Arsenic	59	**0.0458**		ug/L
6230	Chromium	LW9D	0411051-02	11/9/04	6010	Chromium	60	**0.0182**		mg/L
6231	Copper	LW9D	0411051-02	11/9/04	6010	Copper	61	0.01	U	mg/L
6232	Lead	LW9D	0411051-02	11/9/04	6020	Lead	62	**0.00068**		ug/L
6233	Nickel	LW9D	0411051-02	11/9/04	6010	Nickel	63	0.005	U	mg/L
6234	Zinc	LW9D	0411051-02	11/9/04	6010	Zinc	64	0.0124	U	mg/L
6235	Total Dissolved Solids	LW9D	0411051-02	11/9/04	1601	Total Dissolved Solids	74	**229**		mg/L
6236	Chloride	LW9D	0411051-02	11/9/04	9056	Chloride	75	**1.27**		mg/L
6237	pH	LW9D	0411051-02	11/9/04	FIELD	pH	82	6.76		s.u.
6238	Temperature	LW9D	0411051-02	11/9/04	FIELD	Temperature	83	14.6		c
6239	Conductivity	LW9D	0411051-02	11/9/04	FIELD	Conductivity	84	303		us
6240	Dissolved oxygen	LW9D	0411051-02	11/9/04	FIELD	Dissolved oxygen	85	1.9		mg/l
6241	1,1,1,2-Tetrachloroethane	LW9D	0411051-02	11/9/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
6242	1,1,1-Trichloroethane	LW9D	0411051-02	11/9/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
6243	1,1,2,2-Tetrachloroethane	LW9D	0411051-02	11/9/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
6244	1,1,2-Trichloroethane	LW9D	0411051-02	11/9/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
6245	1,1-Dichloroethane	LW9D	0411051-02	11/9/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
6246	1,1-Dichloroethene	LW9D	0411051-02	11/9/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
6247	1,1-Dichloropropene	LW9D	0411051-02	11/9/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
6248	1,2,3-Trichlorobenzene	LW9D	0411051-02	11/9/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
6249	1,2,3-Trichloropropane	LW9D	0411051-02	11/9/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
6250	1,2,4-Trichlorobenzene	LW9D	0411051-02	11/9/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
6251	1,2-Dibromo-3-chloropropane	LW9D	0411051-02	11/9/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
6252	1,2-Dibromoethane	LW9D	0411051-02	11/9/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
6253	1,2-Dichlorobenzene	LW9D	0411051-02	11/9/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
6254	1,2-Dichloroethane	LW9D	0411051-02	11/9/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
6255	1,2-Dichloropropane	LW9D	0411051-02	11/9/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
6256	1,3-Dichlorobenzene	LW9D	0411051-02	11/9/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
6257	1,3-Dichloropropane	LW9D	0411051-02	11/9/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
6258	1,4-Dichlorobenzene	LW9D	0411051-02	11/9/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
6259	2,2-Dichloropropane	LW9D	0411051-02	11/9/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
6260	2-Chlorotoluene	LW9D	0411051-02	11/9/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
6261	2-Hexanone	LW9D	0411051-02	11/9/04	8260	2-Hexanone	#N/A	10	U	ug/L
6262	4-Chlorotoluene	LW9D	0411051-02	11/9/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
6263	4-Methyl-2-pentanone	LW9D	0411051-02	11/9/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
6264	Acrylonitrile	LW9D	0411051-02	11/9/04	8260	Acrylonitrile	#N/A	5	U	ug/L
6265	Bromobenzene	LW9D	0411051-02	11/9/04	8260	Bromobenzene	#N/A	1	U	ug/L
6266	Bromochloromethane	LW9D	0411051-02	11/9/04	8260	Bromochloromethane	#N/A	1	U	ug/L
6267	Bromodichloromethane	LW9D	0411051-02	11/9/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
6268	Bromomethane	LW9D	0411051-02	11/9/04	8260	Bromomethane	#N/A	1	U	ug/L
6269	Carbon tetrachloride	LW9D	0411051-02	11/9/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
6270	Chlorobenzene	LW9D	0411051-02	11/9/04	8260	Chlorobenzene	#N/A	1	U	ug/L
6271	Chloroethane	LW9D	0411051-02	11/9/04	8260	Chloroethane	#N/A	1	U	ug/L
6272	Chloroform	LW9D	0411051-02	11/9/04	8260	Chloroform	#N/A	1	U	ug/L
6273	Chloromethane	LW9D	0411051-02	11/9/04	8260	Chloromethane	#N/A	1	U	ug/L
6274	cis-1,2-Dichloroethene	LW9D	0411051-02	11/9/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
6275	cis-1,3-Dichloropropene	LW9D	0411051-02	11/9/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
6276	Dibromochloromethane	LW9D	0411051-02	11/9/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
6277	Dibromomethane	LW9D	0411051-02	11/9/04	8260	Dibromomethane	#N/A	1	U	ug/L
6278	Dichlorodifluoromethane	LW9D	0411051-02	11/9/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
6279	Hexachlorobutadiene	LW9D	0411051-02	11/9/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
6280	Methylene chloride	LW9D	0411051-02	11/9/04	8260	Methylene chloride	#N/A	20	U	ug/L
6281	Tetrachloroethene	LW9D	0411051-02	11/9/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
6282	trans-1,2-Dichloroethene	LW9D	0411051-02	11/9/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
6283	trans-1,3-Dichloropropene	LW9D	0411051-02	11/9/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
6284	Trichloroethene	LW9D	0411051-02	11/9/04	8260	Trichloroethene	#N/A	1	U	ug/L
6285	Trichlorofluoromethane	LW9D	0411051-02	11/9/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
6286	Vinyl chloride	LW9D	0411051-02	11/9/04	8260	Vinyl chloride	#N/A	1	U	ug/L
6287	1,2,4-Trichlorobenzene	LW9D	0411051-02	11/9/04	8270	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
6288	1,2-Dichlorobenzene	LW9D	0411051-02	11/9/04	8270	1,2-Dichlorobenzene	#N/A	1	U	ug/L
6289	1,3-Dichlorobenzene	LW9D	0411051-02	11/9/04	8270	1,3-Dichlorobenzene	#N/A	1	U	ug/L
6290	1,4-Dichlorobenzene	LW9D	0411051-02	11/9/04	8270	1,4-Dichlorobenzene	#N/A	1	U	ug/L
6291	2,4-Dichlorophenol	LW9D	0411051-02	11/9/04	8270	2,4-Dichlorophenol	#N/A	3.01	U	ug/L
6292	2,4-Dinitrophenol	LW9D	0411051-02	11/9/04	8270	2,4-Dinitrophenol	#N/A	10	U	ug/L
6293	2,4-Dinitrotoluene	LW9D	0411051-02	11/9/04	8270	2,4-Dinitrotoluene	#N/A	5.01	U	ug/L
6294	2,6-Dinitrotoluene	LW9D	0411051-02	11/9/04	8270	2,6-Dinitrotoluene	#N/A	5.01	U	ug/L
6295	2-Chloronaphthalene	LW9D	0411051-02	11/9/04	8270	2-Chloronaphthalene	#N/A	1	U	ug/L
6296	2-Chlorophenol	LW9D	0411051-02	11/9/04	8270	2-Chlorophenol	#N/A	1	U	ug/L
6297	2-Methylphenol	LW9D	0411051-02	11/9/04	8270	2-Methylphenol	#N/A	2	U	ug/L
6298	2-Nitroaniline	LW9D	0411051-02	11/9/04	8270	2-Nitroaniline	#N/A	5.01	U	ug/L
6299	2-Nitrophenol	LW9D	0411051-02	11/9/04	8270	2-Nitrophenol	#N/A	5.01	U	ug/L
6300	3,3'-Dichlorobenzidine	LW9D	0411051-02	11/9/04	8270	3,3'-Dichlorobenzidine	#N/A	5.01	U	ug/L
6301	3-Nitroaniline	LW9D	0411051-02	11/9/04	8270	3-Nitroaniline	#N/A	6.01	U	ug/L
6302	4,6-Dinitro-2-methylphenol	LW9D	0411051-02	11/9/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10	U	ug/L
6303	4-Bromophenyl phenyl ether	LW9D	0411051-02	11/9/04	8270	4-Bromophenyl phenyl ether	#N/A	1	U	ug/L
6304	4-Chloro-3-methylphenol	LW9D	0411051-02	11/9/04	8270	4-Chloro-3-methylphenol	#N/A	2	U	ug/L
6305	4-Chloroaniline	LW9D	0411051-02	11/9/04	8270	4-Chloroaniline	#N/A	3.01	U	ug/L
6306	4-Chlorophenyl phenyl ether	LW9D	0411051-02	11/9/04	8270	4-Chlorophenyl phenyl ether	#N/A	1	U	ug/L
6307	4-Nitroaniline	LW9D	0411051-02	11/9/04	8270	4-Nitroaniline	#N/A	5.01	U	ug/L
6308	4-Nitrophenol	LW9D	0411051-02	11/9/04	8270	4-Nitrophenol	#N/A	5.01	U	ug/L
6309	Benz(a)anthracene	LW9D	0411051-02	11/9/04	8270	Benz(a)anthracene	#N/A	1	U	ug/L
6310	Benzo(a)pyrene	LW9D	0411051-02	11/9/04	8270	Benzo(a)pyrene	#N/A	1	U	ug/L
6311	Benzo(b)fluoranthene	LW9D	0411051-02	11/9/04	8270	Benzo(b)fluoranthene	#N/A	1	U	ug/L
6312	Benzo(g,h,i)perylene	LW9D	0411051-02	11/9/04	8270	Benzo(g,h,i)perylene	#N/A	1	U	ug/L
6313	Benzo(k)fluoranthene	LW9D	0411051-02	11/9/04	8270	Benzo(k)fluoranthene	#N/A	1	U	ug/L
6314	Benzyl Alcohol	LW9D	0411051-02	11/9/04	8270	Benzyl Alcohol	#N/A	5.01	U	ug/L
6315	Bis(2-chloroethoxy)methane	LW9D	0411051-02	11/9/04	8270	Bis(2-chloroethoxy)methane	#N/A	1	U	ug/L
6316	Bis(2-chloroethyl)ether	LW9D	0411051-02	11/9/04	8270	Bis(2-chloroethyl)ether	#N/A	2	U	ug/L
6317	Bis(2-chloroisopropyl)ether	LW9D	0411051-02	11/9/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1	U	ug/L
6318	Butyl benzyl phthalate	LW9D	0411051-02	11/9/04	8270	Butyl benzyl phthalate	#N/A	1	U	ug/L
6319	Carbazole	LW9D	0411051-02	11/9/04	8270	Carbazole	#N/A	1	U	ug/L
6320	Chrysene	LW9D	0411051-02	11/9/04	8270	Chrysene	#N/A	1	U	ug/L
6321	Dibenz(a,h)anthracene	LW9D	0411051-02	11/9/04	8270	Dibenz(a,h)anthracene	#N/A	1	U	ug/L
6322	Diethyl phthalate	LW9D	0411051-02	11/9/04	8270	Diethyl phthalate	#N/A	1	U	ug/L
6323	Dimethyl phthalate	LW9D	0411051-02	11/9/04	8270	Dimethyl phthalate	#N/A	1	U	ug/L
6324	Di-n-butyl phthalate	LW9D	0411051-02	11/9/04	8270	Di-n-butyl phthalate	#N/A	1	U	ug/L
6325	Di-n-octyl phthalate	LW9D	0411051-02	11/9/04	8270	Di-n-octyl phthalate	#N/A	1	U	ug/L
6326	Fluoranthene	LW9D	0411051-02	11/9/04	8270	Fluoranthene	#N/A	1	U	ug/L
6327	Hexachlorobenzene	LW9D	0411051-02	11/9/04	8270	Hexachlorobenzene	#N/A	1	U	ug/L
6328	Hexachlorobutadiene	LW9D	0411051-02	11/9/04	8270	Hexachlorobutadiene	#N/A	2	U	ug/L
6329	Hexachlorocyclopentadiene	LW9D	0411051-02	11/9/04	8270	Hexachlorocyclopentadiene	#N/A	5.01	U	ug/L
6330	Hexachloroethane	LW9D	0411051-02	11/9/04	8270	Hexachloroethane	#N/A	2	U	ug/L
6331	Indeno(1,2,3-cd)pyrene	LW9D	0411051-02	11/9/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1	U	ug/L
6332	Nitrobenzene	LW9D	0411051-02	11/9/04	8270	Nitrobenzene	#N/A	1	U	ug/L
6333	N-Nitrosodimethylamine	LW9D	0411051-02	11/9/04	8270	N-Nitrosodimethylamine	#N/A	1	U	ug/L
6334	N-Nitrosodi-n-propylamine	LW9D	0411051-02	11/9/04	8270	N-Nitrosodi-n-propylamine	#N/A	2	U	ug/L
6335	N-Nitrosodiphenylamine	LW9D	0411051-02	11/9/04	8270	N-Nitrosodiphenylamine	#N/A	1	U	ug/L
6336	Phenanthrene	LW9D	0411051-02	11/9/04	8270	Phenanthrene	#N/A	1	U	ug/L
6337	Pyrene	LW9D	0411051-02	11/9/04	8270	Pyrene	#N/A	1	U	ug/L
6338	Pyridine	LW9D	0411051-02	11/9/04	8270	Pyridine	#N/A	5.01	U	ug/L
6339	Turbidity	LW9D	0411051-02	11/9/04	FIELD	Turbidity	#N/A	0		ntu
6340	Pentachlorophenol	OX2S	0411066-10	11/11/04	8270	Pentachlorophenol	3	**727**		ug/L
6341	Phenol	OX2S	0411066-10	11/11/04	8270	Phenol	13	1.99	U	ug/L
6342	3-&4-Methylphenol	OX2S	0411066-10	11/11/04	8270	3-&4-Methylphenol	14	9.94	U	ug/L
6343	Isophorone	OX2S	0411066-10	11/11/04	8270	Isophorone	15	0.994	U	ug/L
6344	2,4-Dimethylphenol	OX2S	0411066-10	11/11/04	8270	2,4-Dimethylphenol	16	2.98	U	ug/L
6345	Benzoic Acid	OX2S	0411066-10	11/11/04	8270	Benzoic Acid	17	19.9	U	ug/L
6346	Naphthalene	OX2S	0411066-10	11/11/04	8270	Naphthalene	18	**10.4**		ug/L
6347	2-Methylnaphthalene	OX2S	0411066-10	11/11/04	8270	2-Methylnaphthalene	19	**8.69**		ug/L
6348	2,4,6-Trichlorophenol	OX2S	0411066-10	11/11/04	8270	2,4,6-Trichlorophenol	20	4.97	U	ug/L
6349	2,4,5-Trichlorophenol	OX2S	0411066-10	11/11/04	8270	2,4,5-Trichlorophenol	21	4.97	U	ug/L
6350	Acenaphthene	OX2S	0411066-10	11/11/04	8270	Acenaphthene	22	0.994	U	ug/L
6351	Dibenzofuran	OX2S	0411066-10	11/11/04	8270	Dibenzofuran	23	0.994	U	ug/L

	A	B	C	D	E	F	G	H	I	J
6352	Fluorene	OX2S	0411066-10	11/11/04	8270	Fluorene	24	0.994	U	ug/L
6353	Bis(2-ethylhexyl)phthalate	OX2S	0411066-10	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	0.994	U	ug/L
6354	Acetone	OX2S	0411066-10	11/11/04	8260	Acetone	30	50	U	ug/L
6355	Carbon disulfide	OX2S	0411066-10	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
6356	2-Butanone	OX2S	0411066-10	11/11/04	8260	2-Butanone	32	10	U	ug/L
6357	Benzene	OX2S	0411066-10	11/11/04	8260	Benzene	33	**3.49**		ug/L
6358	Bromoform	OX2S	0411066-10	11/11/04	8260	Bromoform	34	1	U	ug/L
6359	Toluene	OX2S	0411066-10	11/11/04	8260	Toluene	35	1	U	ug/L
6360	Ethylbenzene	OX2S	0411066-10	11/11/04	8260	Ethylbenzene	36	**48.9**		ug/L
6361	Styrene	OX2S	0411066-10	11/11/04	8260	Styrene	37	1	U	ug/L
6362	m,p-Xylene	OX2S	0411066-10	11/11/04	8260	m,p-Xylene	38	**62.7**		ug/L
6363	o-Xylene	OX2S	0411066-10	11/11/04	8260	o-Xylene	39	**99.2**		ug/L
6364	1,3,5-Trimethylbenzene	OX2S	0411066-10	11/11/04	8260	1,3,5-Trimethylbenzene	40	**78.8**		ug/L
6365	1,2,4-Trimethylbenzene	OX2S	0411066-10	11/11/04	8260	1,2,4-Trimethylbenzene	41	**320**		ug/L
6366	Isopropylbenzene	OX2S	0411066-10	11/11/04	8260	Isopropylbenzene	42	**32.8**		ug/L
6367	n-Propylbenzene	OX2S	0411066-10	11/11/04	8260	n-Propylbenzene	43	**46**		ug/L
6368	tert-Butylbenzene	OX2S	0411066-10	11/11/04	8260	tert-Butylbenzene	44	**2.74**		ug/L
6369	sec-Butylbenzene	OX2S	0411066-10	11/11/04	8260	sec-Butylbenzene	45	**16**		ug/L
6370	4-Isopropyltoluene	OX2S	0411066-10	11/11/04	8260	4-Isopropyltoluene	46	**14.6**		ug/L
6371	n-Butylbenzene	OX2S	0411066-10	11/11/04	8260	n-Butylbenzene	47	**11.2**		ug/L
6372	Naphthalene	OX2S	0411066-10	11/11/04	8260	Naphthalene	48	**23.3**		ug/L
6373	Methyl tert-butyl ether	OX2S	0411066-10	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
6374	Arsenic	OX2S	0411066-10	11/11/04	6020	Arsenic	59	**0.00915**		ug/L
6375	Chromium	OX2S	0411066-10	11/11/04	6010	Chromium	60	**0.0191**		mg/L
6376	Copper	OX2S	0411066-10	11/11/04	6010	Copper	61	0.01	U	mg/L
6377	Lead	OX2S	0411066-10	11/11/04	6020	Lead	62	**0.0401**		ug/L
6378	Nickel	OX2S	0411066-10	11/11/04	6010	Nickel	63	0.005	U	mg/L
6379	Zinc	OX2S	0411066-10	11/11/04	6010	Zinc	64	**0.0299**		mg/L
6380	Total Dissolved Solids	OX2S	0411066-10	11/11/04	1601	Total Dissolved Solids	74	**443**		mg/L
6381	Chloride	OX2S	0411066-10	11/11/04	9056	Chloride	75	**4.69**		mg/L
6382	pH	OX2S	0411066-10	11/11/04	FIELD	pH	82	6.62		s.u.
6383	Temperature	OX2S	0411066-10	11/11/04	FIELD	Temperature	83	15.2		c
6384	Conductivity	OX2S	0411066-10	11/11/04	FIELD	Conductivity	84	487		us
6385	Dissolved oxygen	OX2S	0411066-10	11/11/04	FIELD	Dissolved oxygen	85	1.34		mg/l
6386	2,3,7,8-TCDF	OX2S	E0401188-002	11/11/04	8290	2,3,7,8-TCDF	89	**0.011663**	J	ng/L
6387	Total TCDF	OX2S	E0401188-002	11/11/04	8290	Total TCDF	90	**0.028916**		ng/L
6388	2,3,7,8-TCDD	OX2S	E0401188-002	11/11/04	8290	2,3,7,8-TCDD	91	0.000465	UJ	ng/L
6389	Total TCDD	OX2S	E0401188-002	11/11/04	8290	Total TCDD	92	0.000465	U	ng/L
6390	1,2,3,7,8-PeCDF	OX2S	E0401188-002	11/11/04	8290	1,2,3,7,8-PeCDF	93	**0.028919**	J	ng/L
6391	2,3,4,7,8-PeCDF	OX2S	E0401188-002	11/11/04	8290	2,3,4,7,8-PeCDF	94	**0.022008**	J	ng/L
6392	Total PeCDF	OX2S	E0401188-002	11/11/04	8290	Total PeCDF	95	**0.589224**		ng/L
6393	1,2,3,7,8-PeCDD	OX2S	E0401188-002	11/11/04	8290	1,2,3,7,8-PeCDD	96	**0.003825**	J	ng/L
6394	Total PeCDD	OX2S	E0401188-002	11/11/04	8290	Total PeCDD	97	**0.006169**		ng/L
6395	1,2,3,4,7,8-HxCDF	OX2S	E0401188-002	11/11/04	8290	1,2,3,4,7,8-HxCDF	98	**0.129685**		ng/L
6396	1,2,3,6,7,8-HxCDF	OX2S	E0401188-002	11/11/04	8290	1,2,3,6,7,8-HxCDF	99	**0.060882**		ng/L
6397	2,3,4,6,7,8-HxCDF	OX2S	E0401188-002	11/11/04	8290	2,3,4,6,7,8-HxCDF	100	**0.086431**		ng/L
6398	1,2,3,7,8,9-HxCDF	OX2S	E0401188-002	11/11/04	8290	1,2,3,7,8,9-HxCDF	101	0.003279	U	ng/L
6399	Total HxCDF	OX2S	E0401188-002	11/11/04	8290	Total HxCDF	102	**3.438667**		ng/L
6400	1,2,3,4,7,8-HxCDD	OX2S	E0401188-002	11/11/04	8290	1,2,3,4,7,8-HxCDD	103	0.000658	U	ng/L
6401	1,2,3,6,7,8-HxCDD	OX2S	E0401188-002	11/11/04	8290	1,2,3,6,7,8-HxCDD	104	**0.672776**		ng/L
6402	1,2,3,7,8,9-HxCDD	OX2S	E0401188-002	11/11/04	8290	1,2,3,7,8,9-HxCDD	105	0.055833	U	ng/L
6403	Total HxCDD	OX2S	E0401188-002	11/11/04	8290	Total HxCDD	106	**1.508675**		ng/L
6404	1,2,3,4,6,7,8-HpCDF	OX2S	E0401188-002	11/11/04	8290	1,2,3,4,6,7,8-HpCDF	107	**3.607867**		ng/L
6405	1,2,3,4,7,8,9-HpCDF	OX2S	E0401188-002	11/11/04	8290	1,2,3,4,7,8,9-HpCDF	108	**0.180702**		ng/L
6406	Total HpCDF	OX2S	E0401188-002	11/11/04	8290	Total HpCDF	109	**17.465984**		ng/L
6407	1,2,3,4,6,7,8-HpCDD	OX2S	E0401188-002	11/11/04	8290	1,2,3,4,6,7,8-HpCDD	110	**16.086098**	J	ng/L
6408	Total HpCDD	OX2S	E0401188-002	11/11/04	8290	Total HpCDD	111	**35.962568**		ng/L
6409	OCDF	OX2S	E0401188-002	11/11/04	8290	OCDF	112	**18.415892**	J	ng/L
6410	OCDD	OX2S	E0401188-002	11/11/04	8290	OCDD	113	**172.764658**	J	ng/L
6411	Selenium	OX2S	0411066-10	11/11/04	6010	Selenium	#N/A	0.02	U	mg/L
6412	1,1,1,2-Tetrachloroethane	OX2S	0411066-10	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
6413	1,1,1-Trichloroethane	OX2S	0411066-10	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
6414	1,1,2,2-Tetrachloroethane	OX2S	0411066-10	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
6415	1,1,2-Trichloroethane	OX2S	0411066-10	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
6416	1,1-Dichloroethane	OX2S	0411066-10	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
6417	1,1-Dichloroethene	OX2S	0411066-10	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
6418	1,1-Dichloropropene	OX2S	0411066-10	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
6419	1,2,3-Trichlorobenzene	OX2S	0411066-10	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
6420	1,2,3-Trichloropropane	OX2S	0411066-10	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
6421	1,2,4-Trichlorobenzene	OX2S	0411066-10	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
6422	1,2-Dibromo-3-chloropropane	OX2S	0411066-10	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
6423	1,2-Dibromoethane	OX2S	0411066-10	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
6424	1,2-Dichlorobenzene	OX2S	0411066-10	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
6425	1,2-Dichloroethane	OX2S	0411066-10	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
6426	1,2-Dichloropropane	OX2S	0411066-10	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
6427	1,3-Dichlorobenzene	OX2S	0411066-10	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
6428	1,3-Dichloropropane	OX2S	0411066-10	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
6429	1,4-Dichlorobenzene	OX2S	0411066-10	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
6430	2,2-Dichloropropane	OX2S	0411066-10	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
6431	2-Chlorotoluene	OX2S	0411066-10	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
6432	2-Hexanone	OX2S	0411066-10	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
6433	4-Chlorotoluene	OX2S	0411066-10	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
6434	4-Methyl-2-pentanone	OX2S	0411066-10	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
6435	Acrylonitrile	OX2S	0411066-10	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
6436	Bromobenzene	OX2S	0411066-10	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
6437	Bromochloromethane	OX2S	0411066-10	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
6438	Bromodichloromethane	OX2S	0411066-10	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
6439	Bromomethane	OX2S	0411066-10	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
6440	Carbon tetrachloride	OX2S	0411066-10	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
6441	Chlorobenzene	OX2S	0411066-10	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
6442	Chloroethane	OX2S	0411066-10	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
6443	Chloroform	OX2S	0411066-10	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
6444	Chloromethane	OX2S	0411066-10	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
6445	cis-1,2-Dichloroethene	OX2S	0411066-10	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
6446	cis-1,3-Dichloropropene	OX2S	0411066-10	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
6447	Dibromochloromethane	OX2S	0411066-10	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
6448	Dibromomethane	OX2S	0411066-10	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
6449	Dichlorodifluoromethane	OX2S	0411066-10	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
6450	Hexachlorobutadiene	OX2S	0411066-10	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
6451	Methylene chloride	OX2S	0411066-10	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
6452	Tetrachloroethene	OX2S	0411066-10	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
6453	trans-1,2-Dichloroethene	OX2S	0411066-10	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
6454	trans-1,3-Dichloropropene	OX2S	0411066-10	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
6455	Trichloroethene	OX2S	0411066-10	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
6456	Trichlorofluoromethane	OX2S	0411066-10	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
6457	Vinyl chloride	OX2S	0411066-10	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
6458	1,2,4-Trichlorobenzene	OX2S	0411066-10	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	0.994	U	ug/L
6459	1,2-Dichlorobenzene	OX2S	0411066-10	11/11/04	8270	1,2-Dichlorobenzene	#N/A	0.994	U	ug/L
6460	1,3-Dichlorobenzene	OX2S	0411066-10	11/11/04	8270	1,3-Dichlorobenzene	#N/A	0.994	U	ug/L
6461	1,4-Dichlorobenzene	OX2S	0411066-10	11/11/04	8270	1,4-Dichlorobenzene	#N/A	0.994	U	ug/L
6462	2,3,4,6-Tetrachlorophenol	OX2S	0411066-10	11/11/04	8270	2,3,4,6-Tetrachlorophenol	#N/A	**55.9**		ug/L
6463	2,3,5,6-Tetrachlorophenol	OX2S	0411066-10	11/11/04	8270	2,3,5,6-Tetrachlorophenol	#N/A	**311**		ug/L
6464	2,4-Dichlorophenol	OX2S	0411066-10	11/11/04	8270	2,4-Dichlorophenol	#N/A	2.98	U	ug/L
6465	2,4-Dinitrophenol	OX2S	0411066-10	11/11/04	8270	2,4-Dinitrophenol	#N/A	9.94	U	ug/L
6466	2,4-Dinitrotoluene	OX2S	0411066-10	11/11/04	8270	2,4-Dinitrotoluene	#N/A	4.97	U	ug/L
6467	2,6-Dinitrotoluene	OX2S	0411066-10	11/11/04	8270	2,6-Dinitrotoluene	#N/A	4.97	U	ug/L
6468	2-Chloronaphthalene	OX2S	0411066-10	11/11/04	8270	2-Chloronaphthalene	#N/A	0.994	U	ug/L
6469	2-Chlorophenol	OX2S	0411066-10	11/11/04	8270	2-Chlorophenol	#N/A	0.994	U	ug/L
6470	2-Methylphenol	OX2S	0411066-10	11/11/04	8270	2-Methylphenol	#N/A	1.99	U	ug/L
6471	2-Nitroaniline	OX2S	0411066-10	11/11/04	8270	2-Nitroaniline	#N/A	4.97	U	ug/L
6472	2-Nitrophenol	OX2S	0411066-10	11/11/04	8270	2-Nitrophenol	#N/A	4.97	U	ug/L
6473	3,3'-Dichlorobenzidine	OX2S	0411066-10	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	4.97	U	ug/L
6474	3-Nitroaniline	OX2S	0411066-10	11/11/04	8270	3-Nitroaniline	#N/A	5.96	U	ug/L
6475	4,6-Dinitro-2-methylphenol	OX2S	0411066-10	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.94	U	ug/L
6476	4-Bromophenyl phenyl ether	OX2S	0411066-10	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	0.994	U	ug/L
6477	4-Chloro-3-methylphenol	OX2S	0411066-10	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	1.99	U	ug/L
6478	4-Chloroaniline	OX2S	0411066-10	11/11/04	8270	4-Chloroaniline	#N/A	2.98	U	ug/L
6479	4-Chlorophenyl phenyl ether	OX2S	0411066-10	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.994	U	ug/L
6480	4-Nitroaniline	OX2S	0411066-10	11/11/04	8270	4-Nitroaniline	#N/A	4.97	U	ug/L
6481	4-Nitrophenol	OX2S	0411066-10	11/11/04	8270	4-Nitrophenol	#N/A	4.97	U	ug/L
6482	Benz(a)anthracene	OX2S	0411066-10	11/11/04	8270	Benz(a)anthracene	#N/A	0.994	U	ug/L
6483	Benzo(a)pyrene	OX2S	0411066-10	11/11/04	8270	Benzo(a)pyrene	#N/A	0.994	U	ug/L
6484	Benzo(b)fluoranthene	OX2S	0411066-10	11/11/04	8270	Benzo(b)fluoranthene	#N/A	0.994	U	ug/L
6485	Benzo(g,h,i)perylene	OX2S	0411066-10	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	0.994	U	ug/L
6486	Benzo(k)fluoranthene	OX2S	0411066-10	11/11/04	8270	Benzo(k)fluoranthene	#N/A	0.994	U	ug/L
6487	Benzyl Alcohol	OX2S	0411066-10	11/11/04	8270	Benzyl Alcohol	#N/A	4.97	U	ug/L
6488	Bis(2-chloroethoxy)methane	OX2S	0411066-10	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.994	U	ug/L
6489	Bis(2-chloroethyl)ether	OX2S	0411066-10	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	1.99	U	ug/L
6490	Bis(2-chloroisopropyl)ether	OX2S	0411066-10	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.994	U	ug/L
6491	Butyl benzyl phthalate	OX2S	0411066-10	11/11/04	8270	Butyl benzyl phthalate	#N/A	0.994	U	ug/L
6492	Carbazole	OX2S	0411066-10	11/11/04	8270	Carbazole	#N/A	0.994	U	ug/L
6493	Chrysene	OX2S	0411066-10	11/11/04	8270	Chrysene	#N/A	0.994	U	ug/L
6494	Dibenz(a,h)anthracene	OX2S	0411066-10	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	0.994	U	ug/L
6495	Diethyl phthalate	OX2S	0411066-10	11/11/04	8270	Diethyl phthalate	#N/A	0.994	U	ug/L
6496	Dimethyl phthalate	OX2S	0411066-10	11/11/04	8270	Dimethyl phthalate	#N/A	0.994	U	ug/L
6497	Di-n-butyl phthalate	OX2S	0411066-10	11/11/04	8270	Di-n-butyl phthalate	#N/A	0.994	U	ug/L

	A	B	C	D	E	F	G	H	I	J
6498	Di-n-octyl phthalate	OX2S	0411066-10	11/11/04	8270	Di-n-octyl phthalate	#N/A	0.994	U	ug/L
6499	Fluoranthene	OX2S	0411066-10	11/11/04	8270	Fluoranthene	#N/A	0.994	U	ug/L
6500	Hexachlorobenzene	OX2S	0411066-10	11/11/04	8270	Hexachlorobenzene	#N/A	0.994	U	ug/L
6501	Hexachlorobutadiene	OX2S	0411066-10	11/11/04	8270	Hexachlorobutadiene	#N/A	1.99	U	ug/L
6502	Hexachlorocyclopentadiene	OX2S	0411066-10	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	4.97	U	ug/L
6503	Hexachloroethane	OX2S	0411066-10	11/11/04	8270	Hexachloroethane	#N/A	1.99	U	ug/L
6504	Indeno(1,2,3-cd)pyrene	OX2S	0411066-10	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.994	U	ug/L
6505	Nitrobenzene	OX2S	0411066-10	11/11/04	8270	Nitrobenzene	#N/A	0.994	U	ug/L
6506	N-Nitrosodimethylamine	OX2S	0411066-10	11/11/04	8270	N-Nitrosodimethylamine	#N/A	0.994	U	ug/L
6507	N-Nitrosodi-n-propylamine	OX2S	0411066-10	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.99	U	ug/L
6508	N-Nitrosodiphenylamine	OX2S	0411066-10	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	0.994	U	ug/L
6509	Phenanthrene	OX2S	0411066-10	11/11/04	8270	Phenanthrene	#N/A	0.994	U	ug/L
6510	Pyrene	OX2S	0411066-10	11/11/04	8270	Pyrene	#N/A	0.994	U	ug/L
6511	Pyridine	OX2S	0411066-10	11/11/04	8270	Pyridine	#N/A	4.97	U	ug/L
6512	Total TEQ	OX2S	E0401188-002	11/11/04	8290	Total TEQ	#N/A	**0.57142**		ng/L
6513	Redox	OX2S	0411066-10	11/11/04	FIELD	Redox	#N/A	6.4		mV
6514	Turbidity	OX2S	0411066-10	11/11/04	FIELD	Turbidity	#N/A	0		ntu
6515	Ferrous Iron	OX2S	0411066-10	11/11/04	SM3500 FeD	Ferrous Iron	#N/A	**34.7**		mg/L
6516	Pentachlorophenol	OX2S-Dup	0411066-02	11/11/04	8270	Pentachlorophenol	3	**1150**		ug/L
6517	Phenol	OX2S-Dup	0411066-02	11/11/04	8270	Phenol	13	2	U	ug/L
6518	3-&4-Methylphenol	OX2S-Dup	0411066-02	11/11/04	8270	3-&4-Methylphenol	14	10	U	ug/L
6519	Isophorone	OX2S-Dup	0411066-02	11/11/04	8270	Isophorone	15	1	U	ug/L
6520	2,4-Dimethylphenol	OX2S-Dup	0411066-02	11/11/04	8270	2,4-Dimethylphenol	16	3	U	ug/L
6521	Benzoic Acid	OX2S-Dup	0411066-02	11/11/04	8270	Benzoic Acid	17	20	U	ug/L
6522	Naphthalene	OX2S-Dup	0411066-02	11/11/04	8270	Naphthalene	18	**22.2**		ug/L
6523	2-Methylnaphthalene	OX2S-Dup	0411066-02	11/11/04	8270	2-Methylnaphthalene	19	**23.9**		ug/L
6524	2,4,6-Trichlorophenol	OX2S-Dup	0411066-02	11/11/04	8270	2,4,6-Trichlorophenol	20	5	U	ug/L
6525	2,4,5-Trichlorophenol	OX2S-Dup	0411066-02	11/11/04	8270	2,4,5-Trichlorophenol	21	5	U	ug/L
6526	Acenaphthene	OX2S-Dup	0411066-02	11/11/04	8270	Acenaphthene	22	1	U	ug/L
6527	Dibenzofuran	OX2S-Dup	0411066-02	11/11/04	8270	Dibenzofuran	23	1	U	ug/L
6528	Fluorene	OX2S-Dup	0411066-02	11/11/04	8270	Fluorene	24	1	U	ug/L
6529	Bis(2-ethylhexyl)phthalate	OX2S-Dup	0411066-02	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	1	U	ug/L
6530	Acetone	OX2S-Dup	0411066-02	11/11/04	8260	Acetone	30	50	U	ug/L
6531	Carbon disulfide	OX2S-Dup	0411066-02	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
6532	2-Butanone	OX2S-Dup	0411066-02	11/11/04	8260	2-Butanone	32	10	U	ug/L
6533	Benzene	OX2S-Dup	0411066-02	11/11/04	8260	Benzene	33	**3.67**		ug/L
6534	Bromoform	OX2S-Dup	0411066-02	11/11/04	8260	Bromoform	34	1	U	ug/L
6535	Toluene	OX2S-Dup	0411066-02	11/11/04	8260	Toluene	35	1	U	ug/L
6536	Ethylbenzene	OX2S-Dup	0411066-02	11/11/04	8260	Ethylbenzene	36	**50**		ug/L
6537	Styrene	OX2S-Dup	0411066-02	11/11/04	8260	Styrene	37	1	U	ug/L
6538	m,p-Xylene	OX2S-Dup	0411066-02	11/11/04	8260	m,p-Xylene	38	**61.5**		ug/L
6539	o-Xylene	OX2S-Dup	0411066-02	11/11/04	8260	o-Xylene	39	**110**		ug/L
6540	1,3,5-Trimethylbenzene	OX2S-Dup	0411066-02	11/11/04	8260	1,3,5-Trimethylbenzene	40	**70.1**		ug/L
6541	1,2,4-Trimethylbenzene	OX2S-Dup	0411066-02	11/11/04	8260	1,2,4-Trimethylbenzene	41	**212**		ug/L
6542	Isopropylbenzene	OX2S-Dup	0411066-02	11/11/04	8260	Isopropylbenzene	42	**29.9**		ug/L
6543	n-Propylbenzene	OX2S-Dup	0411066-02	11/11/04	8260	n-Propylbenzene	43	**39.4**		ug/L
6544	tert-Butylbenzene	OX2S-Dup	0411066-02	11/11/04	8260	tert-Butylbenzene	44	**2.22**		ug/L
6545	sec-Butylbenzene	OX2S-Dup	0411066-02	11/11/04	8260	sec-Butylbenzene	45	**13.4**		ug/L
6546	4-Isopropyltoluene	OX2S-Dup	0411066-02	11/11/04	8260	4-Isopropyltoluene	46	**11.1**		ug/L
6547	n-Butylbenzene	OX2S-Dup	0411066-02	11/11/04	8260	n-Butylbenzene	47	**8.71**		ug/L
6548	Naphthalene	OX2S-Dup	0411066-02	11/11/04	8260	Naphthalene	48	**25.2**		ug/L
6549	Methyl tert-butyl ether	OX2S-Dup	0411066-02	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
6550	Arsenic	OX2S-Dup	0411066-02	11/11/04	6020	Arsenic	59	**0.00768**		ug/L
6551	Chromium	OX2S-Dup	0411066-02	11/11/04	6010	Chromium	60	**0.0141**		mg/L
6552	Copper	OX2S-Dup	0411066-02	11/11/04	6010	Copper	61	0.01	U	mg/L
6553	Lead	OX2S-Dup	0411066-02	11/11/04	6020	Lead	62	**0.0214**		ug/L
6554	Nickel	OX2S-Dup	0411066-02	11/11/04	6010	Nickel	63	0.005	U	mg/L
6555	Zinc	OX2S-Dup	0411066-02	11/11/04	6010	Zinc	64	**0.0247**		mg/L
6556	Total Dissolved Solids	OX2S-Dup	0411066-02	11/11/04	1601	Total Dissolved Solids	74	**428**		mg/L
6557	Chloride	OX2S-Dup	0411066-02	11/11/04	9056	Chloride	75	**4.56**		mg/L
6558	pH	OX2S-Dup	0411066-02	11/11/04	FIELD	pH	82	6.61		s.u.
6559	Temperature	OX2S-Dup	0411066-02	11/11/04	FIELD	Temperature	83	15.1		c
6560	Conductivity	OX2S-Dup	0411066-02	11/11/04	FIELD	Conductivity	84	487		us
6561	Dissolved oxygen	OX2S-Dup	0411066-02	11/11/04	FIELD	Dissolved oxygen	85	1.34		mg/l
6562	Selenium	OX2S-Dup	0411066-02	11/11/04	6010	Selenium	#N/A	0.02	U	mg/L
6563	1,1,1,2-Tetrachloroethane	OX2S-Dup	0411066-02	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
6564	1,1,1-Trichloroethane	OX2S-Dup	0411066-02	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
6565	1,1,2,2-Tetrachloroethane	OX2S-Dup	0411066-02	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
6566	1,1,2-Trichloroethane	OX2S-Dup	0411066-02	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
6567	1,1-Dichloroethane	OX2S-Dup	0411066-02	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
6568	1,1-Dichloroethene	OX2S-Dup	0411066-02	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
6569	1,1-Dichloropropene	OX2S-Dup	0411066-02	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
6570	1,2,3-Trichlorobenzene	OX2S-Dup	0411066-02	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
6571	1,2,3-Trichloropropane	OX2S-Dup	0411066-02	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
6572	1,2,4-Trichlorobenzene	OX2S-Dup	0411066-02	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
6573	1,2-Dibromo-3-chloropropane	OX2S-Dup	0411066-02	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
6574	1,2-Dibromoethane	OX2S-Dup	0411066-02	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
6575	1,2-Dichlorobenzene	OX2S-Dup	0411066-02	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
6576	1,2-Dichloroethane	OX2S-Dup	0411066-02	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
6577	1,2-Dichloropropane	OX2S-Dup	0411066-02	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
6578	1,3-Dichlorobenzene	OX2S-Dup	0411066-02	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
6579	1,3-Dichloropropane	OX2S-Dup	0411066-02	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
6580	1,4-Dichlorobenzene	OX2S-Dup	0411066-02	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
6581	2,2-Dichloropropane	OX2S-Dup	0411066-02	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
6582	2-Chlorotoluene	OX2S-Dup	0411066-02	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
6583	2-Hexanone	OX2S-Dup	0411066-02	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
6584	4-Chlorotoluene	OX2S-Dup	0411066-02	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
6585	4-Methyl-2-pentanone	OX2S-Dup	0411066-02	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
6586	Acrylonitrile	OX2S-Dup	0411066-02	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
6587	Bromobenzene	OX2S-Dup	0411066-02	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
6588	Bromochloromethane	OX2S-Dup	0411066-02	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
6589	Bromodichloromethane	OX2S-Dup	0411066-02	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
6590	Bromomethane	OX2S-Dup	0411066-02	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
6591	Carbon tetrachloride	OX2S-Dup	0411066-02	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
6592	Chlorobenzene	OX2S-Dup	0411066-02	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
6593	Chloroethane	OX2S-Dup	0411066-02	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
6594	Chloroform	OX2S-Dup	0411066-02	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
6595	Chloromethane	OX2S-Dup	0411066-02	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
6596	cis-1,2-Dichloroethene	OX2S-Dup	0411066-02	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
6597	cis-1,3-Dichloropropene	OX2S-Dup	0411066-02	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
6598	Dibromochloromethane	OX2S-Dup	0411066-02	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
6599	Dibromomethane	OX2S-Dup	0411066-02	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
6600	Dichlorodifluoromethane	OX2S-Dup	0411066-02	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
6601	Hexachlorobutadiene	OX2S-Dup	0411066-02	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
6602	Methylene chloride	OX2S-Dup	0411066-02	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
6603	Tetrachloroethene	OX2S-Dup	0411066-02	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
6604	trans-1,2-Dichloroethene	OX2S-Dup	0411066-02	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
6605	trans-1,3-Dichloropropene	OX2S-Dup	0411066-02	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
6606	Trichloroethene	OX2S-Dup	0411066-02	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
6607	Trichlorofluoromethane	OX2S-Dup	0411066-02	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
6608	Vinyl chloride	OX2S-Dup	0411066-02	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
6609	1,2,4-Trichlorobenzene	OX2S-Dup	0411066-02	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
6610	1,2-Dichlorobenzene	OX2S-Dup	0411066-02	11/11/04	8270	1,2-Dichlorobenzene	#N/A	1	U	ug/L
6611	1,3-Dichlorobenzene	OX2S-Dup	0411066-02	11/11/04	8270	1,3-Dichlorobenzene	#N/A	1	U	ug/L
6612	1,4-Dichlorobenzene	OX2S-Dup	0411066-02	11/11/04	8270	1,4-Dichlorobenzene	#N/A	1	U	ug/L
6613	2,3,4,6-Tetrachlorophenol	OX2S-Dup	0411066-02	11/11/04	8270	2,3,4,6-Tetrachlorophenol	#N/A	**74.5**		ug/L
6614	2,3,5,6-Tetrachlorophenol	OX2S-Dup	0411066-02	11/11/04	8270	2,3,5,6-Tetrachlorophenol	#N/A	**439**		ug/L
6615	2,4-Dichlorophenol	OX2S-Dup	0411066-02	11/11/04	8270	2,4-Dichlorophenol	#N/A	3	U	ug/L
6616	2,4-Dinitrophenol	OX2S-Dup	0411066-02	11/11/04	8270	2,4-Dinitrophenol	#N/A	10	U	ug/L
6617	2,4-Dinitrotoluene	OX2S-Dup	0411066-02	11/11/04	8270	2,4-Dinitrotoluene	#N/A	5	U	ug/L
6618	2,6-Dinitrotoluene	OX2S-Dup	0411066-02	11/11/04	8270	2,6-Dinitrotoluene	#N/A	5	U	ug/L
6619	2-Chloronaphthalene	OX2S-Dup	0411066-02	11/11/04	8270	2-Chloronaphthalene	#N/A	1	U	ug/L
6620	2-Chlorophenol	OX2S-Dup	0411066-02	11/11/04	8270	2-Chlorophenol	#N/A	1	U	ug/L
6621	2-Methylphenol	OX2S-Dup	0411066-02	11/11/04	8270	2-Methylphenol	#N/A	2	U	ug/L
6622	2-Nitroaniline	OX2S-Dup	0411066-02	11/11/04	8270	2-Nitroaniline	#N/A	5	U	ug/L
6623	2-Nitrophenol	OX2S-Dup	0411066-02	11/11/04	8270	2-Nitrophenol	#N/A	5	U	ug/L
6624	3,3'-Dichlorobenzidine	OX2S-Dup	0411066-02	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	5	U	ug/L
6625	3-Nitroaniline	OX2S-Dup	0411066-02	11/11/04	8270	3-Nitroaniline	#N/A	6	U	ug/L
6626	4,6-Dinitro-2-methylphenol	OX2S-Dup	0411066-02	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10	U	ug/L
6627	4-Bromophenyl phenyl ether	OX2S-Dup	0411066-02	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	1	U	ug/L
6628	4-Chloro-3-methylphenol	OX2S-Dup	0411066-02	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	2	U	ug/L
6629	4-Chloroaniline	OX2S-Dup	0411066-02	11/11/04	8270	4-Chloroaniline	#N/A	3	U	ug/L
6630	4-Chlorophenyl phenyl ether	OX2S-Dup	0411066-02	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	1	U	ug/L
6631	4-Nitroaniline	OX2S-Dup	0411066-02	11/11/04	8270	4-Nitroaniline	#N/A	5	U	ug/L
6632	4-Nitrophenol	OX2S-Dup	0411066-02	11/11/04	8270	4-Nitrophenol	#N/A	5	U	ug/L
6633	Benz(a)anthracene	OX2S-Dup	0411066-02	11/11/04	8270	Benz(a)anthracene	#N/A	1	U	ug/L
6634	Benzo(a)pyrene	OX2S-Dup	0411066-02	11/11/04	8270	Benzo(a)pyrene	#N/A	1	U	ug/L
6635	Benzo(b)fluoranthene	OX2S-Dup	0411066-02	11/11/04	8270	Benzo(b)fluoranthene	#N/A	1	U	ug/L
6636	Benzo(g,h,i)perylene	OX2S-Dup	0411066-02	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	1	U	ug/L
6637	Benzo(k)fluoranthene	OX2S-Dup	0411066-02	11/11/04	8270	Benzo(k)fluoranthene	#N/A	1	U	ug/L
6638	Benzyl Alcohol	OX2S-Dup	0411066-02	11/11/04	8270	Benzyl Alcohol	#N/A	5	U	ug/L
6639	Bis(2-chloroethoxy)methane	OX2S-Dup	0411066-02	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	1	U	ug/L
6640	Bis(2-chloroethyl)ether	OX2S-Dup	0411066-02	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	2	U	ug/L
6641	Bis(2-chloroisopropyl)ether	OX2S-Dup	0411066-02	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1	U	ug/L
6642	Butyl benzyl phthalate	OX2S-Dup	0411066-02	11/11/04	8270	Butyl benzyl phthalate	#N/A	1	U	ug/L
6643	Carbazole	OX2S-Dup	0411066-02	11/11/04	8270	Carbazole	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
6644	Chrysene	OX2S-Dup	0411066-02	11/11/04	8270	Chrysene	#N/A	1	U	ug/L
6645	Dibenz(a,h)anthracene	OX2S-Dup	0411066-02	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	1	U	ug/L
6646	Diethyl phthalate	OX2S-Dup	0411066-02	11/11/04	8270	Diethyl phthalate	#N/A	1	U	ug/L
6647	Dimethyl phthalate	OX2S-Dup	0411066-02	11/11/04	8270	Dimethyl phthalate	#N/A	1	U	ug/L
6648	Di-n-butyl phthalate	OX2S-Dup	0411066-02	11/11/04	8270	Di-n-butyl phthalate	#N/A	**1.18**		ug/L
6649	Di-n-octyl phthalate	OX2S-Dup	0411066-02	11/11/04	8270	Di-n-octyl phthalate	#N/A	1	U	ug/L
6650	Fluoranthene	OX2S-Dup	0411066-02	11/11/04	8270	Fluoranthene	#N/A	1	U	ug/L
6651	Hexachlorobenzene	OX2S-Dup	0411066-02	11/11/04	8270	Hexachlorobenzene	#N/A	1	U	ug/L
6652	Hexachlorobutadiene	OX2S-Dup	0411066-02	11/11/04	8270	Hexachlorobutadiene	#N/A	2	U	ug/L
6653	Hexachlorocyclopentadiene	OX2S-Dup	0411066-02	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	5	U	ug/L
6654	Hexachloroethane	OX2S-Dup	0411066-02	11/11/04	8270	Hexachloroethane	#N/A	2	U	ug/L
6655	Indeno(1,2,3-cd)pyrene	OX2S-Dup	0411066-02	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1	U	ug/L
6656	Nitrobenzene	OX2S-Dup	0411066-02	11/11/04	8270	Nitrobenzene	#N/A	1	U	ug/L
6657	N-Nitrosodimethylamine	OX2S-Dup	0411066-02	11/11/04	8270	N-Nitrosodimethylamine	#N/A	1	U	ug/L
6658	N-Nitrosodi-n-propylamine	OX2S-Dup	0411066-02	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	2	U	ug/L
6659	N-Nitrosodiphenylamine	OX2S-Dup	0411066-02	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	1	U	ug/L
6660	Phenanthrene	OX2S-Dup	0411066-02	11/11/04	8270	Phenanthrene	#N/A	1	U	ug/L
6661	Pyrene	OX2S-Dup	0411066-02	11/11/04	8270	Pyrene	#N/A	1	U	ug/L
6662	Pyridine	OX2S-Dup	0411066-02	11/11/04	8270	Pyridine	#N/A	5	U	ug/L
6663	Redox	OX2S-Dup	0411066-02	11/11/04	FIELD	Redox	#N/A	6.34		mV
6664	Turbidity	OX2S-Dup	0411066-02	11/11/04	FIELD	Turbidity	#N/A	0		ntu
6665	Pentachlorophenol	OX5S	0411066-03	11/11/04	8270	Pentachlorophenol	3	5.05	U	ug/L
6666	Phenol	OX5S	0411066-03	11/11/04	8270	Phenol	13	2.02	U	ug/L
6667	3-&4-Methylphenol	OX5S	0411066-03	11/11/04	8270	3-&4-Methylphenol	14	10.1	U	ug/L
6668	Isophorone	OX5S	0411066-03	11/11/04	8270	Isophorone	15	1.01	U	ug/L
6669	2,4-Dimethylphenol	OX5S	0411066-03	11/11/04	8270	2,4-Dimethylphenol	16	3.03	U	ug/L
6670	Benzoic Acid	OX5S	0411066-03	11/11/04	8270	Benzoic Acid	17	20.2	U	ug/L
6671	Naphthalene	OX5S	0411066-03	11/11/04	8270	Naphthalene	18	1.01	U	ug/L
6672	2-Methylnaphthalene	OX5S	0411066-03	11/11/04	8270	2-Methylnaphthalene	19	1.01	U	ug/L
6673	2,4,6-Trichlorophenol	OX5S	0411066-03	11/11/04	8270	2,4,6-Trichlorophenol	20	5.05	U	ug/L
6674	2,4,5-Trichlorophenol	OX5S	0411066-03	11/11/04	8270	2,4,5-Trichlorophenol	21	5.05	U	ug/L
6675	Acenaphthene	OX5S	0411066-03	11/11/04	8270	Acenaphthene	22	1.01	U	ug/L
6676	Dibenzofuran	OX5S	0411066-03	11/11/04	8270	Dibenzofuran	23	1.01	U	ug/L
6677	Fluorene	OX5S	0411066-03	11/11/04	8270	Fluorene	24	1.01	U	ug/L
6678	Bis(2-ethylhexyl)phthalate	OX5S	0411066-03	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	1.01	U	ug/L
6679	Acetone	OX5S	0411066-03	11/11/04	8260	Acetone	30	50	U	ug/L
6680	Carbon disulfide	OX5S	0411066-03	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
6681	2-Butanone	OX5S	0411066-03	11/11/04	8260	2-Butanone	32	10	U	ug/L
6682	Benzene	OX5S	0411066-03	11/11/04	8260	Benzene	33	0.3	U	ug/L
6683	Bromoform	OX5S	0411066-03	11/11/04	8260	Bromoform	34	1	U	ug/L
6684	Toluene	OX5S	0411066-03	11/11/04	8260	Toluene	35	1	U	ug/L
6685	Ethylbenzene	OX5S	0411066-03	11/11/04	8260	Ethylbenzene	36	1	U	ug/L
6686	Styrene	OX5S	0411066-03	11/11/04	8260	Styrene	37	1	U	ug/L
6687	m,p-Xylene	OX5S	0411066-03	11/11/04	8260	m,p-Xylene	38	2	U	ug/L
6688	o-Xylene	OX5S	0411066-03	11/11/04	8260	o-Xylene	39	1	U	ug/L
6689	1,3,5-Trimethylbenzene	OX5S	0411066-03	11/11/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
6690	1,2,4-Trimethylbenzene	OX5S	0411066-03	11/11/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
6691	Isopropylbenzene	OX5S	0411066-03	11/11/04	8260	Isopropylbenzene	42	1	U	ug/L
6692	n-Propylbenzene	OX5S	0411066-03	11/11/04	8260	n-Propylbenzene	43	1	U	ug/L
6693	tert-Butylbenzene	OX5S	0411066-03	11/11/04	8260	tert-Butylbenzene	44	1	U	ug/L
6694	sec-Butylbenzene	OX5S	0411066-03	11/11/04	8260	sec-Butylbenzene	45	1	U	ug/L
6695	4-Isopropyltoluene	OX5S	0411066-03	11/11/04	8260	4-Isopropyltoluene	46	1	U	ug/L
6696	n-Butylbenzene	OX5S	0411066-03	11/11/04	8260	n-Butylbenzene	47	1	U	ug/L
6697	Naphthalene	OX5S	0411066-03	11/11/04	8260	Naphthalene	48	1	U	ug/L
6698	Methyl tert-butyl ether	OX5S	0411066-03	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
6699	Arsenic	OX5S	0411066-03	11/11/04	6020	Arsenic	59	**0.0135**		ug/L
6700	Chromium	OX5S	0411066-03	11/11/04	6010	Chromium	60	0.005	U	mg/L
6701	Copper	OX5S	0411066-03	11/11/04	6010	Copper	61	0.01	U	mg/L
6702	Lead	OX5S	0411066-03	11/11/04	6020	Lead	62	0.00048	U	ug/L
6703	Nickel	OX5S	0411066-03	11/11/04	6010	Nickel	63	0.005	U	mg/L
6704	Zinc	OX5S	0411066-03	11/11/04	6010	Zinc	64	0.01	U	mg/L
6705	Total Dissolved Solids	OX5S	0411066-03	11/11/04	1601	Total Dissolved Solids	74	**211**		mg/L
6706	Chloride	OX5S	0411066-03	11/11/04	9056	Chloride	75	**2.3**		mg/L
6707	pH	OX5S	0411066-03	11/11/04	FIELD	pH	82	6.41		s.u.
6708	Temperature	OX5S	0411066-03	11/11/04	FIELD	Temperature	83	15.5		c
6709	Conductivity	OX5S	0411066-03	11/11/04	FIELD	Conductivity	84	248		us
6710	Dissolved oxygen	OX5S	0411066-03	11/11/04	FIELD	Dissolved oxygen	85	2.05		mg/l
6711	Selenium	OX5S	0411066-03	11/11/04	6010	Selenium	#N/A	0.02	U	mg/L
6712	1,1,1,2-Tetrachloroethane	OX5S	0411066-03	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
6713	1,1,1-Trichloroethane	OX5S	0411066-03	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
6714	1,1,2,2-Tetrachloroethane	OX5S	0411066-03	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
6715	1,1,2-Trichloroethane	OX5S	0411066-03	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
6716	1,1-Dichloroethane	OX5S	0411066-03	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
6717	1,1-Dichloroethene	OX5S	0411066-03	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
6718	1,1-Dichloropropene	OX5S	0411066-03	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
6719	1,2,3-Trichlorobenzene	OX5S	0411066-03	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
6720	1,2,3-Trichloropropane	OX5S	0411066-03	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
6721	1,2,4-Trichlorobenzene	OX5S	0411066-03	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
6722	1,2-Dibromo-3-chloropropane	OX5S	0411066-03	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
6723	1,2-Dibromoethane	OX5S	0411066-03	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
6724	1,2-Dichlorobenzene	OX5S	0411066-03	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
6725	1,2-Dichloroethane	OX5S	0411066-03	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
6726	1,2-Dichloropropane	OX5S	0411066-03	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
6727	1,3-Dichlorobenzene	OX5S	0411066-03	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
6728	1,3-Dichloropropane	OX5S	0411066-03	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
6729	1,4-Dichlorobenzene	OX5S	0411066-03	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
6730	2,2-Dichloropropane	OX5S	0411066-03	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
6731	2-Chlorotoluene	OX5S	0411066-03	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
6732	2-Hexanone	OX5S	0411066-03	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
6733	4-Chlorotoluene	OX5S	0411066-03	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
6734	4-Methyl-2-pentanone	OX5S	0411066-03	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
6735	Acrylonitrile	OX5S	0411066-03	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
6736	Bromobenzene	OX5S	0411066-03	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
6737	Bromochloromethane	OX5S	0411066-03	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
6738	Bromodichloromethane	OX5S	0411066-03	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
6739	Bromomethane	OX5S	0411066-03	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
6740	Carbon tetrachloride	OX5S	0411066-03	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
6741	Chlorobenzene	OX5S	0411066-03	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
6742	Chloroethane	OX5S	0411066-03	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
6743	Chloroform	OX5S	0411066-03	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
6744	Chloromethane	OX5S	0411066-03	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
6745	cis-1,2-Dichloroethene	OX5S	0411066-03	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
6746	cis-1,3-Dichloropropene	OX5S	0411066-03	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
6747	Dibromochloromethane	OX5S	0411066-03	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
6748	Dibromomethane	OX5S	0411066-03	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
6749	Dichlorodifluoromethane	OX5S	0411066-03	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
6750	Hexachlorobutadiene	OX5S	0411066-03	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
6751	Methylene chloride	OX5S	0411066-03	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
6752	Tetrachloroethene	OX5S	0411066-03	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
6753	trans-1,2-Dichloroethene	OX5S	0411066-03	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
6754	trans-1,3-Dichloropropene	OX5S	0411066-03	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
6755	Trichloroethene	OX5S	0411066-03	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
6756	Trichlorofluoromethane	OX5S	0411066-03	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
6757	Vinyl chloride	OX5S	0411066-03	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
6758	1,2,4-Trichlorobenzene	OX5S	0411066-03	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	1.01	U	ug/L
6759	1,2-Dichlorobenzene	OX5S	0411066-03	11/11/04	8270	1,2-Dichlorobenzene	#N/A	1.01	U	ug/L
6760	1,3-Dichlorobenzene	OX5S	0411066-03	11/11/04	8270	1,3-Dichlorobenzene	#N/A	1.01	U	ug/L
6761	1,4-Dichlorobenzene	OX5S	0411066-03	11/11/04	8270	1,4-Dichlorobenzene	#N/A	1.01	U	ug/L
6762	2,3,4,6-Tetrachlorophenol	OX5S	0411066-03	11/11/04	8270	2,3,4,6-Tetrachlorophenol	#N/A	5.05	U	ug/L
6763	2,3,5,6-Tetrachlorophenol	OX5S	0411066-03	11/11/04	8270	2,3,5,6-Tetrachlorophenol	#N/A	5.05	U	ug/L
6764	2,4-Dichlorophenol	OX5S	0411066-03	11/11/04	8270	2,4-Dichlorophenol	#N/A	3.03	U	ug/L
6765	2,4-Dinitrophenol	OX5S	0411066-03	11/11/04	8270	2,4-Dinitrophenol	#N/A	10.1	U	ug/L
6766	2,4-Dinitrotoluene	OX5S	0411066-03	11/11/04	8270	2,4-Dinitrotoluene	#N/A	5.05	U	ug/L
6767	2,6-Dinitrotoluene	OX5S	0411066-03	11/11/04	8270	2,6-Dinitrotoluene	#N/A	5.05	U	ug/L
6768	2-Chloronaphthalene	OX5S	0411066-03	11/11/04	8270	2-Chloronaphthalene	#N/A	1.01	U	ug/L
6769	2-Chlorophenol	OX5S	0411066-03	11/11/04	8270	2-Chlorophenol	#N/A	1.01	U	ug/L
6770	2-Methylphenol	OX5S	0411066-03	11/11/04	8270	2-Methylphenol	#N/A	2.02	U	ug/L
6771	2-Nitroaniline	OX5S	0411066-03	11/11/04	8270	2-Nitroaniline	#N/A	5.05	U	ug/L
6772	2-Nitrophenol	OX5S	0411066-03	11/11/04	8270	2-Nitrophenol	#N/A	5.05	U	ug/L
6773	3,3'-Dichlorobenzidine	OX5S	0411066-03	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	5.05	U	ug/L
6774	3-Nitroaniline	OX5S	0411066-03	11/11/04	8270	3-Nitroaniline	#N/A	6.06	U	ug/L
6775	4,6-Dinitro-2-methylphenol	OX5S	0411066-03	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.1	U	ug/L
6776	4-Bromophenyl phenyl ether	OX5S	0411066-03	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	1.01	U	ug/L
6777	4-Chloro-3-methylphenol	OX5S	0411066-03	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	2.02	U	ug/L
6778	4-Chloroaniline	OX5S	0411066-03	11/11/04	8270	4-Chloroaniline	#N/A	3.03	U	ug/L
6779	4-Chlorophenyl phenyl ether	OX5S	0411066-03	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.01	U	ug/L
6780	4-Nitroaniline	OX5S	0411066-03	11/11/04	8270	4-Nitroaniline	#N/A	5.05	U	ug/L
6781	4-Nitrophenol	OX5S	0411066-03	11/11/04	8270	4-Nitrophenol	#N/A	5.05	U	ug/L
6782	Benz(a)anthracene	OX5S	0411066-03	11/11/04	8270	Benz(a)anthracene	#N/A	1.01	U	ug/L
6783	Benzo(a)pyrene	OX5S	0411066-03	11/11/04	8270	Benzo(a)pyrene	#N/A	1.01	U	ug/L
6784	Benzo(b)fluoranthene	OX5S	0411066-03	11/11/04	8270	Benzo(b)fluoranthene	#N/A	1.01	U	ug/L
6785	Benzo(g,h,i)perylene	OX5S	0411066-03	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	1.01	U	ug/L
6786	Benzo(k)fluoranthene	OX5S	0411066-03	11/11/04	8270	Benzo(k)fluoranthene	#N/A	1.01	U	ug/L
6787	Benzyl Alcohol	OX5S	0411066-03	11/11/04	8270	Benzyl Alcohol	#N/A	5.05	U	ug/L
6788	Bis(2-chloroethoxy)methane	OX5S	0411066-03	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.01	U	ug/L
6789	Bis(2-chloroethyl)ether	OX5S	0411066-03	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	2.02	U	ug/L

	A	B	C	D	E	F	G	H	I	J
6790	Bis(2-chloroisopropyl)ether	OX5S	0411066-03	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.01	U	ug/L
6791	Butyl benzyl phthalate	OX5S	0411066-03	11/11/04	8270	Butyl benzyl phthalate	#N/A	1.01	U	ug/L
6792	Carbazole	OX5S	0411066-03	11/11/04	8270	Carbazole	#N/A	1.01	U	ug/L
6793	Chrysene	OX5S	0411066-03	11/11/04	8270	Chrysene	#N/A	1.01	U	ug/L
6794	Dibenz(a,h)anthracene	OX5S	0411066-03	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	1.01	U	ug/L
6795	Diethyl phthalate	OX5S	0411066-03	11/11/04	8270	Diethyl phthalate	#N/A	1.01	U	ug/L
6796	Dimethyl phthalate	OX5S	0411066-03	11/11/04	8270	Dimethyl phthalate	#N/A	1.01	U	ug/L
6797	Di-n-butyl phthalate	OX5S	0411066-03	11/11/04	8270	Di-n-butyl phthalate	#N/A	1.01	U	ug/L
6798	Di-n-octyl phthalate	OX5S	0411066-03	11/11/04	8270	Di-n-octyl phthalate	#N/A	1.01	U	ug/L
6799	Fluoranthene	OX5S	0411066-03	11/11/04	8270	Fluoranthene	#N/A	1.01	U	ug/L
6800	Hexachlorobenzene	OX5S	0411066-03	11/11/04	8270	Hexachlorobenzene	#N/A	1.01	U	ug/L
6801	Hexachlorobutadiene	OX5S	0411066-03	11/11/04	8270	Hexachlorobutadiene	#N/A	2.02	U	ug/L
6802	Hexachlorocyclopentadiene	OX5S	0411066-03	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	5.05	U	ug/L
6803	Hexachloroethane	OX5S	0411066-03	11/11/04	8270	Hexachloroethane	#N/A	2.02	U	ug/L
6804	Indeno(1,2,3-cd)pyrene	OX5S	0411066-03	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.01	U	ug/L
6805	Nitrobenzene	OX5S	0411066-03	11/11/04	8270	Nitrobenzene	#N/A	1.01	U	ug/L
6806	N-Nitrosodimethylamine	OX5S	0411066-03	11/11/04	8270	N-Nitrosodimethylamine	#N/A	1.01	U	ug/L
6807	N-Nitrosodi-n-propylamine	OX5S	0411066-03	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.02	U	ug/L
6808	N-Nitrosodiphenylamine	OX5S	0411066-03	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	1.01	U	ug/L
6809	Phenanthrene	OX5S	0411066-03	11/11/04	8270	Phenanthrene	#N/A	1.01	U	ug/L
6810	Pyrene	OX5S	0411066-03	11/11/04	8270	Pyrene	#N/A	1.01	U	ug/L
6811	Pyridine	OX5S	0411066-03	11/11/04	8270	Pyridine	#N/A	5.05	U	ug/L
6812	Redox	OX5S	0411066-03	11/11/04	FIELD	Redox	#N/A	8.66		mV
6813	Turbidity	OX5S	0411066-03	11/11/04	FIELD	Turbidity	#N/A	0		ntu
6814	Ferrous Iron	OX5S	0411066-03	11/11/04	SM3500 FeD	Ferrous Iron	#N/A	**11.1**		mg/L
6815	Pentachlorophenol	OX6S	0411066-04	11/11/04	8270	Pentachlorophenol	3	**624**		ug/L
6816	Phenol	OX6S	0411066-04	11/11/04	8270	Phenol	13	1.97	U	ug/L
6817	3-&4-Methylphenol	OX6S	0411066-04	11/11/04	8270	3-&4-Methylphenol	14	9.84	U	ug/L
6818	Isophorone	OX6S	0411066-04	11/11/04	8270	Isophorone	15	0.984	U	ug/L
6819	2,4-Dimethylphenol	OX6S	0411066-04	11/11/04	8270	2,4-Dimethylphenol	16	2.95	U	ug/L
6820	Benzoic Acid	OX6S	0411066-04	11/11/04	8270	Benzoic Acid	17	19.7	U	ug/L
6821	Naphthalene	OX6S	0411066-04	11/11/04	8270	Naphthalene	18	0.984	U	ug/L
6822	2-Methylnaphthalene	OX6S	0411066-04	11/11/04	8270	2-Methylnaphthalene	19	0.984	U	ug/L
6823	2,4,6-Trichlorophenol	OX6S	0411066-04	11/11/04	8270	2,4,6-Trichlorophenol	20	4.92	U	ug/L
6824	2,4,5-Trichlorophenol	OX6S	0411066-04	11/11/04	8270	2,4,5-Trichlorophenol	21	4.92	U	ug/L
6825	Acenaphthene	OX6S	0411066-04	11/11/04	8270	Acenaphthene	22	0.984	U	ug/L
6826	Dibenzofuran	OX6S	0411066-04	11/11/04	8270	Dibenzofuran	23	0.984	U	ug/L
6827	Fluorene	OX6S	0411066-04	11/11/04	8270	Fluorene	24	0.984	U	ug/L
6828	Bis(2-ethylhexyl)phthalate	OX6S	0411066-04	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	0.984	U	ug/L
6829	Acetone	OX6S	0411066-04	11/11/04	8260	Acetone	30	50	U	ug/L
6830	Carbon disulfide	OX6S	0411066-04	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
6831	2-Butanone	OX6S	0411066-04	11/11/04	8260	2-Butanone	32	10	U	ug/L
6832	Benzene	OX6S	0411066-04	11/11/04	8260	Benzene	33	0.3	U	ug/L
6833	Bromoform	OX6S	0411066-04	11/11/04	8260	Bromoform	34	1	U	ug/L
6834	Toluene	OX6S	0411066-04	11/11/04	8260	Toluene	35	1	U	ug/L
6835	Ethylbenzene	OX6S	0411066-04	11/11/04	8260	Ethylbenzene	36	1	U	ug/L
6836	Styrene	OX6S	0411066-04	11/11/04	8260	Styrene	37	1	U	ug/L
6837	m,p-Xylene	OX6S	0411066-04	11/11/04	8260	m,p-Xylene	38	2	U	ug/L
6838	o-Xylene	OX6S	0411066-04	11/11/04	8260	o-Xylene	39	1	U	ug/L
6839	1,3,5-Trimethylbenzene	OX6S	0411066-04	11/11/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
6840	1,2,4-Trimethylbenzene	OX6S	0411066-04	11/11/04	8260	1,2,4-Trimethylbenzene	41	1	U	ug/L
6841	Isopropylbenzene	OX6S	0411066-04	11/11/04	8260	Isopropylbenzene	42	**1.8**		ug/L
6842	n-Propylbenzene	OX6S	0411066-04	11/11/04	8260	n-Propylbenzene	43	1	U	ug/L
6843	tert-Butylbenzene	OX6S	0411066-04	11/11/04	8260	tert-Butylbenzene	44	1	U	ug/L
6844	sec-Butylbenzene	OX6S	0411066-04	11/11/04	8260	sec-Butylbenzene	45	**1.5**		ug/L
6845	4-Isopropyltoluene	OX6S	0411066-04	11/11/04	8260	4-Isopropyltoluene	46	1	U	ug/L
6846	n-Butylbenzene	OX6S	0411066-04	11/11/04	8260	n-Butylbenzene	47	1	U	ug/L
6847	Naphthalene	OX6S	0411066-04	11/11/04	8260	Naphthalene	48	1	U	ug/L
6848	Methyl tert-butyl ether	OX6S	0411066-04	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
6849	Arsenic	OX6S	0411066-04	11/11/04	6020	Arsenic	59	**0.0133**		ug/L
6850	Chromium	OX6S	0411066-04	11/11/04	6010	Chromium	60	0.005	U	mg/L
6851	Copper	OX6S	0411066-04	11/11/04	6010	Copper	61	0.01	U	mg/L
6852	Lead	OX6S	0411066-04	11/11/04	6020	Lead	62	**0.00194**		ug/L
6853	Nickel	OX6S	0411066-04	11/11/04	6010	Nickel	63	**0.25**		mg/L
6854	Zinc	OX6S	0411066-04	11/11/04	6010	Zinc	64	**0.0833**		mg/L
6855	Total Dissolved Solids	OX6S	0411066-04	11/11/04	1601	Total Dissolved Solids	74	**160**		mg/L
6856	Chloride	OX6S	0411066-04	11/11/04	9056	Chloride	75	**3.75**		mg/L
6857	pH	OX6S	0411066-04	11/11/04	FIELD	pH	82	6.55		s.u.
6858	Temperature	OX6S	0411066-04	11/11/04	FIELD	Temperature	83	16.2		c
6859	Conductivity	OX6S	0411066-04	11/11/04	FIELD	Conductivity	84	479		us
6860	Dissolved oxygen	OX6S	0411066-04	11/11/04	FIELD	Dissolved oxygen	85	0.55		mg/l
6861	2,3,7,8-TCDF	OX6S	E0401188-001	11/11/04	8290	2,3,7,8-TCDF	89	0.001679	UJ	ng/L
6862	Total TCDF	OX6S	E0401188-001	11/11/04	8290	Total TCDF	90	0.001679	U	ng/L

	A	B	C	D	E	F	G	H	I	J
6863	2,3,7,8-TCDD	OX6S	E0401188-001	11/11/04	8290	2,3,7,8-TCDD	91	0.000421	UJ	ng/L
6864	Total TCDD	OX6S	E0401188-001	11/11/04	8290	Total TCDD	92	0.000421	U	ng/L
6865	1,2,3,7,8-PeCDF	OX6S	E0401188-001	11/11/04	8290	1,2,3,7,8-PeCDF	93	0.000886	UJ	ng/L
6866	2,3,4,7,8-PeCDF	OX6S	E0401188-001	11/11/04	8290	2,3,4,7,8-PeCDF	94	0.001359	UJ	ng/L
6867	Total PeCDF	OX6S	E0401188-001	11/11/04	8290	Total PeCDF	95	**0.016804**		ng/L
6868	1,2,3,7,8-PeCDD	OX6S	E0401188-001	11/11/04	8290	1,2,3,7,8-PeCDD	96	0.001631	U	ng/L
6869	Total PeCDD	OX6S	E0401188-001	11/11/04	8290	Total PeCDD	97	0.001631	U	ng/L
6870	1,2,3,4,7,8-HxCDF	OX6S	E0401188-001	11/11/04	8290	1,2,3,4,7,8-HxCDF	98	0.002207	UJ	ng/L
6871	1,2,3,6,7,8-HxCDF	OX6S	E0401188-001	11/11/04	8290	1,2,3,6,7,8-HxCDF	99	0.001128	U	ng/L
6872	2,3,4,6,7,8-HxCDF	OX6S	E0401188-001	11/11/04	8290	2,3,4,6,7,8-HxCDF	100	0.001206	U	ng/L
6873	1,2,3,7,8,9-HxCDF	OX6S	E0401188-001	11/11/04	8290	1,2,3,7,8,9-HxCDF	101	0.001389	U	ng/L
6874	Total HxCDF	OX6S	E0401188-001	11/11/04	8290	Total HxCDF	102	**0.064214**		ng/L
6875	1,2,3,4,7,8-HxCDD	OX6S	E0401188-001	11/11/04	8290	1,2,3,4,7,8-HxCDD	103	0.000608	U	ng/L
6876	1,2,3,6,7,8-HxCDD	OX6S	E0401188-001	11/11/04	8290	1,2,3,6,7,8-HxCDD	104	**0.013944**	J	ng/L
6877	1,2,3,7,8,9-HxCDD	OX6S	E0401188-001	11/11/04	8290	1,2,3,7,8,9-HxCDD	105	0.000578	U	ng/L
6878	Total HxCDD	OX6S	E0401188-001	11/11/04	8290	Total HxCDD	106	**0.029549**		ng/L
6879	1,2,3,4,6,7,8-HpCDF	OX6S	E0401188-001	11/11/04	8290	1,2,3,4,6,7,8-HpCDF	107	**0.045009**		ng/L
6880	1,2,3,4,7,8,9-HpCDF	OX6S	E0401188-001	11/11/04	8290	1,2,3,4,7,8,9-HpCDF	108	0.001752	U	ng/L
6881	Total HpCDF	OX6S	E0401188-001	11/11/04	8290	Total HpCDF	109	**0.23456**		ng/L
6882	1,2,3,4,6,7,8-HpCDD	OX6S	E0401188-001	11/11/04	8290	1,2,3,4,6,7,8-HpCDD	110	**0.292709**		ng/L
6883	Total HpCDD	OX6S	E0401188-001	11/11/04	8290	Total HpCDD	111	**0.450367**		ng/L
6884	OCDF	OX6S	E0401188-001	11/11/04	8290	OCDF	112	**0.201198**		ng/L
6885	OCDD	OX6S	E0401188-001	11/11/04	8290	OCDD	113	**1.588077**		ng/L
6886	Selenium	OX6S	0411066-04	11/11/04	6010	Selenium	#N/A	0.02	U	mg/L
6887	1,1,1,2-Tetrachloroethane	OX6S	0411066-04	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
6888	1,1,1-Trichloroethane	OX6S	0411066-04	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
6889	1,1,2,2-Tetrachloroethane	OX6S	0411066-04	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
6890	1,1,2-Trichloroethane	OX6S	0411066-04	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
6891	1,1-Dichloroethane	OX6S	0411066-04	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
6892	1,1-Dichloroethene	OX6S	0411066-04	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
6893	1,1-Dichloropropene	OX6S	0411066-04	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
6894	1,2,3-Trichlorobenzene	OX6S	0411066-04	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
6895	1,2,3-Trichloropropane	OX6S	0411066-04	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
6896	1,2,4-Trichlorobenzene	OX6S	0411066-04	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
6897	1,2-Dibromo-3-chloropropane	OX6S	0411066-04	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
6898	1,2-Dibromoethane	OX6S	0411066-04	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
6899	1,2-Dichlorobenzene	OX6S	0411066-04	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
6900	1,2-Dichloroethane	OX6S	0411066-04	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
6901	1,2-Dichloropropane	OX6S	0411066-04	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
6902	1,3-Dichlorobenzene	OX6S	0411066-04	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
6903	1,3-Dichloropropane	OX6S	0411066-04	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
6904	1,4-Dichlorobenzene	OX6S	0411066-04	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
6905	2,2-Dichloropropane	OX6S	0411066-04	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
6906	2-Chlorotoluene	OX6S	0411066-04	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
6907	2-Hexanone	OX6S	0411066-04	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
6908	4-Chlorotoluene	OX6S	0411066-04	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
6909	4-Methyl-2-pentanone	OX6S	0411066-04	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
6910	Acrylonitrile	OX6S	0411066-04	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
6911	Bromobenzene	OX6S	0411066-04	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
6912	Bromochloromethane	OX6S	0411066-04	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
6913	Bromodichloromethane	OX6S	0411066-04	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
6914	Bromomethane	OX6S	0411066-04	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
6915	Carbon tetrachloride	OX6S	0411066-04	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
6916	Chlorobenzene	OX6S	0411066-04	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
6917	Chloroethane	OX6S	0411066-04	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
6918	Chloroform	OX6S	0411066-04	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
6919	Chloromethane	OX6S	0411066-04	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
6920	cis-1,2-Dichloroethene	OX6S	0411066-04	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
6921	cis-1,3-Dichloropropene	OX6S	0411066-04	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
6922	Dibromochloromethane	OX6S	0411066-04	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
6923	Dibromomethane	OX6S	0411066-04	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
6924	Dichlorodifluoromethane	OX6S	0411066-04	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
6925	Hexachlorobutadiene	OX6S	0411066-04	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
6926	Methylene chloride	OX6S	0411066-04	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
6927	Tetrachloroethene	OX6S	0411066-04	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
6928	trans-1,2-Dichloroethene	OX6S	0411066-04	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
6929	trans-1,3-Dichloropropene	OX6S	0411066-04	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
6930	Trichloroethene	OX6S	0411066-04	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
6931	Trichlorofluoromethane	OX6S	0411066-04	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
6932	Vinyl chloride	OX6S	0411066-04	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
6933	1,2,4-Trichlorobenzene	OX6S	0411066-04	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	0.984	U	ug/L
6934	1,2-Dichlorobenzene	OX6S	0411066-04	11/11/04	8270	1,2-Dichlorobenzene	#N/A	0.984	U	ug/L
6935	1,3-Dichlorobenzene	OX6S	0411066-04	11/11/04	8270	1,3-Dichlorobenzene	#N/A	0.984	U	ug/L

	A	B	C	D	E	F	G	H	I	J
6936	1,4-Dichlorobenzene	OX6S	0411066-04	11/11/04	8270	1,4-Dichlorobenzene	#N/A	0.984	U	ug/L
6937	2,3,4,6-Tetrachlorophenol	OX6S	0411066-04	11/11/04	8270	2,3,4,6-Tetrachlorophenol	#N/A	**24.7**		ug/L
6938	2,3,5,6-Tetrachlorophenol	OX6S	0411066-04	11/11/04	8270	2,3,5,6-Tetrachlorophenol	#N/A	**43.8**		ug/L
6939	2,4-Dichlorophenol	OX6S	0411066-04	11/11/04	8270	2,4-Dichlorophenol	#N/A	2.95	U	ug/L
6940	2,4-Dinitrophenol	OX6S	0411066-04	11/11/04	8270	2,4-Dinitrophenol	#N/A	9.84	U	ug/L
6941	2,4-Dinitrotoluene	OX6S	0411066-04	11/11/04	8270	2,4-Dinitrotoluene	#N/A	4.92	U	ug/L
6942	2,6-Dinitrotoluene	OX6S	0411066-04	11/11/04	8270	2,6-Dinitrotoluene	#N/A	4.92	U	ug/L
6943	2-Chloronaphthalene	OX6S	0411066-04	11/11/04	8270	2-Chloronaphthalene	#N/A	0.984	U	ug/L
6944	2-Chlorophenol	OX6S	0411066-04	11/11/04	8270	2-Chlorophenol	#N/A	0.984	U	ug/L
6945	2-Methylphenol	OX6S	0411066-04	11/11/04	8270	2-Methylphenol	#N/A	1.97	U	ug/L
6946	2-Nitroaniline	OX6S	0411066-04	11/11/04	8270	2-Nitroaniline	#N/A	4.92	U	ug/L
6947	2-Nitrophenol	OX6S	0411066-04	11/11/04	8270	2-Nitrophenol	#N/A	4.92	U	ug/L
6948	3,3'-Dichlorobenzidine	OX6S	0411066-04	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	4.92	U	ug/L
6949	3-Nitroaniline	OX6S	0411066-04	11/11/04	8270	3-Nitroaniline	#N/A	5.91	U	ug/L
6950	4,6-Dinitro-2-methylphenol	OX6S	0411066-04	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.84	U	ug/L
6951	4-Bromophenyl phenyl ether	OX6S	0411066-04	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	0.984	U	ug/L
6952	4-Chloro-3-methylphenol	OX6S	0411066-04	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	1.97	U	ug/L
6953	4-Chloroaniline	OX6S	0411066-04	11/11/04	8270	4-Chloroaniline	#N/A	2.95	U	ug/L
6954	4-Chlorophenyl phenyl ether	OX6S	0411066-04	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.984	U	ug/L
6955	4-Nitroaniline	OX6S	0411066-04	11/11/04	8270	4-Nitroaniline	#N/A	4.92	U	ug/L
6956	4-Nitrophenol	OX6S	0411066-04	11/11/04	8270	4-Nitrophenol	#N/A	4.92	U	ug/L
6957	Benz(a)anthracene	OX6S	0411066-04	11/11/04	8270	Benz(a)anthracene	#N/A	0.984	U	ug/L
6958	Benzo(a)pyrene	OX6S	0411066-04	11/11/04	8270	Benzo(a)pyrene	#N/A	0.984	U	ug/L
6959	Benzo(b)fluoranthene	OX6S	0411066-04	11/11/04	8270	Benzo(b)fluoranthene	#N/A	0.984	U	ug/L
6960	Benzo(g,h,i)perylene	OX6S	0411066-04	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	0.984	U	ug/L
6961	Benzo(k)fluoranthene	OX6S	0411066-04	11/11/04	8270	Benzo(k)fluoranthene	#N/A	0.984	U	ug/L
6962	Benzyl Alcohol	OX6S	0411066-04	11/11/04	8270	Benzyl Alcohol	#N/A	4.92	U	ug/L
6963	Bis(2-chloroethoxy)methane	OX6S	0411066-04	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.984	U	ug/L
6964	Bis(2-chloroethyl)ether	OX6S	0411066-04	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	1.97	U	ug/L
6965	Bis(2-chloroisopropyl)ether	OX6S	0411066-04	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.984	U	ug/L
6966	Butyl benzyl phthalate	OX6S	0411066-04	11/11/04	8270	Butyl benzyl phthalate	#N/A	0.984	U	ug/L
6967	Carbazole	OX6S	0411066-04	11/11/04	8270	Carbazole	#N/A	0.984	U	ug/L
6968	Chrysene	OX6S	0411066-04	11/11/04	8270	Chrysene	#N/A	0.984	U	ug/L
6969	Dibenz(a,h)anthracene	OX6S	0411066-04	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	0.984	U	ug/L
6970	Diethyl phthalate	OX6S	0411066-04	11/11/04	8270	Diethyl phthalate	#N/A	0.984	U	ug/L
6971	Dimethyl phthalate	OX6S	0411066-04	11/11/04	8270	Dimethyl phthalate	#N/A	0.984	U	ug/L
6972	Di-n-butyl phthalate	OX6S	0411066-04	11/11/04	8270	Di-n-butyl phthalate	#N/A	0.984	U	ug/L
6973	Di-n-octyl phthalate	OX6S	0411066-04	11/11/04	8270	Di-n-octyl phthalate	#N/A	0.984	U	ug/L
6974	Fluoranthene	OX6S	0411066-04	11/11/04	8270	Fluoranthene	#N/A	0.984	U	ug/L
6975	Hexachlorobenzene	OX6S	0411066-04	11/11/04	8270	Hexachlorobenzene	#N/A	0.984	U	ug/L
6976	Hexachlorobutadiene	OX6S	0411066-04	11/11/04	8270	Hexachlorobutadiene	#N/A	1.97	U	ug/L
6977	Hexachlorocyclopentadiene	OX6S	0411066-04	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	4.92	U	ug/L
6978	Hexachloroethane	OX6S	0411066-04	11/11/04	8270	Hexachloroethane	#N/A	1.97	U	ug/L
6979	Indeno(1,2,3-cd)pyrene	OX6S	0411066-04	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.984	U	ug/L
6980	Nitrobenzene	OX6S	0411066-04	11/11/04	8270	Nitrobenzene	#N/A	0.984	U	ug/L
6981	N-Nitrosodimethylamine	OX6S	0411066-04	11/11/04	8270	N-Nitrosodimethylamine	#N/A	0.984	U	ug/L
6982	N-Nitrosodi-n-propylamine	OX6S	0411066-04	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.97	U	ug/L
6983	N-Nitrosodiphenylamine	OX6S	0411066-04	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	0.984	U	ug/L
6984	Phenanthrene	OX6S	0411066-04	11/11/04	8270	Phenanthrene	#N/A	0.984	U	ug/L
6985	Pyrene	OX6S	0411066-04	11/11/04	8270	Pyrene	#N/A	0.984	U	ug/L
6986	Pyridine	OX6S	0411066-04	11/11/04	8270	Pyridine	#N/A	4.92	U	ug/L
6987	Total TEQ	OX6S	E0401188-001	11/11/04	8290	Total TEQ	#N/A	**0.006561**		ng/L
6988	Redox	OX6S	0411066-04	11/11/04	FIELD	Redox	#N/A	7.82		mV
6989	Turbidity	OX6S	0411066-04	11/11/04	FIELD	Turbidity	#N/A	0		ntu
6990	Ferrous Iron	OX6S	0411066-04	11/11/04	SM3500 FeD	Ferrous Iron	#N/A	**26.2**		mg/L
6991	Pentachlorophenol	OX7S	0411066-05	11/11/04	8270	Pentachlorophenol	3	**84.7**		ug/L
6992	Phenol	OX7S	0411066-05	11/11/04	8270	Phenol	13	2.01	U	ug/L
6993	3-&4-Methylphenol	OX7S	0411066-05	11/11/04	8270	3-&4-Methylphenol	14	10	U	ug/L
6994	Isophorone	OX7S	0411066-05	11/11/04	8270	Isophorone	15	1	U	ug/L
6995	2,4-Dimethylphenol	OX7S	0411066-05	11/11/04	8270	2,4-Dimethylphenol	16	3.01	U	ug/L
6996	Benzoic Acid	OX7S	0411066-05	11/11/04	8270	Benzoic Acid	17	20.1	U	ug/L
6997	Naphthalene	OX7S	0411066-05	11/11/04	8270	Naphthalene	18	1	U	ug/L
6998	2-Methylnaphthalene	OX7S	0411066-05	11/11/04	8270	2-Methylnaphthalene	19	1	U	ug/L
6999	2,4,6-Trichlorophenol	OX7S	0411066-05	11/11/04	8270	2,4,6-Trichlorophenol	20	5.02	U	ug/L
7000	2,4,5-Trichlorophenol	OX7S	0411066-05	11/11/04	8270	2,4,5-Trichlorophenol	21	5.02	U	ug/L
7001	Acenaphthene	OX7S	0411066-05	11/11/04	8270	Acenaphthene	22	1	U	ug/L
7002	Dibenzofuran	OX7S	0411066-05	11/11/04	8270	Dibenzofuran	23	1	U	ug/L
7003	Fluorene	OX7S	0411066-05	11/11/04	8270	Fluorene	24	1	U	ug/L
7004	Bis(2-ethylhexyl)phthalate	OX7S	0411066-05	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	1	U	ug/L
7005	Acetone	OX7S	0411066-05	11/11/04	8260	Acetone	30	50	U	ug/L
7006	Carbon disulfide	OX7S	0411066-05	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
7007	2-Butanone	OX7S	0411066-05	11/11/04	8260	2-Butanone	32	10	U	ug/L
7008	Benzene	OX7S	0411066-05	11/11/04	8260	Benzene	33	0.3	U	ug/L

	A	B	C	D	E	F	G	H	I	J
7009	Bromoform	OX7S	0411066-05	11/11/04	8260	Bromoform	34	1	U	ug/L
7010	Toluene	OX7S	0411066-05	11/11/04	8260	Toluene	35	1	U	ug/L
7011	Ethylbenzene	OX7S	0411066-05	11/11/04	8260	Ethylbenzene	36	1	U	ug/L
7012	Styrene	OX7S	0411066-05	11/11/04	8260	Styrene	37	1	U	ug/L
7013	m,p-Xylene	OX7S	0411066-05	11/11/04	8260	m,p-Xylene	38	2	U	ug/L
7014	o-Xylene	OX7S	0411066-05	11/11/04	8260	o-Xylene	39	1	U	ug/L
7015	1,3,5-Trimethylbenzene	OX7S	0411066-05	11/11/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
7016	1,2,4-Trimethylbenzene	OX7S	0411066-05	11/11/04	8260	1,2,4-Trimethylbenzene	41	**13.2**		ug/L
7017	Isopropylbenzene	OX7S	0411066-05	11/11/04	8260	Isopropylbenzene	42	**1.4**		ug/L
7018	n-Propylbenzene	OX7S	0411066-05	11/11/04	8260	n-Propylbenzene	43	1	U	ug/L
7019	tert-Butylbenzene	OX7S	0411066-05	11/11/04	8260	tert-Butylbenzene	44	1	U	ug/L
7020	sec-Butylbenzene	OX7S	0411066-05	11/11/04	8260	sec-Butylbenzene	45	1	U	ug/L
7021	4-Isopropyltoluene	OX7S	0411066-05	11/11/04	8260	4-Isopropyltoluene	46	1	U	ug/L
7022	n-Butylbenzene	OX7S	0411066-05	11/11/04	8260	n-Butylbenzene	47	1	U	ug/L
7023	Naphthalene	OX7S	0411066-05	11/11/04	8260	Naphthalene	48	1	U	ug/L
7024	Methyl tert-butyl ether	OX7S	0411066-05	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
7025	Arsenic	OX7S	0411066-05	11/11/04	6020	Arsenic	59	**0.0178**		ug/L
7026	Chromium	OX7S	0411066-05	11/11/04	6010	Chromium	60	0.005	U	mg/L
7027	Copper	OX7S	0411066-05	11/11/04	6010	Copper	61	0.01	U	mg/L
7028	Lead	OX7S	0411066-05	11/11/04	6020	Lead	62	**0.001**		ug/L
7029	Nickel	OX7S	0411066-05	11/11/04	6010	Nickel	63	**0.169**		mg/L
7030	Zinc	OX7S	0411066-05	11/11/04	6010	Zinc	64	**0.0295**		mg/L
7031	Total Dissolved Solids	OX7S	0411066-05	11/11/04	1601	Total Dissolved Solids	74	**355**		mg/L
7032	Chloride	OX7S	0411066-05	11/11/04	9056	Chloride	75	**3.76**		mg/L
7033	pH	OX7S	0411066-05	11/11/04	FIELD	pH	82	6.6		s.u.
7034	Temperature	OX7S	0411066-05	11/11/04	FIELD	Temperature	83	16		c
7035	Conductivity	OX7S	0411066-05	11/11/04	FIELD	Conductivity	84	416		us
7036	Dissolved oxygen	OX7S	0411066-05	11/11/04	FIELD	Dissolved oxygen	85	0.72		mg/l
7037	Selenium	OX7S	0411066-05	11/11/04	6010	Selenium	#N/A	0.02	U	mg/L
7038	1,1,1,2-Tetrachloroethane	OX7S	0411066-05	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
7039	1,1,1-Trichloroethane	OX7S	0411066-05	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
7040	1,1,2,2-Tetrachloroethane	OX7S	0411066-05	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
7041	1,1,2-Trichloroethane	OX7S	0411066-05	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
7042	1,1-Dichloroethane	OX7S	0411066-05	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
7043	1,1-Dichloroethene	OX7S	0411066-05	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
7044	1,1-Dichloropropene	OX7S	0411066-05	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
7045	1,2,3-Trichlorobenzene	OX7S	0411066-05	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
7046	1,2,3-Trichloropropane	OX7S	0411066-05	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
7047	1,2,4-Trichlorobenzene	OX7S	0411066-05	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
7048	1,2-Dibromo-3-chloropropane	OX7S	0411066-05	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
7049	1,2-Dibromoethane	OX7S	0411066-05	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
7050	1,2-Dichlorobenzene	OX7S	0411066-05	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
7051	1,2-Dichloroethane	OX7S	0411066-05	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
7052	1,2-Dichloropropane	OX7S	0411066-05	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
7053	1,3-Dichlorobenzene	OX7S	0411066-05	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
7054	1,3-Dichloropropane	OX7S	0411066-05	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
7055	1,4-Dichlorobenzene	OX7S	0411066-05	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
7056	2,2-Dichloropropane	OX7S	0411066-05	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
7057	2-Chlorotoluene	OX7S	0411066-05	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
7058	2-Hexanone	OX7S	0411066-05	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
7059	4-Chlorotoluene	OX7S	0411066-05	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
7060	4-Methyl-2-pentanone	OX7S	0411066-05	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
7061	Acrylonitrile	OX7S	0411066-05	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
7062	Bromobenzene	OX7S	0411066-05	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
7063	Bromochloromethane	OX7S	0411066-05	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
7064	Bromodichloromethane	OX7S	0411066-05	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
7065	Bromomethane	OX7S	0411066-05	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
7066	Carbon tetrachloride	OX7S	0411066-05	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
7067	Chlorobenzene	OX7S	0411066-05	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
7068	Chloroethane	OX7S	0411066-05	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
7069	Chloroform	OX7S	0411066-05	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
7070	Chloromethane	OX7S	0411066-05	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
7071	cis-1,2-Dichloroethene	OX7S	0411066-05	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
7072	cis-1,3-Dichloropropene	OX7S	0411066-05	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
7073	Dibromochloromethane	OX7S	0411066-05	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
7074	Dibromomethane	OX7S	0411066-05	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
7075	Dichlorodifluoromethane	OX7S	0411066-05	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
7076	Hexachlorobutadiene	OX7S	0411066-05	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
7077	Methylene chloride	OX7S	0411066-05	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
7078	Tetrachloroethene	OX7S	0411066-05	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
7079	trans-1,2-Dichloroethene	OX7S	0411066-05	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
7080	trans-1,3-Dichloropropene	OX7S	0411066-05	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
7081	Trichloroethene	OX7S	0411066-05	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
7082	Trichlorofluoromethane	OX7S	0411066-05	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
7083	Vinyl chloride	OX7S	0411066-05	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
7084	1,2,4-Trichlorobenzene	OX7S	0411066-05	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
7085	1,2-Dichlorobenzene	OX7S	0411066-05	11/11/04	8270	1,2-Dichlorobenzene	#N/A	1	U	ug/L
7086	1,3-Dichlorobenzene	OX7S	0411066-05	11/11/04	8270	1,3-Dichlorobenzene	#N/A	1	U	ug/L
7087	1,4-Dichlorobenzene	OX7S	0411066-05	11/11/04	8270	1,4-Dichlorobenzene	#N/A	1	U	ug/L
7088	2,3,4,6-Tetrachlorophenol	OX7S	0411066-05	11/11/04	8270	2,3,4,6-Tetrachlorophenol	#N/A	5.02	U	ug/L
7089	2,3,5,6-Tetrachlorophenol	OX7S	0411066-05	11/11/04	8270	2,3,5,6-Tetrachlorophenol	#N/A	**28.5**		ug/L
7090	2,4-Dichlorophenol	OX7S	0411066-05	11/11/04	8270	2,4-Dichlorophenol	#N/A	3.01	U	ug/L
7091	2,4-Dinitrophenol	OX7S	0411066-05	11/11/04	8270	2,4-Dinitrophenol	#N/A	10	U	ug/L
7092	2,4-Dinitrotoluene	OX7S	0411066-05	11/11/04	8270	2,4-Dinitrotoluene	#N/A	5.02	U	ug/L
7093	2,6-Dinitrotoluene	OX7S	0411066-05	11/11/04	8270	2,6-Dinitrotoluene	#N/A	5.02	U	ug/L
7094	2-Chloronaphthalene	OX7S	0411066-05	11/11/04	8270	2-Chloronaphthalene	#N/A	1	U	ug/L
7095	2-Chlorophenol	OX7S	0411066-05	11/11/04	8270	2-Chlorophenol	#N/A	1	U	ug/L
7096	2-Methylphenol	OX7S	0411066-05	11/11/04	8270	2-Methylphenol	#N/A	2.01	U	ug/L
7097	2-Nitroaniline	OX7S	0411066-05	11/11/04	8270	2-Nitroaniline	#N/A	5.02	U	ug/L
7098	2-Nitrophenol	OX7S	0411066-05	11/11/04	8270	2-Nitrophenol	#N/A	5.02	U	ug/L
7099	3,3'-Dichlorobenzidine	OX7S	0411066-05	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	5.02	U	ug/L
7100	3-Nitroaniline	OX7S	0411066-05	11/11/04	8270	3-Nitroaniline	#N/A	6.02	U	ug/L
7101	4,6-Dinitro-2-methylphenol	OX7S	0411066-05	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10	U	ug/L
7102	4-Bromophenyl phenyl ether	OX7S	0411066-05	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	1	U	ug/L
7103	4-Chloro-3-methylphenol	OX7S	0411066-05	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	2.01	U	ug/L
7104	4-Chloroaniline	OX7S	0411066-05	11/11/04	8270	4-Chloroaniline	#N/A	3.01	U	ug/L
7105	4-Chlorophenyl phenyl ether	OX7S	0411066-05	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	1	U	ug/L
7106	4-Nitroaniline	OX7S	0411066-05	11/11/04	8270	4-Nitroaniline	#N/A	5.02	U	ug/L
7107	4-Nitrophenol	OX7S	0411066-05	11/11/04	8270	4-Nitrophenol	#N/A	5.02	U	ug/L
7108	Benz(a)anthracene	OX7S	0411066-05	11/11/04	8270	Benz(a)anthracene	#N/A	1	U	ug/L
7109	Benzo(a)pyrene	OX7S	0411066-05	11/11/04	8270	Benzo(a)pyrene	#N/A	1	U	ug/L
7110	Benzo(b)fluoranthene	OX7S	0411066-05	11/11/04	8270	Benzo(b)fluoranthene	#N/A	1	U	ug/L
7111	Benzo(g,h,i)perylene	OX7S	0411066-05	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	1	U	ug/L
7112	Benzo(k)fluoranthene	OX7S	0411066-05	11/11/04	8270	Benzo(k)fluoranthene	#N/A	1	U	ug/L
7113	Benzyl Alcohol	OX7S	0411066-05	11/11/04	8270	Benzyl Alcohol	#N/A	5.02	U	ug/L
7114	Bis(2-chloroethoxy)methane	OX7S	0411066-05	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	1	U	ug/L
7115	Bis(2-chloroethyl)ether	OX7S	0411066-05	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	2.01	U	ug/L
7116	Bis(2-chloroisopropyl)ether	OX7S	0411066-05	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1	U	ug/L
7117	Butyl benzyl phthalate	OX7S	0411066-05	11/11/04	8270	Butyl benzyl phthalate	#N/A	1	U	ug/L
7118	Carbazole	OX7S	0411066-05	11/11/04	8270	Carbazole	#N/A	1	U	ug/L
7119	Chrysene	OX7S	0411066-05	11/11/04	8270	Chrysene	#N/A	1	U	ug/L
7120	Dibenz(a,h)anthracene	OX7S	0411066-05	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	1	U	ug/L
7121	Diethyl phthalate	OX7S	0411066-05	11/11/04	8270	Diethyl phthalate	#N/A	1	U	ug/L
7122	Dimethyl phthalate	OX7S	0411066-05	11/11/04	8270	Dimethyl phthalate	#N/A	1	U	ug/L
7123	Di-n-butyl phthalate	OX7S	0411066-05	11/11/04	8270	Di-n-butyl phthalate	#N/A	1	U	ug/L
7124	Di-n-octyl phthalate	OX7S	0411066-05	11/11/04	8270	Di-n-octyl phthalate	#N/A	1	U	ug/L
7125	Fluoranthene	OX7S	0411066-05	11/11/04	8270	Fluoranthene	#N/A	1	U	ug/L
7126	Hexachlorobenzene	OX7S	0411066-05	11/11/04	8270	Hexachlorobenzene	#N/A	1	U	ug/L
7127	Hexachlorobutadiene	OX7S	0411066-05	11/11/04	8270	Hexachlorobutadiene	#N/A	2.01	U	ug/L
7128	Hexachlorocyclopentadiene	OX7S	0411066-05	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	5.02	U	ug/L
7129	Hexachloroethane	OX7S	0411066-05	11/11/04	8270	Hexachloroethane	#N/A	2.01	U	ug/L
7130	Indeno(1,2,3-cd)pyrene	OX7S	0411066-05	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1	U	ug/L
7131	Nitrobenzene	OX7S	0411066-05	11/11/04	8270	Nitrobenzene	#N/A	1	U	ug/L
7132	N-Nitrosodimethylamine	OX7S	0411066-05	11/11/04	8270	N-Nitrosodimethylamine	#N/A	1	U	ug/L
7133	N-Nitrosodi-n-propylamine	OX7S	0411066-05	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.01	U	ug/L
7134	N-Nitrosodiphenylamine	OX7S	0411066-05	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	1	U	ug/L
7135	Phenanthrene	OX7S	0411066-05	11/11/04	8270	Phenanthrene	#N/A	1	U	ug/L
7136	Pyrene	OX7S	0411066-05	11/11/04	8270	Pyrene	#N/A	1	U	ug/L
7137	Pyridine	OX7S	0411066-05	11/11/04	8270	Pyridine	#N/A	5.02	U	ug/L
7138	Redox	OX7S	0411066-05	11/11/04	FIELD	Redox	#N/A	7.51		mV
7139	Turbidity	OX7S	0411066-05	11/11/04	FIELD	Turbidity	#N/A	0		ntu
7140	Ferrous Iron	OX7S	0411066-05	11/11/04	SM3500 FeD	Ferrous Iron	#N/A	**34.2**		mg/L
7141	Pentachlorophenol	OX8D	0411066-07	11/11/04	8270	Pentachlorophenol	3	4.78	U	ug/L
7142	Phenol	OX8D	0411066-07	11/11/04	8270	Phenol	13	1.91	U	ug/L
7143	3-&4-Methylphenol	OX8D	0411066-07	11/11/04	8270	3-&4-Methylphenol	14	9.55	U	ug/L
7144	Isophorone	OX8D	0411066-07	11/11/04	8270	Isophorone	15	0.955	U	ug/L
7145	2,4-Dimethylphenol	OX8D	0411066-07	11/11/04	8270	2,4-Dimethylphenol	16	2.87	U	ug/L
7146	Benzoic Acid	OX8D	0411066-07	11/11/04	8270	Benzoic Acid	17	19.1	U	ug/L
7147	Naphthalene	OX8D	0411066-07	11/11/04	8270	Naphthalene	18	0.955	U	ug/L
7148	2-Methylnaphthalene	OX8D	0411066-07	11/11/04	8270	2-Methylnaphthalene	19	0.955	U	ug/L
7149	2,4,6-Trichlorophenol	OX8D	0411066-07	11/11/04	8270	2,4,6-Trichlorophenol	20	4.78	U	ug/L
7150	2,4,5-Trichlorophenol	OX8D	0411066-07	11/11/04	8270	2,4,5-Trichlorophenol	21	4.78	U	ug/L
7151	Acenaphthene	OX8D	0411066-07	11/11/04	8270	Acenaphthene	22	0.955	U	ug/L
7152	Dibenzofuran	OX8D	0411066-07	11/11/04	8270	Dibenzofuran	23	0.955	U	ug/L
7153	Fluorene	OX8D	0411066-07	11/11/04	8270	Fluorene	24	0.955	U	ug/L
7154	Bis(2-ethylhexyl)phthalate	OX8D	0411066-07	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	**2.18**		ug/L

	A	B	C	D	E	F	G	H	I	J
7155	Acetone	OX8D	0411066-07	11/11/04	8260	Acetone	30	50	U	ug/L
7156	Carbon disulfide	OX8D	0411066-07	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
7157	2-Butanone	OX8D	0411066-07	11/11/04	8260	2-Butanone	32	10	U	ug/L
7158	Benzene	OX8D	0411066-07	11/11/04	8260	Benzene	33	0.3	U	ug/L
7159	Bromoform	OX8D	0411066-07	11/11/04	8260	Bromoform	34	1	U	ug/L
7160	Toluene	OX8D	0411066-07	11/11/04	8260	Toluene	35	1	U	ug/L
7161	Ethylbenzene	OX8D	0411066-07	11/11/04	8260	Ethylbenzene	36	1	U	ug/L
7162	Styrene	OX8D	0411066-07	11/11/04	8260	Styrene	37	1	U	ug/L
7163	m,p-Xylene	OX8D	0411066-07	11/11/04	8260	m,p-Xylene	38	2	U	ug/L
7164	o-Xylene	OX8D	0411066-07	11/11/04	8260	o-Xylene	39	1	U	ug/L
7165	1,3,5-Trimethylbenzene	OX8D	0411066-07	11/11/04	8260	1,3,5-Trimethylbenzene	40	1	U	ug/L
7166	1,2,4-Trimethylbenzene	OX8D	0411066-07	11/11/04	8260	1,2,4-Trimethylbenzene	41	**4.05**		ug/L
7167	Isopropylbenzene	OX8D	0411066-07	11/11/04	8260	Isopropylbenzene	42	**1.1**		ug/L
7168	n-Propylbenzene	OX8D	0411066-07	11/11/04	8260	n-Propylbenzene	43	1	U	ug/L
7169	tert-Butylbenzene	OX8D	0411066-07	11/11/04	8260	tert-Butylbenzene	44	1	U	ug/L
7170	sec-Butylbenzene	OX8D	0411066-07	11/11/04	8260	sec-Butylbenzene	45	1	U	ug/L
7171	4-Isopropyltoluene	OX8D	0411066-07	11/11/04	8260	4-Isopropyltoluene	46	1	U	ug/L
7172	n-Butylbenzene	OX8D	0411066-07	11/11/04	8260	n-Butylbenzene	47	1	U	ug/L
7173	Naphthalene	OX8D	0411066-07	11/11/04	8260	Naphthalene	48	1	U	ug/L
7174	Methyl tert-butyl ether	OX8D	0411066-07	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
7175	Arsenic	OX8D	0411066-07	11/11/04	6020	Arsenic	59	**0.0246**		ug/L
7176	Chromium	OX8D	0411066-07	11/11/04	6010	Chromium	60	**0.0305**		mg/L
7177	Copper	OX8D	0411066-07	11/11/04	6010	Copper	61	**0.0183**		mg/L
7178	Lead	OX8D	0411066-07	11/11/04	6020	Lead	62	**0.00723**		ug/L
7179	Nickel	OX8D	0411066-07	11/11/04	6010	Nickel	63	0.005	U	mg/L
7180	Zinc	OX8D	0411066-07	11/11/04	6010	Zinc	64	**0.034**		mg/L
7181	Total Dissolved Solids	OX8D	0411066-07	11/11/04	1601	Total Dissolved Solids	74	**329**		mg/L
7182	Chloride	OX8D	0411066-07	11/11/04	9056	Chloride	75	**6.71**		mg/L
7183	pH	OX8D	0411066-07	11/11/04	FIELD	pH	82	7.02		s.u.
7184	Temperature	OX8D	0411066-07	11/11/04	FIELD	Temperature	83	14.2		c
7185	Conductivity	OX8D	0411066-07	11/11/04	FIELD	Conductivity	84	410		us
7186	Dissolved oxygen	OX8D	0411066-07	11/11/04	FIELD	Dissolved oxygen	85	1.39		mg/l
7187	Selenium	OX8D	0411066-07	11/11/04	6010	Selenium	#N/A	0.02	U	mg/L
7188	1,1,1,2-Tetrachloroethane	OX8D	0411066-07	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
7189	1,1,1-Trichloroethane	OX8D	0411066-07	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
7190	1,1,2,2-Tetrachloroethane	OX8D	0411066-07	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
7191	1,1,2-Trichloroethane	OX8D	0411066-07	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
7192	1,1-Dichloroethane	OX8D	0411066-07	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
7193	1,1-Dichloroethene	OX8D	0411066-07	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
7194	1,1-Dichloropropene	OX8D	0411066-07	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
7195	1,2,3-Trichlorobenzene	OX8D	0411066-07	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
7196	1,2,3-Trichloropropane	OX8D	0411066-07	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
7197	1,2,4-Trichlorobenzene	OX8D	0411066-07	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
7198	1,2-Dibromo-3-chloropropane	OX8D	0411066-07	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
7199	1,2-Dibromoethane	OX8D	0411066-07	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
7200	1,2-Dichlorobenzene	OX8D	0411066-07	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
7201	1,2-Dichloroethane	OX8D	0411066-07	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
7202	1,2-Dichloropropane	OX8D	0411066-07	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
7203	1,3-Dichlorobenzene	OX8D	0411066-07	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
7204	1,3-Dichloropropane	OX8D	0411066-07	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
7205	1,4-Dichlorobenzene	OX8D	0411066-07	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
7206	2,2-Dichloropropane	OX8D	0411066-07	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
7207	2-Chlorotoluene	OX8D	0411066-07	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
7208	2-Hexanone	OX8D	0411066-07	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
7209	4-Chlorotoluene	OX8D	0411066-07	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
7210	4-Methyl-2-pentanone	OX8D	0411066-07	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
7211	Acrylonitrile	OX8D	0411066-07	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
7212	Bromobenzene	OX8D	0411066-07	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
7213	Bromochloromethane	OX8D	0411066-07	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
7214	Bromodichloromethane	OX8D	0411066-07	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
7215	Bromomethane	OX8D	0411066-07	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
7216	Carbon tetrachloride	OX8D	0411066-07	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
7217	Chlorobenzene	OX8D	0411066-07	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
7218	Chloroethane	OX8D	0411066-07	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
7219	Chloroform	OX8D	0411066-07	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
7220	Chloromethane	OX8D	0411066-07	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
7221	cis-1,2-Dichloroethene	OX8D	0411066-07	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
7222	cis-1,3-Dichloropropene	OX8D	0411066-07	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
7223	Dibromochloromethane	OX8D	0411066-07	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
7224	Dibromomethane	OX8D	0411066-07	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
7225	Dichlorodifluoromethane	OX8D	0411066-07	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
7226	Hexachlorobutadiene	OX8D	0411066-07	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
7227	Methylene chloride	OX8D	0411066-07	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L

	A	B	C	D	E	F	G	H	I	J
7228	Tetrachloroethene	OX8D	0411066-07	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
7229	trans-1,2-Dichloroethene	OX8D	0411066-07	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
7230	trans-1,3-Dichloropropene	OX8D	0411066-07	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
7231	Trichloroethene	OX8D	0411066-07	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
7232	Trichlorofluoromethane	OX8D	0411066-07	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
7233	Vinyl chloride	OX8D	0411066-07	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
7234	1,2,4-Trichlorobenzene	OX8D	0411066-07	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	0.955	U	ug/L
7235	1,2-Dichlorobenzene	OX8D	0411066-07	11/11/04	8270	1,2-Dichlorobenzene	#N/A	0.955	U	ug/L
7236	1,3-Dichlorobenzene	OX8D	0411066-07	11/11/04	8270	1,3-Dichlorobenzene	#N/A	0.955	U	ug/L
7237	1,4-Dichlorobenzene	OX8D	0411066-07	11/11/04	8270	1,4-Dichlorobenzene	#N/A	0.955	U	ug/L
7238	2,3,4,6-Tetrachlorophenol	OX8D	0411066-07	11/11/04	8270	2,3,4,6-Tetrachlorophenol	#N/A	4.78	U	ug/L
7239	2,3,5,6-Tetrachlorophenol	OX8D	0411066-07	11/11/04	8270	2,3,5,6-Tetrachlorophenol	#N/A	4.78	U	ug/L
7240	2,4-Dichlorophenol	OX8D	0411066-07	11/11/04	8270	2,4-Dichlorophenol	#N/A	2.87	U	ug/L
7241	2,4-Dinitrophenol	OX8D	0411066-07	11/11/04	8270	2,4-Dinitrophenol	#N/A	9.55	U	ug/L
7242	2,4-Dinitrotoluene	OX8D	0411066-07	11/11/04	8270	2,4-Dinitrotoluene	#N/A	4.78	U	ug/L
7243	2,6-Dinitrotoluene	OX8D	0411066-07	11/11/04	8270	2,6-Dinitrotoluene	#N/A	4.78	U	ug/L
7244	2-Chloronaphthalene	OX8D	0411066-07	11/11/04	8270	2-Chloronaphthalene	#N/A	0.955	U	ug/L
7245	2-Chlorophenol	OX8D	0411066-07	11/11/04	8270	2-Chlorophenol	#N/A	0.955	U	ug/L
7246	2-Methylphenol	OX8D	0411066-07	11/11/04	8270	2-Methylphenol	#N/A	1.91	U	ug/L
7247	2-Nitroaniline	OX8D	0411066-07	11/11/04	8270	2-Nitroaniline	#N/A	4.78	U	ug/L
7248	2-Nitrophenol	OX8D	0411066-07	11/11/04	8270	2-Nitrophenol	#N/A	4.78	U	ug/L
7249	3,3'-Dichlorobenzidine	OX8D	0411066-07	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	4.78	U	ug/L
7250	3-Nitroaniline	OX8D	0411066-07	11/11/04	8270	3-Nitroaniline	#N/A	5.73	U	ug/L
7251	4,6-Dinitro-2-methylphenol	OX8D	0411066-07	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.55	U	ug/L
7252	4-Bromophenyl phenyl ether	OX8D	0411066-07	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	0.955	U	ug/L
7253	4-Chloro-3-methylphenol	OX8D	0411066-07	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	1.91	U	ug/L
7254	4-Chloroaniline	OX8D	0411066-07	11/11/04	8270	4-Chloroaniline	#N/A	2.87	U	ug/L
7255	4-Chlorophenyl phenyl ether	OX8D	0411066-07	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.955	U	ug/L
7256	4-Nitroaniline	OX8D	0411066-07	11/11/04	8270	4-Nitroaniline	#N/A	4.78	U	ug/L
7257	4-Nitrophenol	OX8D	0411066-07	11/11/04	8270	4-Nitrophenol	#N/A	4.78	U	ug/L
7258	Benz(a)anthracene	OX8D	0411066-07	11/11/04	8270	Benz(a)anthracene	#N/A	0.955	U	ug/L
7259	Benzo(a)pyrene	OX8D	0411066-07	11/11/04	8270	Benzo(a)pyrene	#N/A	0.955	U	ug/L
7260	Benzo(b)fluoranthene	OX8D	0411066-07	11/11/04	8270	Benzo(b)fluoranthene	#N/A	0.955	U	ug/L
7261	Benzo(g,h,i)perylene	OX8D	0411066-07	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	0.955	U	ug/L
7262	Benzo(k)fluoranthene	OX8D	0411066-07	11/11/04	8270	Benzo(k)fluoranthene	#N/A	0.955	U	ug/L
7263	Benzyl Alcohol	OX8D	0411066-07	11/11/04	8270	Benzyl Alcohol	#N/A	4.78	U	ug/L
7264	Bis(2-chloroethoxy)methane	OX8D	0411066-07	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.955	U	ug/L
7265	Bis(2-chloroethyl)ether	OX8D	0411066-07	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	1.91	U	ug/L
7266	Bis(2-chloroisopropyl)ether	OX8D	0411066-07	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.955	U	ug/L
7267	Butyl benzyl phthalate	OX8D	0411066-07	11/11/04	8270	Butyl benzyl phthalate	#N/A	0.955	U	ug/L
7268	Carbazole	OX8D	0411066-07	11/11/04	8270	Carbazole	#N/A	0.955	U	ug/L
7269	Chrysene	OX8D	0411066-07	11/11/04	8270	Chrysene	#N/A	0.955	U	ug/L
7270	Dibenz(a,h)anthracene	OX8D	0411066-07	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	0.955	U	ug/L
7271	Diethyl phthalate	OX8D	0411066-07	11/11/04	8270	Diethyl phthalate	#N/A	0.955	U	ug/L
7272	Dimethyl phthalate	OX8D	0411066-07	11/11/04	8270	Dimethyl phthalate	#N/A	0.955	U	ug/L
7273	Di-n-butyl phthalate	OX8D	0411066-07	11/11/04	8270	Di-n-butyl phthalate	#N/A	0.955	U	ug/L
7274	Di-n-octyl phthalate	OX8D	0411066-07	11/11/04	8270	Di-n-octyl phthalate	#N/A	0.955	U	ug/L
7275	Fluoranthene	OX8D	0411066-07	11/11/04	8270	Fluoranthene	#N/A	0.955	U	ug/L
7276	Hexachlorobenzene	OX8D	0411066-07	11/11/04	8270	Hexachlorobenzene	#N/A	0.955	U	ug/L
7277	Hexachlorobutadiene	OX8D	0411066-07	11/11/04	8270	Hexachlorobutadiene	#N/A	1.91	U	ug/L
7278	Hexachlorocyclopentadiene	OX8D	0411066-07	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	4.78	U	ug/L
7279	Hexachloroethane	OX8D	0411066-07	11/11/04	8270	Hexachloroethane	#N/A	1.91	U	ug/L
7280	Indeno(1,2,3-cd)pyrene	OX8D	0411066-07	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.955	U	ug/L
7281	Nitrobenzene	OX8D	0411066-07	11/11/04	8270	Nitrobenzene	#N/A	0.955	U	ug/L
7282	N-Nitrosodimethylamine	OX8D	0411066-07	11/11/04	8270	N-Nitrosodimethylamine	#N/A	0.955	U	ug/L
7283	N-Nitrosodi-n-propylamine	OX8D	0411066-07	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.91	U	ug/L
7284	N-Nitrosodiphenylamine	OX8D	0411066-07	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	0.955	U	ug/L
7285	Phenanthrene	OX8D	0411066-07	11/11/04	8270	Phenanthrene	#N/A	0.955	U	ug/L
7286	Pyrene	OX8D	0411066-07	11/11/04	8270	Pyrene	#N/A	0.955	U	ug/L
7287	Pyridine	OX8D	0411066-07	11/11/04	8270	Pyridine	#N/A	4.78	U	ug/L
7288	Redox	OX8D	0411066-07	11/11/04	FIELD	Redox	#N/A	7.16		mV
7289	Turbidity	OX8D	0411066-07	11/11/04	FIELD	Turbidity	#N/A	20		ntu
7290	Ferrous Iron	OX8D	0411066-07	11/11/04	SM3500 FeD	Ferrous Iron	#N/A	**37.6**		mg/L
7291	Pentachlorophenol	OX8S	0411066-06	11/11/04	8270	Pentachlorophenol	3	**55**		ug/L
7292	Phenol	OX8S	0411066-06	11/11/04	8270	Phenol	13	1.93	U	ug/L
7293	3-&4-Methylphenol	OX8S	0411066-06	11/11/04	8270	3-&4-Methylphenol	14	9.64	U	ug/L
7294	Isophorone	OX8S	0411066-06	11/11/04	8270	Isophorone	15	0.964	U	ug/L
7295	2,4-Dimethylphenol	OX8S	0411066-06	11/11/04	8270	2,4-Dimethylphenol	16	2.89	U	ug/L
7296	Benzoic Acid	OX8S	0411066-06	11/11/04	8270	Benzoic Acid	17	19.3	U	ug/L
7297	Naphthalene	OX8S	0411066-06	11/11/04	8270	Naphthalene	18	0.964	U	ug/L
7298	2-Methylnaphthalene	OX8S	0411066-06	11/11/04	8270	2-Methylnaphthalene	19	0.964	U	ug/L
7299	2,4,6-Trichlorophenol	OX8S	0411066-06	11/11/04	8270	2,4,6-Trichlorophenol	20	4.82	U	ug/L
7300	2,4,5-Trichlorophenol	OX8S	0411066-06	11/11/04	8270	2,4,5-Trichlorophenol	21	4.82	U	ug/L

	A	B	C	D	E	F	G	H	I	J
7301	Acenaphthene	OX8S	0411066-06	11/11/04	8270	Acenaphthene	22	0.964	U	ug/L
7302	Dibenzofuran	OX8S	0411066-06	11/11/04	8270	Dibenzofuran	23	0.964	U	ug/L
7303	Fluorene	OX8S	0411066-06	11/11/04	8270	Fluorene	24	0.964	U	ug/L
7304	Bis(2-ethylhexyl)phthalate	OX8S	0411066-06	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	0.964	U	ug/L
7305	Acetone	OX8S	0411066-06	11/11/04	8260	Acetone	30	50	U	ug/L
7306	Carbon disulfide	OX8S	0411066-06	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
7307	2-Butanone	OX8S	0411066-06	11/11/04	8260	2-Butanone	32	10	U	ug/L
7308	Benzene	OX8S	0411066-06	11/11/04	8260	Benzene	33	0.3	U	ug/L
7309	Bromoform	OX8S	0411066-06	11/11/04	8260	Bromoform	34	1	U	ug/L
7310	Toluene	OX8S	0411066-06	11/11/04	8260	Toluene	35	1	U	ug/L
7311	Ethylbenzene	OX8S	0411066-06	11/11/04	8260	Ethylbenzene	36	**6**		ug/L
7312	Styrene	OX8S	0411066-06	11/11/04	8260	Styrene	37	1	U	ug/L
7313	m,p-Xylene	OX8S	0411066-06	11/11/04	8260	m,p-Xylene	38	**2.19**		ug/L
7314	o-Xylene	OX8S	0411066-06	11/11/04	8260	o-Xylene	39	**20.1**		ug/L
7315	1,3,5-Trimethylbenzene	OX8S	0411066-06	11/11/04	8260	1,3,5-Trimethylbenzene	40	**8.28**		ug/L
7316	1,2,4-Trimethylbenzene	OX8S	0411066-06	11/11/04	8260	1,2,4-Trimethylbenzene	41	**107**		ug/L
7317	Isopropylbenzene	OX8S	0411066-06	11/11/04	8260	Isopropylbenzene	42	**11.8**		ug/L
7318	n-Propylbenzene	OX8S	0411066-06	11/11/04	8260	n-Propylbenzene	43	**14.8**		ug/L
7319	tert-Butylbenzene	OX8S	0411066-06	11/11/04	8260	tert-Butylbenzene	44	**1.53**		ug/L
7320	sec-Butylbenzene	OX8S	0411066-06	11/11/04	8260	sec-Butylbenzene	45	**10.1**		ug/L
7321	4-Isopropyltoluene	OX8S	0411066-06	11/11/04	8260	4-Isopropyltoluene	46	**1.55**		ug/L
7322	n-Butylbenzene	OX8S	0411066-06	11/11/04	8260	n-Butylbenzene	47	**2.13**		ug/L
7323	Naphthalene	OX8S	0411066-06	11/11/04	8260	Naphthalene	48	1	U	ug/L
7324	Methyl tert-butyl ether	OX8S	0411066-06	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
7325	Arsenic	OX8S	0411066-06	11/11/04	6020	Arsenic	59	**0.0259**		ug/L
7326	Chromium	OX8S	0411066-06	11/11/04	6010	Chromium	60	**0.0136**		mg/L
7327	Copper	OX8S	0411066-06	11/11/04	6010	Copper	61	0.01	U	mg/L
7328	Lead	OX8S	0411066-06	11/11/04	6020	Lead	62	**0.00104**		ug/L
7329	Nickel	OX8S	0411066-06	11/11/04	6010	Nickel	63	**0.0818**		mg/L
7330	Zinc	OX8S	0411066-06	11/11/04	6010	Zinc	64	**0.0139**		mg/L
7331	Total Dissolved Solids	OX8S	0411066-06	11/11/04	1601	Total Dissolved Solids	74	**365**		mg/L
7332	Chloride	OX8S	0411066-06	11/11/04	9056	Chloride	75	**3.76**		mg/L
7333	pH	OX8S	0411066-06	11/11/04	FIELD	pH	82	6.59		s.u.
7334	Temperature	OX8S	0411066-06	11/11/04	FIELD	Temperature	83	16.3		c
7335	Conductivity	OX8S	0411066-06	11/11/04	FIELD	Conductivity	84	465		us
7336	Dissolved oxygen	OX8S	0411066-06	11/11/04	FIELD	Dissolved oxygen	85	0.61		mg/l
7337	Selenium	OX8S	0411066-06	11/11/04	6010	Selenium	#N/A	0.02	U	mg/L
7338	1,1,1,2-Tetrachloroethane	OX8S	0411066-06	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
7339	1,1,1-Trichloroethane	OX8S	0411066-06	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
7340	1,1,2,2-Tetrachloroethane	OX8S	0411066-06	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
7341	1,1,2-Trichloroethane	OX8S	0411066-06	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
7342	1,1-Dichloroethane	OX8S	0411066-06	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
7343	1,1-Dichloroethene	OX8S	0411066-06	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
7344	1,1-Dichloropropene	OX8S	0411066-06	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
7345	1,2,3-Trichlorobenzene	OX8S	0411066-06	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
7346	1,2,3-Trichloropropane	OX8S	0411066-06	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
7347	1,2,4-Trichlorobenzene	OX8S	0411066-06	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
7348	1,2-Dibromo-3-chloropropane	OX8S	0411066-06	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
7349	1,2-Dibromoethane	OX8S	0411066-06	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
7350	1,2-Dichlorobenzene	OX8S	0411066-06	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
7351	1,2-Dichloroethane	OX8S	0411066-06	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
7352	1,2-Dichloropropane	OX8S	0411066-06	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
7353	1,3-Dichlorobenzene	OX8S	0411066-06	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
7354	1,3-Dichloropropane	OX8S	0411066-06	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
7355	1,4-Dichlorobenzene	OX8S	0411066-06	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
7356	2,2-Dichloropropane	OX8S	0411066-06	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
7357	2-Chlorotoluene	OX8S	0411066-06	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
7358	2-Hexanone	OX8S	0411066-06	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
7359	4-Chlorotoluene	OX8S	0411066-06	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
7360	4-Methyl-2-pentanone	OX8S	0411066-06	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
7361	Acrylonitrile	OX8S	0411066-06	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
7362	Bromobenzene	OX8S	0411066-06	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
7363	Bromochloromethane	OX8S	0411066-06	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
7364	Bromodichloromethane	OX8S	0411066-06	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
7365	Bromomethane	OX8S	0411066-06	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
7366	Carbon tetrachloride	OX8S	0411066-06	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
7367	Chlorobenzene	OX8S	0411066-06	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
7368	Chloroethane	OX8S	0411066-06	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
7369	Chloroform	OX8S	0411066-06	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
7370	Chloromethane	OX8S	0411066-06	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
7371	cis-1,2-Dichloroethene	OX8S	0411066-06	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
7372	cis-1,3-Dichloropropene	OX8S	0411066-06	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
7373	Dibromochloromethane	OX8S	0411066-06	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
7374	Dibromomethane	OX8S	0411066-06	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
7375	Dichlorodifluoromethane	OX8S	0411066-06	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
7376	Hexachlorobutadiene	OX8S	0411066-06	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
7377	Methylene chloride	OX8S	0411066-06	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
7378	Tetrachloroethene	OX8S	0411066-06	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
7379	trans-1,2-Dichloroethene	OX8S	0411066-06	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
7380	trans-1,3-Dichloropropene	OX8S	0411066-06	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
7381	Trichloroethene	OX8S	0411066-06	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
7382	Trichlorofluoromethane	OX8S	0411066-06	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
7383	Vinyl chloride	OX8S	0411066-06	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
7384	1,2,4-Trichlorobenzene	OX8S	0411066-06	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	0.964	U	ug/L
7385	1,2-Dichlorobenzene	OX8S	0411066-06	11/11/04	8270	1,2-Dichlorobenzene	#N/A	0.964	U	ug/L
7386	1,3-Dichlorobenzene	OX8S	0411066-06	11/11/04	8270	1,3-Dichlorobenzene	#N/A	0.964	U	ug/L
7387	1,4-Dichlorobenzene	OX8S	0411066-06	11/11/04	8270	1,4-Dichlorobenzene	#N/A	0.964	U	ug/L
7388	2,3,4,6-Tetrachlorophenol	OX8S	0411066-06	11/11/04	8270	2,3,4,6-Tetrachlorophenol	#N/A	4.82	U	ug/L
7389	2,3,5,6-Tetrachlorophenol	OX8S	0411066-06	11/11/04	8270	2,3,5,6-Tetrachlorophenol	#N/A	**74.9**		ug/L
7390	2,4-Dichlorophenol	OX8S	0411066-06	11/11/04	8270	2,4-Dichlorophenol	#N/A	2.89	U	ug/L
7391	2,4-Dinitrophenol	OX8S	0411066-06	11/11/04	8270	2,4-Dinitrophenol	#N/A	9.64	U	ug/L
7392	2,4-Dinitrotoluene	OX8S	0411066-06	11/11/04	8270	2,4-Dinitrotoluene	#N/A	4.82	U	ug/L
7393	2,6-Dinitrotoluene	OX8S	0411066-06	11/11/04	8270	2,6-Dinitrotoluene	#N/A	4.82	U	ug/L
7394	2-Chloronaphthalene	OX8S	0411066-06	11/11/04	8270	2-Chloronaphthalene	#N/A	0.964	U	ug/L
7395	2-Chlorophenol	OX8S	0411066-06	11/11/04	8270	2-Chlorophenol	#N/A	0.964	U	ug/L
7396	2-Methylphenol	OX8S	0411066-06	11/11/04	8270	2-Methylphenol	#N/A	1.93	U	ug/L
7397	2-Nitroaniline	OX8S	0411066-06	11/11/04	8270	2-Nitroaniline	#N/A	4.82	U	ug/L
7398	2-Nitrophenol	OX8S	0411066-06	11/11/04	8270	2-Nitrophenol	#N/A	4.82	U	ug/L
7399	3,3'-Dichlorobenzidine	OX8S	0411066-06	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	4.82	U	ug/L
7400	3-Nitroaniline	OX8S	0411066-06	11/11/04	8270	3-Nitroaniline	#N/A	5.79	U	ug/L
7401	4,6-Dinitro-2-methylphenol	OX8S	0411066-06	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.64	U	ug/L
7402	4-Bromophenyl phenyl ether	OX8S	0411066-06	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	0.964	U	ug/L
7403	4-Chloro-3-methylphenol	OX8S	0411066-06	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	1.93	U	ug/L
7404	4-Chloroaniline	OX8S	0411066-06	11/11/04	8270	4-Chloroaniline	#N/A	2.89	U	ug/L
7405	4-Chlorophenyl phenyl ether	OX8S	0411066-06	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.964	U	ug/L
7406	4-Nitroaniline	OX8S	0411066-06	11/11/04	8270	4-Nitroaniline	#N/A	4.82	U	ug/L
7407	4-Nitrophenol	OX8S	0411066-06	11/11/04	8270	4-Nitrophenol	#N/A	4.82	U	ug/L
7408	Benz(a)anthracene	OX8S	0411066-06	11/11/04	8270	Benz(a)anthracene	#N/A	0.964	U	ug/L
7409	Benzo(a)pyrene	OX8S	0411066-06	11/11/04	8270	Benzo(a)pyrene	#N/A	0.964	U	ug/L
7410	Benzo(b)fluoranthene	OX8S	0411066-06	11/11/04	8270	Benzo(b)fluoranthene	#N/A	0.964	U	ug/L
7411	Benzo(g,h,i)perylene	OX8S	0411066-06	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	0.964	U	ug/L
7412	Benzo(k)fluoranthene	OX8S	0411066-06	11/11/04	8270	Benzo(k)fluoranthene	#N/A	0.964	U	ug/L
7413	Benzyl Alcohol	OX8S	0411066-06	11/11/04	8270	Benzyl Alcohol	#N/A	4.82	U	ug/L
7414	Bis(2-chloroethoxy)methane	OX8S	0411066-06	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.964	U	ug/L
7415	Bis(2-chloroethyl)ether	OX8S	0411066-06	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	1.93	U	ug/L
7416	Bis(2-chloroisopropyl)ether	OX8S	0411066-06	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.964	U	ug/L
7417	Butyl benzyl phthalate	OX8S	0411066-06	11/11/04	8270	Butyl benzyl phthalate	#N/A	0.964	U	ug/L
7418	Carbazole	OX8S	0411066-06	11/11/04	8270	Carbazole	#N/A	0.964	U	ug/L
7419	Chrysene	OX8S	0411066-06	11/11/04	8270	Chrysene	#N/A	0.964	U	ug/L
7420	Dibenz(a,h)anthracene	OX8S	0411066-06	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	0.964	U	ug/L
7421	Diethyl phthalate	OX8S	0411066-06	11/11/04	8270	Diethyl phthalate	#N/A	0.964	U	ug/L
7422	Dimethyl phthalate	OX8S	0411066-06	11/11/04	8270	Dimethyl phthalate	#N/A	0.964	U	ug/L
7423	Di-n-butyl phthalate	OX8S	0411066-06	11/11/04	8270	Di-n-butyl phthalate	#N/A	0.964	U	ug/L
7424	Di-n-octyl phthalate	OX8S	0411066-06	11/11/04	8270	Di-n-octyl phthalate	#N/A	0.964	U	ug/L
7425	Fluoranthene	OX8S	0411066-06	11/11/04	8270	Fluoranthene	#N/A	0.964	U	ug/L
7426	Hexachlorobenzene	OX8S	0411066-06	11/11/04	8270	Hexachlorobenzene	#N/A	0.964	U	ug/L
7427	Hexachlorobutadiene	OX8S	0411066-06	11/11/04	8270	Hexachlorobutadiene	#N/A	1.93	U	ug/L
7428	Hexachlorocyclopentadiene	OX8S	0411066-06	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	4.82	U	ug/L
7429	Hexachloroethane	OX8S	0411066-06	11/11/04	8270	Hexachloroethane	#N/A	1.93	U	ug/L
7430	Indeno(1,2,3-cd)pyrene	OX8S	0411066-06	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.964	U	ug/L
7431	Nitrobenzene	OX8S	0411066-06	11/11/04	8270	Nitrobenzene	#N/A	0.964	U	ug/L
7432	N-Nitrosodimethylamine	OX8S	0411066-06	11/11/04	8270	N-Nitrosodimethylamine	#N/A	0.964	U	ug/L
7433	N-Nitrosodi-n-propylamine	OX8S	0411066-06	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.93	U	ug/L
7434	N-Nitrosodiphenylamine	OX8S	0411066-06	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	0.964	U	ug/L
7435	Phenanthrene	OX8S	0411066-06	11/11/04	8270	Phenanthrene	#N/A	0.964	U	ug/L
7436	Pyrene	OX8S	0411066-06	11/11/04	8270	Pyrene	#N/A	0.964	U	ug/L
7437	Pyridine	OX8S	0411066-06	11/11/04	8270	Pyridine	#N/A	4.82	U	ug/L
7438	Redox	OX8S	0411066-06	11/11/04	FIELD	Redox	#N/A	7.09		mV
7439	Turbidity	OX8S	0411066-06	11/11/04	FIELD	Turbidity	#N/A	0		ntu
7440	Ferrous Iron	OX8S	0411066-06	11/11/04	SM3500 FeD	Ferrous Iron	#N/A	**44.7**		mg/L
7441	Pentachlorophenol	RW1	0411066-11	11/11/04	8270	Pentachlorophenol	3	**123**		ug/L
7442	Phenol	RW1	0411066-11	11/11/04	8270	Phenol	13	2.01	U	ug/L
7443	3-&4-Methylphenol	RW1	0411066-11	11/11/04	8270	3-&4-Methylphenol	14	10.1	U	ug/L
7444	Isophorone	RW1	0411066-11	11/11/04	8270	Isophorone	15	1.01	U	ug/L
7445	2,4-Dimethylphenol	RW1	0411066-11	11/11/04	8270	2,4-Dimethylphenol	16	3.02	U	ug/L
7446	Benzoic Acid	RW1	0411066-11	11/11/04	8270	Benzoic Acid	17	20.1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
7447	Naphthalene	RW1	0411066-11	11/11/04	8270	Naphthalene	18	**3.61**		ug/L
7448	2-Methylnaphthalene	RW1	0411066-11	11/11/04	8270	2-Methylnaphthalene	19	**1.02**		ug/L
7449	2,4,6-Trichlorophenol	RW1	0411066-11	11/11/04	8270	2,4,6-Trichlorophenol	20	**23.4**		ug/L
7450	2,4,5-Trichlorophenol	RW1	0411066-11	11/11/04	8270	2,4,5-Trichlorophenol	21	5.03	U	ug/L
7451	Acenaphthene	RW1	0411066-11	11/11/04	8270	Acenaphthene	22	1.01	U	ug/L
7452	Dibenzofuran	RW1	0411066-11	11/11/04	8270	Dibenzofuran	23	1.01	U	ug/L
7453	Fluorene	RW1	0411066-11	11/11/04	8270	Fluorene	24	1.01	U	ug/L
7454	Bis(2-ethylhexyl)phthalate	RW1	0411066-11	11/11/04	8270	Bis(2-ethylhexyl)phthalate	26	1.01	U	ug/L
7455	Acetone	RW1	0411066-11	11/11/04	8260	Acetone	30	50	U	ug/L
7456	Carbon disulfide	RW1	0411066-11	11/11/04	8260	Carbon disulfide	31	2	U	ug/L
7457	2-Butanone	RW1	0411066-11	11/11/04	8260	2-Butanone	32	10	U	ug/L
7458	Benzene	RW1	0411066-11	11/11/04	8260	Benzene	33	**6.12**		ug/L
7459	Bromoform	RW1	0411066-11	11/11/04	8260	Bromoform	34	1	U	ug/L
7460	Toluene	RW1	0411066-11	11/11/04	8260	Toluene	35	1	U	ug/L
7461	Ethylbenzene	RW1	0411066-11	11/11/04	8260	Ethylbenzene	36	**31.8**		ug/L
7462	Styrene	RW1	0411066-11	11/11/04	8260	Styrene	37	1	U	ug/L
7463	m,p-Xylene	RW1	0411066-11	11/11/04	8260	m,p-Xylene	38	**40.3**		ug/L
7464	o-Xylene	RW1	0411066-11	11/11/04	8260	o-Xylene	39	**47.8**		ug/L
7465	1,3,5-Trimethylbenzene	RW1	0411066-11	11/11/04	8260	1,3,5-Trimethylbenzene	40	**22.5**		ug/L
7466	1,2,4-Trimethylbenzene	RW1	0411066-11	11/11/04	8260	1,2,4-Trimethylbenzene	41	**84.4**		ug/L
7467	Isopropylbenzene	RW1	0411066-11	11/11/04	8260	Isopropylbenzene	42	**17**		ug/L
7468	n-Propylbenzene	RW1	0411066-11	11/11/04	8260	n-Propylbenzene	43	**17.2**		ug/L
7469	tert-Butylbenzene	RW1	0411066-11	11/11/04	8260	tert-Butylbenzene	44	**1.8**		ug/L
7470	sec-Butylbenzene	RW1	0411066-11	11/11/04	8260	sec-Butylbenzene	45	**4.37**		ug/L
7471	4-Isopropyltoluene	RW1	0411066-11	11/11/04	8260	4-Isopropyltoluene	46	**2.08**		ug/L
7472	n-Butylbenzene	RW1	0411066-11	11/11/04	8260	n-Butylbenzene	47	**2**		ug/L
7473	Naphthalene	RW1	0411066-11	11/11/04	8260	Naphthalene	48	**13**		ug/L
7474	Methyl tert-butyl ether	RW1	0411066-11	11/11/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
7475	Arsenic	RW1	0411066-11	11/11/04	6020	Arsenic	59	**0.00526**		ug/L
7476	Chromium	RW1	0411066-11	11/11/04	6010	Chromium	60	**0.0244**		mg/L
7477	Copper	RW1	0411066-11	11/11/04	6010	Copper	61	0.01	U	mg/L
7478	Lead	RW1	0411066-11	11/11/04	6020	Lead	62	**0.00434**		ug/L
7479	Nickel	RW1	0411066-11	11/11/04	6010	Nickel	63	0.005	U	mg/L
7480	Zinc	RW1	0411066-11	11/11/04	6010	Zinc	64	**0.0394**		mg/L
7481	Total Dissolved Solids	RW1	0411066-11	11/11/04	1601	Total Dissolved Solids	74	**437**		mg/L
7482	Chloride	RW1	0411066-11	11/11/04	9056	Chloride	75	**5.55**		mg/L
7483	pH	RW1	0411066-11	11/11/04	FIELD	pH	82	6.44		s.u.
7484	Temperature	RW1	0411066-11	11/11/04	FIELD	Temperature	83	16		c
7485	Conductivity	RW1	0411066-11	11/11/04	FIELD	Conductivity	84	546		us
7486	Dissolved oxygen	RW1	0411066-11	11/11/04	FIELD	Dissolved oxygen	85	1.53		mg/l
7487	2,3,7,8-TCDF	RW1	E0401188-003	11/11/04	8290	2,3,7,8-TCDF	89	0.000947	UJ	ng/L
7488	Total TCDF	RW1	E0401188-003	11/11/04	8290	Total TCDF	90	**0.007227**		ng/L
7489	2,3,7,8-TCDD	RW1	E0401188-003	11/11/04	8290	2,3,7,8-TCDD	91	0.000371	UJ	ng/L
7490	Total TCDD	RW1	E0401188-003	11/11/04	8290	Total TCDD	92	**0.012783**		ng/L
7491	1,2,3,7,8-PeCDF	RW1	E0401188-003	11/11/04	8290	1,2,3,7,8-PeCDF	93	0.000584	U	ng/L
7492	2,3,4,7,8-PeCDF	RW1	E0401188-003	11/11/04	8290	2,3,4,7,8-PeCDF	94	0.000546	U	ng/L
7493	Total PeCDF	RW1	E0401188-003	11/11/04	8290	Total PeCDF	95	**0.013908**		ng/L
7494	1,2,3,7,8-PeCDD	RW1	E0401188-003	11/11/04	8290	1,2,3,7,8-PeCDD	96	0.000674	U	ng/L
7495	Total PeCDD	RW1	E0401188-003	11/11/04	8290	Total PeCDD	97	**0.018875**		ng/L
7496	1,2,3,4,7,8-HxCDF	RW1	E0401188-003	11/11/04	8290	1,2,3,4,7,8-HxCDF	98	0.00212	UJ	ng/L
7497	1,2,3,6,7,8-HxCDF	RW1	E0401188-003	11/11/04	8290	1,2,3,6,7,8-HxCDF	99	0.001554	UJ	ng/L
7498	2,3,4,6,7,8-HxCDF	RW1	E0401188-003	11/11/04	8290	2,3,4,6,7,8-HxCDF	100	**0.001781**	J	ng/L
7499	1,2,3,7,8,9-HxCDF	RW1	E0401188-003	11/11/04	8290	1,2,3,7,8,9-HxCDF	101	0.000289	U	ng/L
7500	Total HxCDF	RW1	E0401188-003	11/11/04	8290	Total HxCDF	102	**0.06799**		ng/L
7501	1,2,3,4,7,8-HxCDD	RW1	E0401188-003	11/11/04	8290	1,2,3,4,7,8-HxCDD	103	0.000437	U	ng/L
7502	1,2,3,6,7,8-HxCDD	RW1	E0401188-003	11/11/04	8290	1,2,3,6,7,8-HxCDD	104	**0.006886**	J	ng/L
7503	1,2,3,7,8,9-HxCDD	RW1	E0401188-003	11/11/04	8290	1,2,3,7,8,9-HxCDD	105	0.001768	UJ	ng/L
7504	Total HxCDD	RW1	E0401188-003	11/11/04	8290	Total HxCDD	106	**0.099208**		ng/L
7505	1,2,3,4,6,7,8-HpCDF	RW1	E0401188-003	11/11/04	8290	1,2,3,4,6,7,8-HpCDF	107	**0.044978**		ng/L
7506	1,2,3,4,7,8,9-HpCDF	RW1	E0401188-003	11/11/04	8290	1,2,3,4,7,8,9-HpCDF	108	**0.003391**	J	ng/L
7507	Total HpCDF	RW1	E0401188-003	11/11/04	8290	Total HpCDF	109	**0.19351**		ng/L
7508	1,2,3,4,6,7,8-HpCDD	RW1	E0401188-003	11/11/04	8290	1,2,3,4,6,7,8-HpCDD	110	**0.278831**	J	ng/L
7509	Total HpCDD	RW1	E0401188-003	11/11/04	8290	Total HpCDD	111	**0.493796**		ng/L
7510	OCDF	RW1	E0401188-003	11/11/04	8290	OCDF	112	**0.237755**		ng/L
7511	OCDD	RW1	E0401188-003	11/11/04	8290	OCDD	113	**2.58707**		ng/L
7512	Selenium	RW1	0411066-11	11/11/04	6010	Selenium	#N/A	0.02	U	mg/L
7513	1,1,1,2-Tetrachloroethane	RW1	0411066-11	11/11/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
7514	1,1,1-Trichloroethane	RW1	0411066-11	11/11/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
7515	1,1,2,2-Tetrachloroethane	RW1	0411066-11	11/11/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
7516	1,1,2-Trichloroethane	RW1	0411066-11	11/11/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
7517	1,1-Dichloroethane	RW1	0411066-11	11/11/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
7518	1,1-Dichloroethene	RW1	0411066-11	11/11/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
7519	1,1-Dichloropropene	RW1	0411066-11	11/11/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L

	A	B	C	D	E	F	G	H	I	J
7520	1,2,3-Trichlorobenzene	RW1	0411066-11	11/11/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
7521	1,2,3-Trichloropropane	RW1	0411066-11	11/11/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
7522	1,2,4-Trichlorobenzene	RW1	0411066-11	11/11/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
7523	1,2-Dibromo-3-chloropropane	RW1	0411066-11	11/11/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
7524	1,2-Dibromoethane	RW1	0411066-11	11/11/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
7525	1,2-Dichlorobenzene	RW1	0411066-11	11/11/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
7526	1,2-Dichloroethane	RW1	0411066-11	11/11/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
7527	1,2-Dichloropropane	RW1	0411066-11	11/11/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
7528	1,3-Dichlorobenzene	RW1	0411066-11	11/11/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
7529	1,3-Dichloropropane	RW1	0411066-11	11/11/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
7530	1,4-Dichlorobenzene	RW1	0411066-11	11/11/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
7531	2,2-Dichloropropane	RW1	0411066-11	11/11/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
7532	2-Chlorotoluene	RW1	0411066-11	11/11/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
7533	2-Hexanone	RW1	0411066-11	11/11/04	8260	2-Hexanone	#N/A	10	U	ug/L
7534	4-Chlorotoluene	RW1	0411066-11	11/11/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
7535	4-Methyl-2-pentanone	RW1	0411066-11	11/11/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
7536	Acrylonitrile	RW1	0411066-11	11/11/04	8260	Acrylonitrile	#N/A	5	U	ug/L
7537	Bromobenzene	RW1	0411066-11	11/11/04	8260	Bromobenzene	#N/A	1	U	ug/L
7538	Bromochloromethane	RW1	0411066-11	11/11/04	8260	Bromochloromethane	#N/A	1	U	ug/L
7539	Bromodichloromethane	RW1	0411066-11	11/11/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
7540	Bromomethane	RW1	0411066-11	11/11/04	8260	Bromomethane	#N/A	1	U	ug/L
7541	Carbon tetrachloride	RW1	0411066-11	11/11/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
7542	Chlorobenzene	RW1	0411066-11	11/11/04	8260	Chlorobenzene	#N/A	1	U	ug/L
7543	Chloroethane	RW1	0411066-11	11/11/04	8260	Chloroethane	#N/A	1	U	ug/L
7544	Chloroform	RW1	0411066-11	11/11/04	8260	Chloroform	#N/A	1	U	ug/L
7545	Chloromethane	RW1	0411066-11	11/11/04	8260	Chloromethane	#N/A	1	U	ug/L
7546	cis-1,2-Dichloroethene	RW1	0411066-11	11/11/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
7547	cis-1,3-Dichloropropene	RW1	0411066-11	11/11/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
7548	Dibromochloromethane	RW1	0411066-11	11/11/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
7549	Dibromomethane	RW1	0411066-11	11/11/04	8260	Dibromomethane	#N/A	1	U	ug/L
7550	Dichlorodifluoromethane	RW1	0411066-11	11/11/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
7551	Hexachlorobutadiene	RW1	0411066-11	11/11/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
7552	Methylene chloride	RW1	0411066-11	11/11/04	8260	Methylene chloride	#N/A	20	U	ug/L
7553	Tetrachloroethene	RW1	0411066-11	11/11/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
7554	trans-1,2-Dichloroethene	RW1	0411066-11	11/11/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
7555	trans-1,3-Dichloropropene	RW1	0411066-11	11/11/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
7556	Trichloroethene	RW1	0411066-11	11/11/04	8260	Trichloroethene	#N/A	1	U	ug/L
7557	Trichlorofluoromethane	RW1	0411066-11	11/11/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
7558	Vinyl chloride	RW1	0411066-11	11/11/04	8260	Vinyl chloride	#N/A	1	U	ug/L
7559	1,2,4-Trichlorobenzene	RW1	0411066-11	11/11/04	8270	1,2,4-Trichlorobenzene	#N/A	1.01	U	ug/L
7560	1,2-Dichlorobenzene	RW1	0411066-11	11/11/04	8270	1,2-Dichlorobenzene	#N/A	1.01	U	ug/L
7561	1,3-Dichlorobenzene	RW1	0411066-11	11/11/04	8270	1,3-Dichlorobenzene	#N/A	1.01	U	ug/L
7562	1,4-Dichlorobenzene	RW1	0411066-11	11/11/04	8270	1,4-Dichlorobenzene	#N/A	1.01	U	ug/L
7563	2,3,4,6-Tetrachlorophenol	RW1	0411066-11	11/11/04	8270	2,3,4,6-Tetrachlorophenol	#N/A	**10.9**		ug/L
7564	2,3,5,6-Tetrachlorophenol	RW1	0411066-11	11/11/04	8270	2,3,5,6-Tetrachlorophenol	#N/A	**103**		ug/L
7565	2,4-Dichlorophenol	RW1	0411066-11	11/11/04	8270	2,4-Dichlorophenol	#N/A	**5.36**		ug/L
7566	2,4-Dinitrophenol	RW1	0411066-11	11/11/04	8270	2,4-Dinitrophenol	#N/A	10.1	U	ug/L
7567	2,4-Dinitrotoluene	RW1	0411066-11	11/11/04	8270	2,4-Dinitrotoluene	#N/A	5.03	U	ug/L
7568	2,6-Dinitrotoluene	RW1	0411066-11	11/11/04	8270	2,6-Dinitrotoluene	#N/A	5.03	U	ug/L
7569	2-Chloronaphthalene	RW1	0411066-11	11/11/04	8270	2-Chloronaphthalene	#N/A	1.01	U	ug/L
7570	2-Chlorophenol	RW1	0411066-11	11/11/04	8270	2-Chlorophenol	#N/A	1.01	U	ug/L
7571	2-Methylphenol	RW1	0411066-11	11/11/04	8270	2-Methylphenol	#N/A	2.01	U	ug/L
7572	2-Nitroaniline	RW1	0411066-11	11/11/04	8270	2-Nitroaniline	#N/A	5.03	U	ug/L
7573	2-Nitrophenol	RW1	0411066-11	11/11/04	8270	2-Nitrophenol	#N/A	5.03	U	ug/L
7574	3,3'-Dichlorobenzidine	RW1	0411066-11	11/11/04	8270	3,3'-Dichlorobenzidine	#N/A	5.03	U	ug/L
7575	3-Nitroaniline	RW1	0411066-11	11/11/04	8270	3-Nitroaniline	#N/A	6.03	U	ug/L
7576	4,6-Dinitro-2-methylphenol	RW1	0411066-11	11/11/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.1	U	ug/L
7577	4-Bromophenyl phenyl ether	RW1	0411066-11	11/11/04	8270	4-Bromophenyl phenyl ether	#N/A	1.01	U	ug/L
7578	4-Chloro-3-methylphenol	RW1	0411066-11	11/11/04	8270	4-Chloro-3-methylphenol	#N/A	2.01	U	ug/L
7579	4-Chloroaniline	RW1	0411066-11	11/11/04	8270	4-Chloroaniline	#N/A	3.02	U	ug/L
7580	4-Chlorophenyl phenyl ether	RW1	0411066-11	11/11/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.01	U	ug/L
7581	4-Nitroaniline	RW1	0411066-11	11/11/04	8270	4-Nitroaniline	#N/A	5.03	U	ug/L
7582	4-Nitrophenol	RW1	0411066-11	11/11/04	8270	4-Nitrophenol	#N/A	5.03	U	ug/L
7583	Benz(a)anthracene	RW1	0411066-11	11/11/04	8270	Benz(a)anthracene	#N/A	1.01	U	ug/L
7584	Benzo(a)pyrene	RW1	0411066-11	11/11/04	8270	Benzo(a)pyrene	#N/A	1.01	U	ug/L
7585	Benzo(b)fluoranthene	RW1	0411066-11	11/11/04	8270	Benzo(b)fluoranthene	#N/A	1.01	U	ug/L
7586	Benzo(g,h,i)perylene	RW1	0411066-11	11/11/04	8270	Benzo(g,h,i)perylene	#N/A	1.01	U	ug/L
7587	Benzo(k)fluoranthene	RW1	0411066-11	11/11/04	8270	Benzo(k)fluoranthene	#N/A	1.01	U	ug/L
7588	Benzyl Alcohol	RW1	0411066-11	11/11/04	8270	Benzyl Alcohol	#N/A	5.03	U	ug/L
7589	Bis(2-chloroethoxy)methane	RW1	0411066-11	11/11/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.01	U	ug/L
7590	Bis(2-chloroethyl)ether	RW1	0411066-11	11/11/04	8270	Bis(2-chloroethyl)ether	#N/A	2.01	U	ug/L
7591	Bis(2-chloroisopropyl)ether	RW1	0411066-11	11/11/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.01	U	ug/L
7592	Butyl benzyl phthalate	RW1	0411066-11	11/11/04	8270	Butyl benzyl phthalate	#N/A	1.01	U	ug/L

	A	B	C	D	E	F	G	H	I	J
7593	Carbazole	RW1	0411066-11	11/11/04	8270	Carbazole	#N/A	1.01	U	ug/L
7594	Chrysene	RW1	0411066-11	11/11/04	8270	Chrysene	#N/A	1.01	U	ug/L
7595	Dibenz(a,h)anthracene	RW1	0411066-11	11/11/04	8270	Dibenz(a,h)anthracene	#N/A	1.01	U	ug/L
7596	Diethyl phthalate	RW1	0411066-11	11/11/04	8270	Diethyl phthalate	#N/A	1.01	U	ug/L
7597	Dimethyl phthalate	RW1	0411066-11	11/11/04	8270	Dimethyl phthalate	#N/A	1.01	U	ug/L
7598	Di-n-butyl phthalate	RW1	0411066-11	11/11/04	8270	Di-n-butyl phthalate	#N/A	**1.3**		ug/L
7599	Di-n-octyl phthalate	RW1	0411066-11	11/11/04	8270	Di-n-octyl phthalate	#N/A	1.01	U	ug/L
7600	Fluoranthene	RW1	0411066-11	11/11/04	8270	Fluoranthene	#N/A	1.01	U	ug/L
7601	Hexachlorobenzene	RW1	0411066-11	11/11/04	8270	Hexachlorobenzene	#N/A	1.01	U	ug/L
7602	Hexachlorobutadiene	RW1	0411066-11	11/11/04	8270	Hexachlorobutadiene	#N/A	2.01	U	ug/L
7603	Hexachlorocyclopentadiene	RW1	0411066-11	11/11/04	8270	Hexachlorocyclopentadiene	#N/A	5.03	U	ug/L
7604	Hexachloroethane	RW1	0411066-11	11/11/04	8270	Hexachloroethane	#N/A	2.01	U	ug/L
7605	Indeno(1,2,3-cd)pyrene	RW1	0411066-11	11/11/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.01	U	ug/L
7606	Nitrobenzene	RW1	0411066-11	11/11/04	8270	Nitrobenzene	#N/A	1.01	U	ug/L
7607	N-Nitrosodimethylamine	RW1	0411066-11	11/11/04	8270	N-Nitrosodimethylamine	#N/A	1.01	U	ug/L
7608	N-Nitrosodi-n-propylamine	RW1	0411066-11	11/11/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.01	U	ug/L
7609	N-Nitrosodiphenylamine	RW1	0411066-11	11/11/04	8270	N-Nitrosodiphenylamine	#N/A	1.01	U	ug/L
7610	Phenanthrene	RW1	0411066-11	11/11/04	8270	Phenanthrene	#N/A	1.01	U	ug/L
7611	Pyrene	RW1	0411066-11	11/11/04	8270	Pyrene	#N/A	1.01	U	ug/L
7612	Pyridine	RW1	0411066-11	11/11/04	8270	Pyridine	#N/A	5.03	U	ug/L
7613	Total TEQ	RW1	E0401188-003	11/11/04	8290	Total TEQ	#N/A	**0.006964**		ng/L
7614	Redox	RW1	0411066-11	11/11/04	FIELD	Redox	#N/A	9.84		mV
7615	Turbidity	RW1	0411066-11	11/11/04	FIELD	Turbidity	#N/A	333		ntu
7616	Ferrous Iron	RW1	0411066-11	11/11/04	SM3500 FeD	Ferrous Iron	#N/A	**53**		mg/L
7617	Pentachlorophenol	RW2	0411051-04	11/9/04	8270	Pentachlorophenol	3	5.06	U	ug/L
7618	Phenol	RW2	0411051-04	11/9/04	8270	Phenol	13	2.02	U	ug/L
7619	3-&4-Methylphenol	RW2	0411051-04	11/9/04	8270	3-&4-Methylphenol	14	10.1	U	ug/L
7620	Isophorone	RW2	0411051-04	11/9/04	8270	Isophorone	15	1.01	U	ug/L
7621	2,4-Dimethylphenol	RW2	0411051-04	11/9/04	8270	2,4-Dimethylphenol	16	3.04	U	ug/L
7622	Benzoic Acid	RW2	0411051-04	11/9/04	8270	Benzoic Acid	17	20.2	U	ug/L
7623	Naphthalene	RW2	0411051-04	11/9/04	8270	Naphthalene	18	1.01	U	ug/L
7624	2-Methylnaphthalene	RW2	0411051-04	11/9/04	8270	2-Methylnaphthalene	19	**2.22**		ug/L
7625	2,4,6-Trichlorophenol	RW2	0411051-04	11/9/04	8270	2,4,6-Trichlorophenol	20	5.06	U	ug/L
7626	2,4,5-Trichlorophenol	RW2	0411051-04	11/9/04	8270	2,4,5-Trichlorophenol	21	5.06	U	ug/L
7627	Acenaphthene	RW2	0411051-04	11/9/04	8270	Acenaphthene	22	1.01	U	ug/L
7628	Dibenzofuran	RW2	0411051-04	11/9/04	8270	Dibenzofuran	23	1.01	U	ug/L
7629	Fluorene	RW2	0411051-04	11/9/04	8270	Fluorene	24	1.01	U	ug/L
7630	Pentachlorophenol	RW2	0411051-04	11/9/04	8270SIM	Pentachlorophenol	25	**1.84**		ug/L
7631	Bis(2-ethylhexyl)phthalate	RW2	0411051-04	11/9/04	8270	Bis(2-ethylhexyl)phthalate	26	1.01	U	ug/L
7632	Acetone	RW2	0411051-04	11/9/04	8260	Acetone	30	50	U	ug/L
7633	Carbon disulfide	RW2	0411051-04	11/9/04	8260	Carbon disulfide	31	2	U	ug/L
7634	2-Butanone	RW2	0411051-04	11/9/04	8260	2-Butanone	32	10	U	ug/L
7635	Benzene	RW2	0411051-04	11/9/04	8260	Benzene	33	**1**		ug/L
7636	Bromoform	RW2	0411051-04	11/9/04	8260	Bromoform	34	1	U	ug/L
7637	Toluene	RW2	0411051-04	11/9/04	8260	Toluene	35	1	U	ug/L
7638	Ethylbenzene	RW2	0411051-04	11/9/04	8260	Ethylbenzene	36	**1.89**		ug/L
7639	Styrene	RW2	0411051-04	11/9/04	8260	Styrene	37	1	U	ug/L
7640	m,p-Xylene	RW2	0411051-04	11/9/04	8260	m,p-Xylene	38	2	U	ug/L
7641	o-Xylene	RW2	0411051-04	11/9/04	8260	o-Xylene	39	**1.7**		ug/L
7642	1,3,5-Trimethylbenzene	RW2	0411051-04	11/9/04	8260	1,3,5-Trimethylbenzene	40	**1.03**		ug/L
7643	1,2,4-Trimethylbenzene	RW2	0411051-04	11/9/04	8260	1,2,4-Trimethylbenzene	41	**4.51**		ug/L
7644	Isopropylbenzene	RW2	0411051-04	11/9/04	8260	Isopropylbenzene	42	**57.3**		ug/L
7645	n-Propylbenzene	RW2	0411051-04	11/9/04	8260	n-Propylbenzene	43	**72.2**		ug/L
7646	tert-Butylbenzene	RW2	0411051-04	11/9/04	8260	tert-Butylbenzene	44	**1.48**		ug/L
7647	sec-Butylbenzene	RW2	0411051-04	11/9/04	8260	sec-Butylbenzene	45	**7.84**		ug/L
7648	4-Isopropyltoluene	RW2	0411051-04	11/9/04	8260	4-Isopropyltoluene	46	1	U	ug/L
7649	n-Butylbenzene	RW2	0411051-04	11/9/04	8260	n-Butylbenzene	47	**4.91**		ug/L
7650	Naphthalene	RW2	0411051-04	11/9/04	8260	Naphthalene	48	1	U	ug/L
7651	Methyl tert-butyl ether	RW2	0411051-04	11/9/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
7652	Diesel Range Hydrocarbons	RW2	0411051-04	11/9/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.904**		mg/L
7653	Lube Oil	RW2	0411051-04	11/9/04	NWTPH-Dx	Lube Oil	54	0.477	U	mg/L
7654	Gasoline Range Hydrocarbons	RW2	0411051-04	11/9/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**1.18**		ug/L
7655	Arsenic	RW2	0411051-04	11/9/04	6020	Arsenic	59	**0.0202**		ug/L
7656	Chromium	RW2	0411051-04	11/9/04	6010	Chromium	60	**0.0129**		mg/L
7657	Copper	RW2	0411051-04	11/9/04	6010	Copper	61	0.01	U	mg/L
7658	Lead	RW2	0411051-04	11/9/04	6020	Lead	62	0.00014	UJ	ug/L
7659	Nickel	RW2	0411051-04	11/9/04	6010	Nickel	63	**0.0113**		mg/L
7660	Zinc	RW2	0411051-04	11/9/04	6010	Zinc	64	0.0116	UJ	mg/L
7661	Total Dissolved Solids	RW2	0411051-04	11/9/04	1601	Total Dissolved Solids	74	**266**		mg/L
7662	Chloride	RW2	0411051-04	11/9/04	9056	Chloride	75	**8.68**		mg/L
7663	pH	RW2	0411051-04	11/9/04	FIELD	pH	82	6.6		s.u.
7664	Temperature	RW2	0411051-04	11/9/04	FIELD	Temperature	83	13.6		c
7665	Conductivity	RW2	0411051-04	11/9/04	FIELD	Conductivity	84	356		us

	A	B	C	D	E	F	G	H	I	J
7666	Dissolved oxygen	RW2	0411051-04	11/9/04	FIELD	Dissolved oxygen	85	2.14		mg/l
7667	1,1,1,2-Tetrachloroethane	RW2	0411051-04	11/9/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
7668	1,1,1-Trichloroethane	RW2	0411051-04	11/9/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
7669	1,1,2,2-Tetrachloroethane	RW2	0411051-04	11/9/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
7670	1,1,2-Trichloroethane	RW2	0411051-04	11/9/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
7671	1,1-Dichloroethane	RW2	0411051-04	11/9/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
7672	1,1-Dichloroethene	RW2	0411051-04	11/9/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
7673	1,1-Dichloropropene	RW2	0411051-04	11/9/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
7674	1,2,3-Trichlorobenzene	RW2	0411051-04	11/9/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
7675	1,2,3-Trichloropropane	RW2	0411051-04	11/9/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
7676	1,2,4-Trichlorobenzene	RW2	0411051-04	11/9/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
7677	1,2-Dibromo-3-chloropropane	RW2	0411051-04	11/9/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
7678	1,2-Dibromoethane	RW2	0411051-04	11/9/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
7679	1,2-Dichlorobenzene	RW2	0411051-04	11/9/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
7680	1,2-Dichloroethane	RW2	0411051-04	11/9/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
7681	1,2-Dichloropropane	RW2	0411051-04	11/9/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
7682	1,3-Dichlorobenzene	RW2	0411051-04	11/9/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
7683	1,3-Dichloropropane	RW2	0411051-04	11/9/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
7684	1,4-Dichlorobenzene	RW2	0411051-04	11/9/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
7685	2,2-Dichloropropane	RW2	0411051-04	11/9/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
7686	2-Chlorotoluene	RW2	0411051-04	11/9/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
7687	2-Hexanone	RW2	0411051-04	11/9/04	8260	2-Hexanone	#N/A	10	U	ug/L
7688	4-Chlorotoluene	RW2	0411051-04	11/9/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
7689	4-Methyl-2-pentanone	RW2	0411051-04	11/9/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
7690	Acrylonitrile	RW2	0411051-04	11/9/04	8260	Acrylonitrile	#N/A	5	U	ug/L
7691	Bromobenzene	RW2	0411051-04	11/9/04	8260	Bromobenzene	#N/A	1	U	ug/L
7692	Bromochloromethane	RW2	0411051-04	11/9/04	8260	Bromochloromethane	#N/A	1	U	ug/L
7693	Bromodichloromethane	RW2	0411051-04	11/9/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
7694	Bromomethane	RW2	0411051-04	11/9/04	8260	Bromomethane	#N/A	1	U	ug/L
7695	Carbon tetrachloride	RW2	0411051-04	11/9/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
7696	Chlorobenzene	RW2	0411051-04	11/9/04	8260	Chlorobenzene	#N/A	1	U	ug/L
7697	Chloroethane	RW2	0411051-04	11/9/04	8260	Chloroethane	#N/A	1	U	ug/L
7698	Chloroform	RW2	0411051-04	11/9/04	8260	Chloroform	#N/A	1	U	ug/L
7699	Chloromethane	RW2	0411051-04	11/9/04	8260	Chloromethane	#N/A	1	U	ug/L
7700	cis-1,2-Dichloroethene	RW2	0411051-04	11/9/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
7701	cis-1,3-Dichloropropene	RW2	0411051-04	11/9/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
7702	Dibromochloromethane	RW2	0411051-04	11/9/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
7703	Dibromomethane	RW2	0411051-04	11/9/04	8260	Dibromomethane	#N/A	1	U	ug/L
7704	Dichlorodifluoromethane	RW2	0411051-04	11/9/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
7705	Hexachlorobutadiene	RW2	0411051-04	11/9/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
7706	Methylene chloride	RW2	0411051-04	11/9/04	8260	Methylene chloride	#N/A	20	U	ug/L
7707	Tetrachloroethene	RW2	0411051-04	11/9/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
7708	trans-1,2-Dichloroethene	RW2	0411051-04	11/9/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
7709	trans-1,3-Dichloropropene	RW2	0411051-04	11/9/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
7710	Trichloroethene	RW2	0411051-04	11/9/04	8260	Trichloroethene	#N/A	1	U	ug/L
7711	Trichlorofluoromethane	RW2	0411051-04	11/9/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
7712	Vinyl chloride	RW2	0411051-04	11/9/04	8260	Vinyl chloride	#N/A	1	U	ug/L
7713	1,2,4-Trichlorobenzene	RW2	0411051-04	11/9/04	8270	1,2,4-Trichlorobenzene	#N/A	1.01	U	ug/L
7714	1,2-Dichlorobenzene	RW2	0411051-04	11/9/04	8270	1,2-Dichlorobenzene	#N/A	1.01	U	ug/L
7715	1,3-Dichlorobenzene	RW2	0411051-04	11/9/04	8270	1,3-Dichlorobenzene	#N/A	1.01	U	ug/L
7716	1,4-Dichlorobenzene	RW2	0411051-04	11/9/04	8270	1,4-Dichlorobenzene	#N/A	1.01	U	ug/L
7717	2,4-Dichlorophenol	RW2	0411051-04	11/9/04	8270	2,4-Dichlorophenol	#N/A	3.04	U	ug/L
7718	2,4-Dinitrophenol	RW2	0411051-04	11/9/04	8270	2,4-Dinitrophenol	#N/A	10.1	U	ug/L
7719	2,4-Dinitrotoluene	RW2	0411051-04	11/9/04	8270	2,4-Dinitrotoluene	#N/A	5.06	U	ug/L
7720	2,6-Dinitrotoluene	RW2	0411051-04	11/9/04	8270	2,6-Dinitrotoluene	#N/A	5.06	U	ug/L
7721	2-Chloronaphthalene	RW2	0411051-04	11/9/04	8270	2-Chloronaphthalene	#N/A	1.01	U	ug/L
7722	2-Chlorophenol	RW2	0411051-04	11/9/04	8270	2-Chlorophenol	#N/A	1.01	U	ug/L
7723	2-Methylphenol	RW2	0411051-04	11/9/04	8270	2-Methylphenol	#N/A	2.02	U	ug/L
7724	2-Nitroaniline	RW2	0411051-04	11/9/04	8270	2-Nitroaniline	#N/A	5.06	U	ug/L
7725	2-Nitrophenol	RW2	0411051-04	11/9/04	8270	2-Nitrophenol	#N/A	5.06	U	ug/L
7726	3,3'-Dichlorobenzidine	RW2	0411051-04	11/9/04	8270	3,3'-Dichlorobenzidine	#N/A	5.06	U	ug/L
7727	3-Nitroaniline	RW2	0411051-04	11/9/04	8270	3-Nitroaniline	#N/A	6.07	U	ug/L
7728	4,6-Dinitro-2-methylphenol	RW2	0411051-04	11/9/04	8270	4,6-Dinitro-2-methylphenol	#N/A	10.1	U	ug/L
7729	4-Bromophenyl phenyl ether	RW2	0411051-04	11/9/04	8270	4-Bromophenyl phenyl ether	#N/A	1.01	U	ug/L
7730	4-Chloro-3-methylphenol	RW2	0411051-04	11/9/04	8270	4-Chloro-3-methylphenol	#N/A	2.02	U	ug/L
7731	4-Chloroaniline	RW2	0411051-04	11/9/04	8270	4-Chloroaniline	#N/A	3.04	U	ug/L
7732	4-Chlorophenyl phenyl ether	RW2	0411051-04	11/9/04	8270	4-Chlorophenyl phenyl ether	#N/A	1.01	U	ug/L
7733	4-Nitroaniline	RW2	0411051-04	11/9/04	8270	4-Nitroaniline	#N/A	5.06	U	ug/L
7734	4-Nitrophenol	RW2	0411051-04	11/9/04	8270	4-Nitrophenol	#N/A	5.06	U	ug/L
7735	Benz(a)anthracene	RW2	0411051-04	11/9/04	8270	Benz(a)anthracene	#N/A	1.01	U	ug/L
7736	Benzo(a)pyrene	RW2	0411051-04	11/9/04	8270	Benzo(a)pyrene	#N/A	1.01	U	ug/L
7737	Benzo(b)fluoranthene	RW2	0411051-04	11/9/04	8270	Benzo(b)fluoranthene	#N/A	1.01	U	ug/L
7738	Benzo(g,h,i)perylene	RW2	0411051-04	11/9/04	8270	Benzo(g,h,i)perylene	#N/A	1.01	U	ug/L

	A	B	C	D	E	F	G	H	I	J
7739	Benzo(k)fluoranthene	RW2	0411051-04	11/9/04	8270	Benzo(k)fluoranthene	#N/A	1.01	U	ug/L
7740	Benzyl Alcohol	RW2	0411051-04	11/9/04	8270	Benzyl Alcohol	#N/A	5.06	U	ug/L
7741	Bis(2-chloroethoxy)methane	RW2	0411051-04	11/9/04	8270	Bis(2-chloroethoxy)methane	#N/A	1.01	U	ug/L
7742	Bis(2-chloroethyl)ether	RW2	0411051-04	11/9/04	8270	Bis(2-chloroethyl)ether	#N/A	2.02	U	ug/L
7743	Bis(2-chloroisopropyl)ether	RW2	0411051-04	11/9/04	8270	Bis(2-chloroisopropyl)ether	#N/A	1.01	U	ug/L
7744	Butyl benzyl phthalate	RW2	0411051-04	11/9/04	8270	Butyl benzyl phthalate	#N/A	1.01	U	ug/L
7745	Carbazole	RW2	0411051-04	11/9/04	8270	Carbazole	#N/A	1.01	U	ug/L
7746	Chrysene	RW2	0411051-04	11/9/04	8270	Chrysene	#N/A	1.01	U	ug/L
7747	Dibenz(a,h)anthracene	RW2	0411051-04	11/9/04	8270	Dibenz(a,h)anthracene	#N/A	1.01	U	ug/L
7748	Diethyl phthalate	RW2	0411051-04	11/9/04	8270	Diethyl phthalate	#N/A	1.01	U	ug/L
7749	Dimethyl phthalate	RW2	0411051-04	11/9/04	8270	Dimethyl phthalate	#N/A	1.01	U	ug/L
7750	Di-n-butyl phthalate	RW2	0411051-04	11/9/04	8270	Di-n-butyl phthalate	#N/A	1.01	U	ug/L
7751	Di-n-octyl phthalate	RW2	0411051-04	11/9/04	8270	Di-n-octyl phthalate	#N/A	1.01	U	ug/L
7752	Fluoranthene	RW2	0411051-04	11/9/04	8270	Fluoranthene	#N/A	1.01	U	ug/L
7753	Hexachlorobenzene	RW2	0411051-04	11/9/04	8270	Hexachlorobenzene	#N/A	1.01	U	ug/L
7754	Hexachlorobutadiene	RW2	0411051-04	11/9/04	8270	Hexachlorobutadiene	#N/A	2.02	U	ug/L
7755	Hexachlorocyclopentadiene	RW2	0411051-04	11/9/04	8270	Hexachlorocyclopentadiene	#N/A	5.06	U	ug/L
7756	Hexachloroethane	RW2	0411051-04	11/9/04	8270	Hexachloroethane	#N/A	2.02	U	ug/L
7757	Indeno(1,2,3-cd)pyrene	RW2	0411051-04	11/9/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	1.01	U	ug/L
7758	Nitrobenzene	RW2	0411051-04	11/9/04	8270	Nitrobenzene	#N/A	1.01	U	ug/L
7759	N-Nitrosodimethylamine	RW2	0411051-04	11/9/04	8270	N-Nitrosodimethylamine	#N/A	1.01	U	ug/L
7760	N-Nitrosodi-n-propylamine	RW2	0411051-04	11/9/04	8270	N-Nitrosodi-n-propylamine	#N/A	2.02	U	ug/L
7761	N-Nitrosodiphenylamine	RW2	0411051-04	11/9/04	8270	N-Nitrosodiphenylamine	#N/A	1.01	U	ug/L
7762	Phenanthrene	RW2	0411051-04	11/9/04	8270	Phenanthrene	#N/A	1.01	U	ug/L
7763	Pyrene	RW2	0411051-04	11/9/04	8270	Pyrene	#N/A	1.01	U	ug/L
7764	Pyridine	RW2	0411051-04	11/9/04	8270	Pyridine	#N/A	5.06	U	ug/L
7765	Turbidity	RW2	0411051-04	11/9/04	FIELD	Turbidity	#N/A	0		ntu
7766	Pentachlorophenol	RW2-Dup	0411051-01	11/9/04	8270	Pentachlorophenol	3	4.92	U	ug/L
7767	Phenol	RW2-Dup	0411051-01	11/9/04	8270	Phenol	13	1.97	U	ug/L
7768	3-&4-Methylphenol	RW2-Dup	0411051-01	11/9/04	8270	3-&4-Methylphenol	14	9.84	U	ug/L
7769	Isophorone	RW2-Dup	0411051-01	11/9/04	8270	Isophorone	15	0.984	U	ug/L
7770	2,4-Dimethylphenol	RW2-Dup	0411051-01	11/9/04	8270	2,4-Dimethylphenol	16	2.95	U	ug/L
7771	Benzoic Acid	RW2-Dup	0411051-01	11/9/04	8270	Benzoic Acid	17	19.7	U	ug/L
7772	Naphthalene	RW2-Dup	0411051-01	11/9/04	8260	Naphthalene	18	1	U	ug/L
7773	Naphthalene	RW2-Dup	0411051-01	11/9/04	8270	Naphthalene	18	0.984	U	ug/L
7774	2-Methylnaphthalene	RW2-Dup	0411051-01	11/9/04	8270	2-Methylnaphthalene	19	**2.67**		ug/L
7775	2,4,6-Trichlorophenol	RW2-Dup	0411051-01	11/9/04	8270	2,4,6-Trichlorophenol	20	4.92	U	ug/L
7776	2,4,5-Trichlorophenol	RW2-Dup	0411051-01	11/9/04	8270	2,4,5-Trichlorophenol	21	4.92	U	ug/L
7777	Acenaphthene	RW2-Dup	0411051-01	11/9/04	8270	Acenaphthene	22	0.984	U	ug/L
7778	Dibenzofuran	RW2-Dup	0411051-01	11/9/04	8270	Dibenzofuran	23	0.984	U	ug/L
7779	Fluorene	RW2-Dup	0411051-01	11/9/04	8270	Fluorene	24	0.984	U	ug/L
7780	Pentachlorophenol	RW2-Dup	0411051-01	11/9/04	8270SIM	Pentachlorophenol	25	**2.12**		ug/L
7781	Bis(2-ethylhexyl)phthalate	RW2-Dup	0411051-01	11/9/04	8270	Bis(2-ethylhexyl)phthalate	26	0.984	U	ug/L
7782	Acetone	RW2-Dup	0411051-01	11/9/04	8260	Acetone	30	50	U	ug/L
7783	Carbon disulfide	RW2-Dup	0411051-01	11/9/04	8260	Carbon disulfide	31	2	U	ug/L
7784	2-Butanone	RW2-Dup	0411051-01	11/9/04	8260	2-Butanone	32	10	U	ug/L
7785	Benzene	RW2-Dup	0411051-01	11/9/04	8260	Benzene	33	**1.06**		ug/L
7786	Bromoform	RW2-Dup	0411051-01	11/9/04	8260	Bromoform	34	1	U	ug/L
7787	Toluene	RW2-Dup	0411051-01	11/9/04	8260	Toluene	35	1	U	ug/L
7788	Ethylbenzene	RW2-Dup	0411051-01	11/9/04	8260	Ethylbenzene	36	**2.06**		ug/L
7789	Styrene	RW2-Dup	0411051-01	11/9/04	8260	Styrene	37	1	U	ug/L
7790	m,p-Xylene	RW2-Dup	0411051-01	11/9/04	8260	m,p-Xylene	38	2	U	ug/L
7791	o-Xylene	RW2-Dup	0411051-01	11/9/04	8260	o-Xylene	39	**1.82**		ug/L
7792	1,3,5-Trimethylbenzene	RW2-Dup	0411051-01	11/9/04	8260	1,3,5-Trimethylbenzene	40	**1.31**		ug/L
7793	1,2,4-Trimethylbenzene	RW2-Dup	0411051-01	11/9/04	8260	1,2,4-Trimethylbenzene	41	**5.6**		ug/L
7794	Isopropylbenzene	RW2-Dup	0411051-01	11/9/04	8260	Isopropylbenzene	42	**62.4**		ug/L
7795	n-Propylbenzene	RW2-Dup	0411051-01	11/9/04	8260	n-Propylbenzene	43	**77.6**		ug/L
7796	tert-Butylbenzene	RW2-Dup	0411051-01	11/9/04	8260	tert-Butylbenzene	44	**1.66**		ug/L
7797	sec-Butylbenzene	RW2-Dup	0411051-01	11/9/04	8260	sec-Butylbenzene	45	**9.22**		ug/L
7798	4-Isopropyltoluene	RW2-Dup	0411051-01	11/9/04	8260	4-Isopropyltoluene	46	1	U	ug/L
7799	n-Butylbenzene	RW2-Dup	0411051-01	11/9/04	8260	n-Butylbenzene	47	**6.09**		ug/L
7800	Methyl tert-butyl ether	RW2-Dup	0411051-01	11/9/04	8260	Methyl tert-butyl ether	49	1	U	ug/L
7801	Diesel Range Hydrocarbons	RW2-Dup	0411051-01	11/9/04	NWTPH-Dx	Diesel Range Hydrocarbons	53	**0.991**		mg/L
7802	Lube Oil	RW2-Dup	0411051-01	11/9/04	NWTPH-Dx	Lube Oil	54	0.491	U	mg/L
7803	Gasoline Range Hydrocarbons	RW2-Dup	0411051-01	11/9/04	NWTPH-Gx	Gasoline Range Hydrocarbons	55	**1.23**		ug/L
7804	Arsenic	RW2-Dup	0411051-01	11/9/04	6020	Arsenic	59	**0.0207**		ug/L
7805	Chromium	RW2-Dup	0411051-01	11/9/04	6010	Chromium	60	**0.0197**		mg/L
7806	Copper	RW2-Dup	0411051-01	11/9/04	6010	Copper	61	0.01	U	mg/L
7807	Lead	RW2-Dup	0411051-01	11/9/04	6020	Lead	62	**0.00372**	J	ug/L
7808	Nickel	RW2-Dup	0411051-01	11/9/04	6010	Nickel	63	**0.0412**		mg/L
7809	Zinc	RW2-Dup	0411051-01	11/9/04	6010	Zinc	64	**0.0306**	J	mg/L
7810	Total Dissolved Solids	RW2-Dup	0411051-01	11/9/04	1601	Total Dissolved Solids	74	**265**		mg/L
7811	Chloride	RW2-Dup	0411051-01	11/9/04	9056	Chloride	75	**6.63**		mg/L

	A	B	C	D	E	F	G	H	I	J
7812	pH	RW2-Dup	0411051-01	11/9/04	FIELD	pH	82	6.7		s.u.
7813	Temperature	RW2-Dup	0411051-01	11/9/04	FIELD	Temperature	83	13.7		c
7814	Conductivity	RW2-Dup	0411051-01	11/9/04	FIELD	Conductivity	84	359		us
7815	Dissolved oxygen	RW2-Dup	0411051-01	11/9/04	FIELD	Dissolved oxygen	85	2.17		mg/l
7816	1,1,1,2-Tetrachloroethane	RW2-Dup	0411051-01	11/9/04	8260	1,1,1,2-Tetrachloroethane	#N/A	1	U	ug/L
7817	1,1,1-Trichloroethane	RW2-Dup	0411051-01	11/9/04	8260	1,1,1-Trichloroethane	#N/A	1	U	ug/L
7818	1,1,2,2-Tetrachloroethane	RW2-Dup	0411051-01	11/9/04	8260	1,1,2,2-Tetrachloroethane	#N/A	1	U	ug/L
7819	1,1,2-Trichloroethane	RW2-Dup	0411051-01	11/9/04	8260	1,1,2-Trichloroethane	#N/A	1	U	ug/L
7820	1,1-Dichloroethane	RW2-Dup	0411051-01	11/9/04	8260	1,1-Dichloroethane	#N/A	1	U	ug/L
7821	1,1-Dichloroethene	RW2-Dup	0411051-01	11/9/04	8260	1,1-Dichloroethene	#N/A	1	U	ug/L
7822	1,1-Dichloropropene	RW2-Dup	0411051-01	11/9/04	8260	1,1-Dichloropropene	#N/A	1	U	ug/L
7823	1,2,3-Trichlorobenzene	RW2-Dup	0411051-01	11/9/04	8260	1,2,3-Trichlorobenzene	#N/A	1	U	ug/L
7824	1,2,3-Trichloropropane	RW2-Dup	0411051-01	11/9/04	8260	1,2,3-Trichloropropane	#N/A	1	U	ug/L
7825	1,2,4-Trichlorobenzene	RW2-Dup	0411051-01	11/9/04	8260	1,2,4-Trichlorobenzene	#N/A	1	U	ug/L
7826	1,2-Dibromo-3-chloropropane	RW2-Dup	0411051-01	11/9/04	8260	1,2-Dibromo-3-chloropropane	#N/A	1	U	ug/L
7827	1,2-Dibromoethane	RW2-Dup	0411051-01	11/9/04	8260	1,2-Dibromoethane	#N/A	1	U	ug/L
7828	1,2-Dichlorobenzene	RW2-Dup	0411051-01	11/9/04	8260	1,2-Dichlorobenzene	#N/A	1	U	ug/L
7829	1,2-Dichloroethane	RW2-Dup	0411051-01	11/9/04	8260	1,2-Dichloroethane	#N/A	1	U	ug/L
7830	1,2-Dichloropropane	RW2-Dup	0411051-01	11/9/04	8260	1,2-Dichloropropane	#N/A	1	U	ug/L
7831	1,3-Dichlorobenzene	RW2-Dup	0411051-01	11/9/04	8260	1,3-Dichlorobenzene	#N/A	1	U	ug/L
7832	1,3-Dichloropropane	RW2-Dup	0411051-01	11/9/04	8260	1,3-Dichloropropane	#N/A	1	U	ug/L
7833	1,4-Dichlorobenzene	RW2-Dup	0411051-01	11/9/04	8260	1,4-Dichlorobenzene	#N/A	1	U	ug/L
7834	2,2-Dichloropropane	RW2-Dup	0411051-01	11/9/04	8260	2,2-Dichloropropane	#N/A	1	U	ug/L
7835	2-Chlorotoluene	RW2-Dup	0411051-01	11/9/04	8260	2-Chlorotoluene	#N/A	1	U	ug/L
7836	2-Hexanone	RW2-Dup	0411051-01	11/9/04	8260	2-Hexanone	#N/A	10	U	ug/L
7837	4-Chlorotoluene	RW2-Dup	0411051-01	11/9/04	8260	4-Chlorotoluene	#N/A	1	U	ug/L
7838	4-Methyl-2-pentanone	RW2-Dup	0411051-01	11/9/04	8260	4-Methyl-2-pentanone	#N/A	20	U	ug/L
7839	Acrylonitrile	RW2-Dup	0411051-01	11/9/04	8260	Acrylonitrile	#N/A	5	U	ug/L
7840	Bromobenzene	RW2-Dup	0411051-01	11/9/04	8260	Bromobenzene	#N/A	1	U	ug/L
7841	Bromochloromethane	RW2-Dup	0411051-01	11/9/04	8260	Bromochloromethane	#N/A	1	U	ug/L
7842	Bromodichloromethane	RW2-Dup	0411051-01	11/9/04	8260	Bromodichloromethane	#N/A	1	U	ug/L
7843	Bromomethane	RW2-Dup	0411051-01	11/9/04	8260	Bromomethane	#N/A	1	U	ug/L
7844	Carbon tetrachloride	RW2-Dup	0411051-01	11/9/04	8260	Carbon tetrachloride	#N/A	1	U	ug/L
7845	Chlorobenzene	RW2-Dup	0411051-01	11/9/04	8260	Chlorobenzene	#N/A	1	U	ug/L
7846	Chloroethane	RW2-Dup	0411051-01	11/9/04	8260	Chloroethane	#N/A	1	U	ug/L
7847	Chloroform	RW2-Dup	0411051-01	11/9/04	8260	Chloroform	#N/A	1	U	ug/L
7848	Chloromethane	RW2-Dup	0411051-01	11/9/04	8260	Chloromethane	#N/A	1	U	ug/L
7849	cis-1,2-Dichloroethene	RW2-Dup	0411051-01	11/9/04	8260	cis-1,2-Dichloroethene	#N/A	1	U	ug/L
7850	cis-1,3-Dichloropropene	RW2-Dup	0411051-01	11/9/04	8260	cis-1,3-Dichloropropene	#N/A	1	U	ug/L
7851	Dibromochloromethane	RW2-Dup	0411051-01	11/9/04	8260	Dibromochloromethane	#N/A	1	U	ug/L
7852	Dibromomethane	RW2-Dup	0411051-01	11/9/04	8260	Dibromomethane	#N/A	1	U	ug/L
7853	Dichlorodifluoromethane	RW2-Dup	0411051-01	11/9/04	8260	Dichlorodifluoromethane	#N/A	1	U	ug/L
7854	Hexachlorobutadiene	RW2-Dup	0411051-01	11/9/04	8260	Hexachlorobutadiene	#N/A	1	U	ug/L
7855	Methylene chloride	RW2-Dup	0411051-01	11/9/04	8260	Methylene chloride	#N/A	20	U	ug/L
7856	Tetrachloroethene	RW2-Dup	0411051-01	11/9/04	8260	Tetrachloroethene	#N/A	1	U	ug/L
7857	trans-1,2-Dichloroethene	RW2-Dup	0411051-01	11/9/04	8260	trans-1,2-Dichloroethene	#N/A	1	U	ug/L
7858	trans-1,3-Dichloropropene	RW2-Dup	0411051-01	11/9/04	8260	trans-1,3-Dichloropropene	#N/A	1	U	ug/L
7859	Trichloroethene	RW2-Dup	0411051-01	11/9/04	8260	Trichloroethene	#N/A	1	U	ug/L
7860	Trichlorofluoromethane	RW2-Dup	0411051-01	11/9/04	8260	Trichlorofluoromethane	#N/A	1	U	ug/L
7861	Vinyl chloride	RW2-Dup	0411051-01	11/9/04	8260	Vinyl chloride	#N/A	1	U	ug/L
7862	1,2,4-Trichlorobenzene	RW2-Dup	0411051-01	11/9/04	8270	1,2,4-Trichlorobenzene	#N/A	0.984	U	ug/L
7863	1,2-Dichlorobenzene	RW2-Dup	0411051-01	11/9/04	8270	1,2-Dichlorobenzene	#N/A	0.984	U	ug/L
7864	1,3-Dichlorobenzene	RW2-Dup	0411051-01	11/9/04	8270	1,3-Dichlorobenzene	#N/A	0.984	U	ug/L
7865	1,4-Dichlorobenzene	RW2-Dup	0411051-01	11/9/04	8270	1,4-Dichlorobenzene	#N/A	0.984	U	ug/L
7866	2,4-Dichlorophenol	RW2-Dup	0411051-01	11/9/04	8270	2,4-Dichlorophenol	#N/A	2.95	U	ug/L
7867	2,4-Dinitrophenol	RW2-Dup	0411051-01	11/9/04	8270	2,4-Dinitrophenol	#N/A	9.84	U	ug/L
7868	2,4-Dinitrotoluene	RW2-Dup	0411051-01	11/9/04	8270	2,4-Dinitrotoluene	#N/A	4.92	U	ug/L
7869	2,6-Dinitrotoluene	RW2-Dup	0411051-01	11/9/04	8270	2,6-Dinitrotoluene	#N/A	4.92	U	ug/L
7870	2-Chloronaphthalene	RW2-Dup	0411051-01	11/9/04	8270	2-Chloronaphthalene	#N/A	0.984	U	ug/L
7871	2-Chlorophenol	RW2-Dup	0411051-01	11/9/04	8270	2-Chlorophenol	#N/A	0.984	U	ug/L
7872	2-Methylphenol	RW2-Dup	0411051-01	11/9/04	8270	2-Methylphenol	#N/A	1.97	U	ug/L
7873	2-Nitroaniline	RW2-Dup	0411051-01	11/9/04	8270	2-Nitroaniline	#N/A	4.92	U	ug/L
7874	2-Nitrophenol	RW2-Dup	0411051-01	11/9/04	8270	2-Nitrophenol	#N/A	4.92	U	ug/L
7875	3,3'-Dichlorobenzidine	RW2-Dup	0411051-01	11/9/04	8270	3,3'-Dichlorobenzidine	#N/A	4.92	U	ug/L
7876	3-Nitroaniline	RW2-Dup	0411051-01	11/9/04	8270	3-Nitroaniline	#N/A	5.91	U	ug/L
7877	4,6-Dinitro-2-methylphenol	RW2-Dup	0411051-01	11/9/04	8270	4,6-Dinitro-2-methylphenol	#N/A	9.84	U	ug/L
7878	4-Bromophenyl phenyl ether	RW2-Dup	0411051-01	11/9/04	8270	4-Bromophenyl phenyl ether	#N/A	0.984	U	ug/L
7879	4-Chloro-3-methylphenol	RW2-Dup	0411051-01	11/9/04	8270	4-Chloro-3-methylphenol	#N/A	1.97	U	ug/L
7880	4-Chloroaniline	RW2-Dup	0411051-01	11/9/04	8270	4-Chloroaniline	#N/A	2.95	U	ug/L
7881	4-Chlorophenyl phenyl ether	RW2-Dup	0411051-01	11/9/04	8270	4-Chlorophenyl phenyl ether	#N/A	0.984	U	ug/L
7882	4-Nitroaniline	RW2-Dup	0411051-01	11/9/04	8270	4-Nitroaniline	#N/A	4.92	U	ug/L
7883	4-Nitrophenol	RW2-Dup	0411051-01	11/9/04	8270	4-Nitrophenol	#N/A	4.92	U	ug/L
7884	Benz(a)anthracene	RW2-Dup	0411051-01	11/9/04	8270	Benz(a)anthracene	#N/A	0.984	U	ug/L

	A	B	C	D	E	F	G	H	I	J
7885	Benzo(a)pyrene	RW2-Dup	0411051-01	11/9/04	8270	Benzo(a)pyrene	#N/A	0.984	U	ug/L
7886	Benzo(b)fluoranthene	RW2-Dup	0411051-01	11/9/04	8270	Benzo(b)fluoranthene	#N/A	0.984	U	ug/L
7887	Benzo(g,h,i)perylene	RW2-Dup	0411051-01	11/9/04	8270	Benzo(g,h,i)perylene	#N/A	0.984	U	ug/L
7888	Benzo(k)fluoranthene	RW2-Dup	0411051-01	11/9/04	8270	Benzo(k)fluoranthene	#N/A	0.984	U	ug/L
7889	Benzyl Alcohol	RW2-Dup	0411051-01	11/9/04	8270	Benzyl Alcohol	#N/A	4.92	U	ug/L
7890	Bis(2-chloroethoxy)methane	RW2-Dup	0411051-01	11/9/04	8270	Bis(2-chloroethoxy)methane	#N/A	0.984	U	ug/L
7891	Bis(2-chloroethyl)ether	RW2-Dup	0411051-01	11/9/04	8270	Bis(2-chloroethyl)ether	#N/A	1.97	U	ug/L
7892	Bis(2-chloroisopropyl)ether	RW2-Dup	0411051-01	11/9/04	8270	Bis(2-chloroisopropyl)ether	#N/A	0.984	U	ug/L
7893	Butyl benzyl phthalate	RW2-Dup	0411051-01	11/9/04	8270	Butyl benzyl phthalate	#N/A	0.984	U	ug/L
7894	Carbazole	RW2-Dup	0411051-01	11/9/04	8270	Carbazole	#N/A	0.984	U	ug/L
7895	Chrysene	RW2-Dup	0411051-01	11/9/04	8270	Chrysene	#N/A	0.984	U	ug/L
7896	Dibenz(a,h)anthracene	RW2-Dup	0411051-01	11/9/04	8270	Dibenz(a,h)anthracene	#N/A	0.984	U	ug/L
7897	Diethyl phthalate	RW2-Dup	0411051-01	11/9/04	8270	Diethyl phthalate	#N/A	0.984	U	ug/L
7898	Dimethyl phthalate	RW2-Dup	0411051-01	11/9/04	8270	Dimethyl phthalate	#N/A	0.984	U	ug/L
7899	Di-n-butyl phthalate	RW2-Dup	0411051-01	11/9/04	8270	Di-n-butyl phthalate	#N/A	0.984	U	ug/L
7900	Di-n-octyl phthalate	RW2-Dup	0411051-01	11/9/04	8270	Di-n-octyl phthalate	#N/A	0.984	U	ug/L
7901	Fluoranthene	RW2-Dup	0411051-01	11/9/04	8270	Fluoranthene	#N/A	0.984	U	ug/L
7902	Hexachlorobenzene	RW2-Dup	0411051-01	11/9/04	8270	Hexachlorobenzene	#N/A	0.984	U	ug/L
7903	Hexachlorobutadiene	RW2-Dup	0411051-01	11/9/04	8270	Hexachlorobutadiene	#N/A	1.97	U	ug/L
7904	Hexachlorocyclopentadiene	RW2-Dup	0411051-01	11/9/04	8270	Hexachlorocyclopentadiene	#N/A	4.92	U	ug/L
7905	Hexachloroethane	RW2-Dup	0411051-01	11/9/04	8270	Hexachloroethane	#N/A	1.97	U	ug/L
7906	Indeno(1,2,3-cd)pyrene	RW2-Dup	0411051-01	11/9/04	8270	Indeno(1,2,3-cd)pyrene	#N/A	0.984	U	ug/L
7907	Nitrobenzene	RW2-Dup	0411051-01	11/9/04	8270	Nitrobenzene	#N/A	0.984	U	ug/L
7908	N-Nitrosodimethylamine	RW2-Dup	0411051-01	11/9/04	8270	N-Nitrosodimethylamine	#N/A	0.984	U	ug/L
7909	N-Nitrosodi-n-propylamine	RW2-Dup	0411051-01	11/9/04	8270	N-Nitrosodi-n-propylamine	#N/A	1.97	U	ug/L
7910	N-Nitrosodiphenylamine	RW2-Dup	0411051-01	11/9/04	8270	N-Nitrosodiphenylamine	#N/A	0.984	U	ug/L
7911	Phenanthrene	RW2-Dup	0411051-01	11/9/04	8270	Phenanthrene	#N/A	0.984	U	ug/L
7912	Pyrene	RW2-Dup	0411051-01	11/9/04	8270	Pyrene	#N/A	0.984	U	ug/L
7913	Pyridine	RW2-Dup	0411051-01	11/9/04	8270	Pyridine	#N/A	4.92	U	ug/L
7914	Turbidity	RW2-Dup	0411051-01	11/9/04	FIELD	Turbidity	#N/A	0		ntu

	A	B	C	D	E	F	G	H
1								
2								
3	**LOOKUP COMPOUNDS**							
4			Analytes by					
5			Mulitple methods				Analytes by	
6							Mulitple methods	
7								
8					Pentachlorophenol	3	SIM	
9	Pentachlorophenol	3	SIM		Pentachlorophenol	25	SVOC	
10		4			2-Methylnaphthalene	19	SVOC	
11		5			2-Methylnaphthalene	120	PAH	(No Specialty PAH 2-Methylnaphthalene - NA)
12		6			Acenaphthene	22	SVOC	
13		7			Acenaphthene	122	PAH	
14		8			Dibenzofuran	23	SVOC	
15		9			Dibenzofuran	125	PAH	(No Specialty PAH Dibenzofuran - NA)
16		10			Fluorene	24	SVOC	
17		11			Fluorene	123	PAH	
18		12			Naphthalene	18	SVOC	
19	Phenol	13			Naphthalene	48	VOC	
20	3-&4-Methylphenol	14			Naphthalene	119	PAH	
21	Isophorone	15						
22	2,4-Dimethylphenol	16						
23	Benzoic Acid	17						
24	Naphthalene	18	SVOC					
25	2-Methylnaphthalene	19	SVOC					
26	2,4,6-Trichlorophenol	20						
27	2,4,5-Trichlorophenol	21						
28	Acenaphthene	22	SVOC					
29	Dibenzofuran	23	SVOC					
30	Fluorene	24	SVOC					
31	Pentachlorophenol	25	SVOC					
32	Bis(2-ethylhexyl)phthalate	26						
33		27						
34		28						
35		29						
36	Acetone	30						
37	Carbon disulfide	31						
38	2-Butanone	32						
39	Benzene	33						
40	Bromoform	34						
41	Toluene	35						
42	Ethylbenzene	36						
43	Styrene	37						
44	m,p-Xylene	38						
45	o-Xylene	39						
46	1,3,5-Trimethylbenzene	40						
47	1,2,4-Trimethylbenzene	41						
48	Isopropylbenzene	42						
49	n-Propylbenzene	43						
50	tert-Butylbenzene	44						
51	sec-Butylbenzene	45						
52	4-Isopropyltoluene	46						
53	n-Butylbenzene	47						
54	Naphthalene	48	VOC					
55	Methyl tert-butyl ether	49						
56		50						
57		51						
58		52						
59	Diesel Range Hydrocarbons	53						
60	Lube Oil	54						
61	Gasoline Range Hydrocarbons	55						
62		56						
63		57						
64		58						
65	Arsenic	59						
66	Chromium	60						
67	Copper	61						
68	Lead	62						
69	Nickel	63						
70	Zinc	64						
71		65						

	A	B	C	D	E	F	G	H
72		66						
73		67						
74		68						
75		69						
76		70						
77		71						
78		72						
79		73						
80	Total Dissolved Solids	74						
81	Chloride	75						
82		76						
83		77						
84		78						
85		79						
86		80						
87		81						
88	pH	82						
89	Temperature	83						
90	Conductivity	84						
91	Dissolved oxygen	85						
92		86						
93	**DIOXINS AND FURANS (ng/L)**	87						
94	**Method 8290**	88						
95	2,3,7,8-TCDF	89						
96	Total TCDF	90						
97	2,3,7,8-TCDD	91						
98	Total TCDD	92						
99	1,2,3,7,8-PeCDF	93						
100	2,3,4,7,8-PeCDF	94						
101	Total PeCDF	95						
102	1,2,3,7,8-PeCDD	96						
103	Total PeCDD	97						
104	1,2,3,4,7,8-HxCDF	98						
105	1,2,3,6,7,8-HxCDF	99						
106	2,3,4,6,7,8-HxCDF	100						
107	1,2,3,7,8,9-HxCDF	101						
108	Total HxCDF	102						
109	1,2,3,4,7,8-HxCDD	103						
110	1,2,3,6,7,8-HxCDD	104						
111	1,2,3,7,8,9-HxCDD	105						
112	Total HxCDD	106						
113	1,2,3,4,6,7,8-HpCDF	107						
114	1,2,3,4,7,8,9-HpCDF	108						
115	Total HpCDF	109						
116	1,2,3,4,6,7,8-HpCDD	110						
117	Total HpCDD	111						
118	OCDF	112						
119	OCDD	113						
120		114						
121	**ETHANOL (mg/L)**	115						
122		116						
123	**PAHs (µg/L)**	117						
124	**EPA Method SW8270 SIM**	118						
125	Naphthalene	119	PAH					
126	2-Methylnaphthalene	120	PAH	(No Specialty 2-Methylnaphthalene - NA)				
127	Acenaphthylene	121	PAH	Use only this PAH acenaphthylene - delete SVOC				
128	Acenaphthene	122	PAH					
129	Fluorene	123	PAH					
130	Anthracene	124		Use only this PAH anthracene - delete SVOC				
131	Dibenzofuran	125	PAH	(No Specialty Dibenzofuran - NA)				

	A
1	BOLD DETECTS WHEN DATA IS STILL IN ROWS AS .CSV FILE
2	DATE FORMAT MM/DD/YY
3	REMOVE "00" FROM SITE NAMES BEFORE COPY
4	BEGINNING 1Q04 WITH SPECIALTY, TWO PAH COMPOUNDS NOT ANALYZED (2-Methlynaphthalene and Dibenzofuran) - ENTER NA FOR THESE
5	WATCH METALS (ARESENIC AND LEAD) METHOD 6020 AND GASOLINE - UNITS IN PPB - CONVERT FOR THESE TABLES
6	DETERMINE DUPS. "Dup of WellName" (Dup of B1) and Duplicate Name(X) are entered on Table
7	FIELD PARAMETERS: pH, Temp, Cond, and DO only (delete redox, turbidity)
8	USE LOOKUP TO DELETE UNNECESSARY COMPOUNDS; ADJUST ORDER OF COMPOUNDS EXISTING IN MULTIPLE METHODS (SEE LOOKUP TAB)
9	Acenaphthylene and Anthracene - Only use PAH by 8270SIM, not 8270SVOC (delete these)

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1	
4			S177D		T176N		U235H		V224R		W371K		Y336A		Z225M		Z960E		AH49B		AU36A		BC30D		9912050-01A	
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/21/99		12/8/99		12/8/1999 (d)	
7	1	**CHLORINATED PHENOLS (µg/L)**																								
8	2	**EPA Method SW8040**																								
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
16	10																									
17	11	**SEMIVOLATILES (µg/L)**																								
18	12	**EPA Method SW8270**																								
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	**3.1**	M	2.0	U	2.0	U	NA	
20	14	4-Methylphenol	**43**		1.0	U	1.0	U	**24**		**39**		**28**		**31**		**35**		**7.1**		1.0	U	**7.0**		NA	
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	NA	
23	17	Benzoic Acid	10	U	10	U	10	U	**10**		10	U	10	U	10	U	10	U	**27**		10	U	10	U	NA	
24	18	Naphthalene	**16**		**12**		**18**		**16**		**20**	J2	**6.8**		**4.4**		**35**		**26**		1.0	U	**12**		NA	
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	**1.5**	J2	**1.1**		1.0	U	**6.4**		**3.8**		1.0	U	**2.1**		NA	
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA	
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA	
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	2.9	U	**2.8**	J2	1.0	U	1.0	U	1.0	U	**2.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
33	27																									
34	28	**VOLATILES (µg/L)**																								
35	29	**EPA Method SW8260**																								
36	30	Acetone	**24**		5.0	U	**6.5**		5.0	U	**75**		5.0	U	5.0	U	36	U	230	U	25	U	25	U	NA	
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	45	U	5.0	U	5.0	U	NA	
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	**11**		**20**		5.0	U	**51**		**11**		230	U	25	U	25	U	NA	
39	33	Benzene	1.0	U	1.0	U	1.0	U	**250**		**440**		**190**		**160**		**2400**		**210**		**66**		**190**		NA	
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	45	U	5.0	U	5.0	U	NA	
41	35	Toluene	**6.4**		1.0	U	1.0	U	**4.4**		**1400**		**450**		**190**		**4000**		**3700**		**920**		**290**		NA	
42	36	Ethylbenzene	**5.4**		**5.5**		**1.1**		**1.2**		**11**		**19**		**11**		**140**		**220**		**160**		**32**		NA	
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	**4.2**		**7.0**		**3.8**		**93**		**130**		5.0	U	**5.0**	U	NA	
44	38	m,p-Xylene	**1.2**		**2.5**		**1.1**		**1.7**		**22**		**50**		**33**		**450**		**730**		**390**		**100**		NA	
45	39	o-Xylene	**1.1**		**1.2**		1.0	U	1.0	U	**7.4**		**22**		**14**		**210**		**360**		**200**		**44**		NA	
46	40	1,3,5-Trimethylbenzene	**2.5**		**3.6**		**12**		**6.4**		**13**		**4.8**		**3.8**		**25**		45	U	**8.8**		**5.2**		NA	
47	41	1,2,4-Trimethylbenzene	**4.6**		**8.8**		**47**	J2	**36**		**110**		**30**		**19**		**140**		**88**		**44**		**24**		NA	
48	42	Isopropylbenzene	**7.7**		**9.5**		**34**	J2	**23**		**34**		**11**		**7.4**		**28**		45	U	**9.1**		**6.2**		NA	
49	43	n-Propylbenzene	**3.1**		**4.9**		**21**		**17**		**29**		**13**		**8.8**		**36**		45	U	**9.7**		**8.2**		NA	
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	45	U	5.0	U	5.0	U	NA	
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	45	U	5.0	U	5.0	U	NA	
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	45	U	5.0	U	5.0	U	NA	
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.2**		1.0	U	**1.0**		45	U	5.0	U	5.0	U	NA	
54	48	Naphthalene	**25**		**20**	J2	**52**	J2	**23**		**31**		**12**		**11**		**56**		230	U	25	U	25	U	NA	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																									
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	51	**Method OR-DEQ**																								
59	52	**TPH-Diesel**	**0.68**		**0.75**		**1.1**		**1.2**		**1.2**		**0.51**		**1.0**		**9.5**		**2.0**		**0.37**		**0.46**		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																									
63	56	**PRIORITY POLLUTANT**																								
64	57	**METALS (mg/L)**																								
65	58	Arsenic (7060)	**0.006**		**0.008**		0.05	U	0.05	U	**0.010**		**0.008**		**0.008**		**0.004**		**0.006**		**0.008**		**0.006**		NA	

BZTO104(e)022123

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
2																Dup of B1										Dup of B1	
3		B1		B1		B1		B1		B1		B1		B1		X		B1		B1		B1		B1		X	
4		BH96T		BR55M		CB68E		CL03B		CT67H		DE68L		DM30L		DM30K		DW37B		ED23A		EM75J		ES04G		ES04A	
5		2/16/00		5/23/00		8/29/00		11/10/00		2/15/01		6/5/01		8/14/01		8/14/01		11/28/01		2/26/02		6/25/02		08/28/02		08/28/02	
7	**CHLORINATED PHENOLS (µg/L)**																										
8	**EPA Method SW8040**																										
9	Pentachlorophenol	**0.14**	J1	**0.27**	J2	**0.43**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.65**		**1.0**		0.25	U	0.29	U	0.29	U
10	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																											
17	**SEMIVOLATILES (µg/L)**																										
18	**EPA Method SW8270**																										
19	Phenol	**4.6**		2.0	U	3.0	U	2.0	U	**2.6**		100	UJ	2.0	U	2.0	U	**6.2**		**15**		2.0	U	2.3	U	2.3	U
20	4-Methylphenol	**57**		**20**		**47**		**5.6**		**8.4**		**130**	J	**50**		**54**		**44**		**170**		**46**		1.2	U	**1.3**	
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.2	U
22	2,4-Dimethylphenol	**7.7**		3.0	U	3.0	U	3.0	U	3.0	U	150	UJ	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	**4.1**		**4.5**	
23	Benzoic Acid	10	U	**160**		**73**		10	U	10	U	500	UJ	10	U	10	U	50	U	50	U	50	U	58	U	58	U
24	Naphthalene	**51**		**34**		**27**		**2.0**		**5.1**		50	UJ	**13**		**14**		1.0	U	**17**		**15**		**2.8**		**3.3**	
25	2-Methylnaphthalene	**19**		**12**		**9.6**		1.0	U	1.0	U	50	UJ	**6.8**		**7.4**		1.0	U	**10**		**5.9**		1.2	U	**1.8**	
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	250	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.8	U	5.8	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	250	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.8	U	5.8	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.2	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.2	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.2	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	250	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.8	U	5.8	U
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	UJ	1.0	U	1.0	U	1.0	U	4.0	U	4.0	U	4.7	U	4.7	U
33																											
34	**VOLATILES (µg/L)**																										
35	**EPA Method SW8260**																										
36	Acetone	5.0	U	5.0	U	**410**		5.0	U	**1200**		**1100**		**230**		**280**		37	U	**250**		**18**		25	U	25	U
37	Carbon Disulfide	1.0	U	1.0	U	25	U	1.0	U	30	U	20	U	20	U	20	U	1.0	U	1.0	U	3.0	U	5	U	5	U
38	2-Butanone	55	U	**6.1**		120	U	**28**		**260**		100	U	100	U	**160**		**13**		**54**		15	U	25	U	25	U
39	Benzene	**4700**		**990**		**1100**		**160**		**610**		**560**		**180**	J	**230**	J	**120**		**1000**		**240**		**160**		**130**	
40	Bromoform	1.0	U	1.0	U	25	U	1.0	U	30	U	20	U	20	U	20	U	1.0	U	1.0	U	3.0	U	5	U	5	U
41	Toluene	**4700**		**1800**		**3600**		**1200**		**2000**		**3400**		**1400**	J	**1900**	J	**800**		**2800**		**520**		**210**		**210**	
42	Ethylbenzene	**160**		**110**		**300**		**100**		**160**		**220**		**130**		**150**		**86**		**170**		**97**		**88**		**74**	
43	Styrene	**29**		**8.3**	M	25	U	1.0	U	30	U	20	U	20	U	20	U	1.0	U	**4.3**		3.0	U	5	U	5	U
44	m,p-Xylene	**1000**		**340**		**990**		**320**		**590**		**830**		**450**		**530**		**350**		**290**		**270**		**230**		**210**	
45	o-Xylene	**490**		**180**		**420**		**160**		**240**		**370**		**210**		**250**		**180**		**210**		**150**		**120**		**100**	
46	1,3,5-Trimethylbenzene	**46**		**18**		**37**		**15**		**31**		**37**		**33**		**37**		**29**		**37**		**22**		**18**		**19**	
47	1,2,4-Trimethylbenzene	**150**		**72**		**160**		**61**		**100**		**160**		**110**		**130**		**100**		**94**		**73**		**54**		**56**	
48	Isopropylbenzene	**28**		**10**		25	U	**9.0**		30	U	20	U	20	U	20	U	**11**		**12**		**11**		**7**		**8.5**	
49	n-Propylbenzene	**40**		**17**		**31**		**15**		30	U	**33**		**22**		**24**		**19**		**15**		**16**		**12**		**13**	
50	tert-Butylbenzene	1.0	U	1.0	U	25	U	1.0	U	30	U	20	U	20	U	20	U	1.0	U	1.0	U	3.0	U	5	U	5	U
51	sec-Butylbenzene	**2.8**		**1.4**		25	U	1.0	U	30	U	20	U	20	U	20	U	1.0	U	1.0	U	3.0	U	5	U	5	U
52	4-Isopropyltoluene	**2.7**		**1.1**		25	U	1.0	U	30	U	20	U	20	U	20	U	1.0	U	**1.0**		3.0	U	5	U	5	U
53	n-Butylbenzene	**4.5**		2.0	U	25	U	1.8	U	30	U	20	U	20	U	20	U	3.2	U	**4.0**	M	3.0	U	5	U	5	U
54	Naphthalene	**82**		**36**		120	U	**25**		150	U	100	U	100	U	100	U	**39**		**37**		**24**		25	U	25	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																											
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	**Method OR-DEQ**																										
59	**TPH-Diesel**	**4.8**		**0.44**		**1.4**		**0.37**		**2.1**		**47**		**8.7**	J	**6.9**	J	**0.94**		**12**		**1.3**		**0.64**		**0.9**	
60	**TPH-D Motor Oil**	NA		0.50	U	0.50	U	0.50	U	0.50	U	5.0	U	5.0	U	5.0	U	0.5	U	0.50	U	0.50	U	0.5	U	0.5	U
61	**TPH-Gasoline**	NA		**17**		**36**		**8.8**		**15**		**25**		**19**		**19**		**6.8**		**16**		**7.6**		**4.8**	J	**3.4**	J
62																											
63	**PRIORITY POLLUTANT**																										
64	**METALS (mg/L)**																										
65	Arsenic (7060)	**0.006**		**0.004**		**0.007**		**0.007**		**0.007**		**0.010**		**0.009**		**0.009**		**0.007**		**0.006**		**0.006**		**0.004**	J	**0.006**	J

BZTO104(e)022124

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
3		B1		B1		B1		B1		B1		B1		B1	
4		EY88C		FF88O		FL41H		FU50E		FY64D		0402099-01		0408019-02	
5		11/11/02		2/13/03		5/7/03		8/29/03		10/20/03		2/19/04		8/03/04	
7	**CHLORINATED PHENOLS (µg/L)**														
8	**EPA Method SW8040**														
9	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.5	U	0.52	U	**2.46**	J	0.5	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
16															
17	**SEMIVOLATILES (µg/L)**														
18	**EPA Method SW8270**														
19	Phenol	2.2	U	2	U	**3.1**	M	2	U	2.1	U	1.91	U	1.96	U
20	4-Methylphenol	1.1	U	**36**		**28**		1	U	1	U	**12**		9.8	U
21	Isophorone	1.1	U	1	U	1	U	1	U	1	U	0.956	U	0.98	U
22	2,4-Dimethylphenol	3.3	U	6.7	U	3	U	3	U	**4.4**		2.87	U	2.94	U
23	Benzoic Acid	54	U	51	U	50	U	50	U	10	U	19.1	U	19.6	U
24	Naphthalene	1.1	U	1	U	**1.8**		**2.7**		**3.5**		**1.23**		0.98	U
25	2-Methylnaphthalene	1.1	U	1	U	1	U	**1.4**		**3**		0.956	U	0.98	U
26	2,4,6-Trichlorophenol	5.4	U	5.1	U	5	U	5	U	5.2	U	4.78	U	4.9	U
27	2,4,5-Trichlorophenol	5.4	U	5.1	U	5	U	5	U	5.2	U	4.78	U	4.9	U
28	Acenaphthene	1.1	U	1	U	1	U	1	U	1	U	0.956	U	0.98	U
29	Dibenzofuran	1.1	U	1	U	1	U	1	U	1	U	0.956	U	0.98	U
30	Fluorene	1.1	U	1	U	1	U	1	U	1	U	0.956	U	0.98	U
31	Pentachlorophenol	5.4	U	5.1	U	5	U	5	U	5.2	U	4.78	U	4.9	U
32	bis(2-Ethylhexyl)phthalate	4.3	U	1	U	1	U	1	U	**6.3**		0.956	U	0.98	U
33															
34	**VOLATILES (µg/L)**														
35	**EPA Method SW8260**														
36	Acetone	5	U	**78**		**61**	M	**28**		5	U	50	U	50	U
37	Carbon Disulfide	1	U	1	U	1	U	1	U	1	U	2	U	2	U
38	2-Butanone	5	U	**8.2**	M	**8.1**	M	5	U	5	U	10	U	10	U
39	Benzene	**19**		**65**		**82**		**20**		**5.6**		**36.9**		**1.71**	J
40	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	**61**		**100**		**100**		**22**		**2.1**		**9.07**		1	U
42	Ethylbenzene	**22**		**51**		**130**	J	**80**		**31**		**55.2**		**27.5**	J
43	Styrene	1	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	**71**		**130**		**110**	J	**99**		**40**		**25.2**		**20.8**	J
45	o-Xylene	**26**		**75**		**86**	J	**35**		**9.2**		**15.2**		**2.6**	J
46	1,3,5-Trimethylbenzene	**9.3**		**18**		**11**	J	**9.3**		**3.6**		**9.64**		**1.15**	J
47	1,2,4-Trimethylbenzene	**30**		**57**		**30**	J	**28**		**12**		**26.6**		**3.13**	J
48	Isopropylbenzene	**21**		**9.7**		**6.3**	J	**5.2**		**3.3**		**5.53**		**1.95**	J
49	n-Propylbenzene	**26**		**15**		**7.6**	J	**7.3**		**4.5**		**8.05**		**2.57**	J
50	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	**2.2**		1	U	**1**	J	**1**		1	U	1	U	1	U
52	4-Isopropyltoluene	1	U	**1.1**		1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	**2.2**		2.8	U	**1.8**	J	**1.6**	M	1	U	1	U	1	U
54	Naphthalene	**9.1**		**13**		**5.8**		**7.3**		5	U	**5.47**		**1.03**	J
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		1	U	1	U
56															
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**														
58	**Method OR-DEQ**														
59	**TPH-Diesel**	**0.84**		**6.8**		**2.4**		**1.6**		**2.7**		**2.26**		**0.978**	
60	**TPH-D Motor Oil**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.477	U	0.503	U
61	**TPH-Gasoline**	**2.4**		**4.6**		**4.8**		**3.0**		**1.2**		**2.6**		**0.652**	
62															
63	**PRIORITY POLLUTANT**														
64	**METALS (mg/L)**														
65	Arsenic (7060)	0.05	U	**0.012**		**0.007**		**0.007**		**0.007**		**0.003**		**0.00636**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1	
4			S177D		T176N		U235H		V224R		W371K		Y336A		Z225M		Z960E		AH49B		AU36A		BC30D		9912050-01A	
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/21/99		12/8/99		12/8/1999 (d)	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	NA	
67	60	Copper (6010)	**0.009**		**0.009**		**0.004**		**0.006**		**0.002**		0.002	U	0.002	U	**0.078**		**0.043**		**0.008**		0.002	U	NA	
68	61	Lead (7421)	0.001	U	**0.001**		0.02	U	0.02	U	**0.003**		0.001	U	0.001	U	**0.002**		**0.002**		0.001	U	0.001	U	NA	
69	62	Nickel (6010)	**0.02**		**0.01**		0.01	U	**0.02**		**0.02**		**0.02**		0.01	U	**0.04**		**0.03**		**0.03**		**0.01**		NA	
70	63	Zinc (6010)	0.004	U	**0.009**		**0.027**		**0.004**		**0.006**	J2	**0.011**		**0.005**		**0.017**	J	**0.006**		**0.009**		0.006	U	NA	
71	64																									
72	65	**MAJOR IONS AND CONVENTIONALS**																								
73	66	Calcium (mg/L) (6010)	**42.2**		**25.7**		**16.3**		**26.7**		NA		NA		NA		**16.5**		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**16.3**		**9.41**		**6.93**		**9.05**		NA		NA		NA		**3.94**		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**4.2**		**3.3**		**3.2**		**3.4**		NA		NA		NA		**2.7**		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**8.65**		**7.49**		**7.88**		**7.63**		NA		NA		NA		**6.29**		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**190**		**140**	J2	**130**		**170**		NA		NA		NA		**43**		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**190**		**140**	J2	**130**		**170**		NA		NA		NA		**43**		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**200**	J2	**190**		**290**		**360**		**430**		**260**		**170**		**210**		**160**		**150**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	**5.1**		**5.9**		**5.6**		**4.3**		**3.5**		**3.4**		**2.4**		**2.0**		**7.9**		**3.8**		**6.6**		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.014**		0.010	U	**0.023**		**0.036**	J2	NA		NA		NA		0.010	U	NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.017	J	**0.053**	J2	**0.033**		0.010	UJ	NA		NA		NA		**0.015**		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	0.031		**0.032**	J2	**0.056**		**0.036**	J2	NA		NA		NA		**0.013**		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	2.5	U	2.5	U	**5.3**		2.5	U	NA		NA		NA		**2.8**		NA		NA		NA		NA	
86	79																									

BZTO104(e)022126

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2																Dup of B1										Dup of B1	
3		B1		B1		B1		B1		B1		B1		B1		X		B1		B1		B1		B1		X	
4		BH96T		BR55M		CB68E		CL03B		CT67H		DE68L		DM30L		DM30K		DW37B		ED23A		EM75J		ES04G		ES04A	
5		2/16/00		5/23/00		8/29/00		11/10/00		2/15/01		6/5/01		8/14/01		8/14/01		11/28/01		2/26/02		6/25/02		08/28/02		08/28/02	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	**0.004**		**0.004**		0.002	U	**0.081**		0.002	U	0.002	U	0.002	U	0.002	U	**0.016**	J	**0.062**		**0.016**		**0.004**		0.002	U
68	Lead (7421)	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.002**		0.001	U	0.001	U	**0.008**		**0.004**		**0.003**		0.001	U	0.001	U
69	Nickel (6010)	**0.06**		**0.03**		**0.01**		0.01	U	0.01	U	**0.12**		0.01	U	0.01	U	0.01	U	**0.08**		**0.07**		0.01	U	0.01	U
70	Zinc (6010)	**0.020**		0.006	U	0.006	U	0.006	U	**0.006**		**0.054**		0.006	U	0.006	U	**0.015**	J	**0.033**		**0.016**		**0.007**		0.006	U
71																											
72	**MAJOR IONS AND CONVENTIONALS**																										
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		**23.9**		**88.1**		**15.2**		**16.4**		**19.2**	J	**35.7**		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		**9.46**		**40.8**		**6.11**		**6.64**		**7.26**	J	**15.7**		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		**2.6**		**5.1**		**2.1**		**2.5**		**2.4**		**4.6**		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		**8.18**		**13.3**		**6.43**		**6.89**		**7.22**		**12.3**		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		**160**		NA		NA		NA		NA		**140**		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		1.0	U	NA		NA		NA		NA		1.0	U	NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		**160**		NA		NA		NA		NA		**140**		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**250**		**220**		**170**		**140**		**250**		**1400**		**140**		**130**		**150**		**430**		**330**		**140**		**140**	
81	Chloride (mg/L) (EPA 325.2)	**3.8**		**7.2**		**1.7**		**2.5**		**3.4**	J	**2.8**		**8.0**	J	**6.0**	J	**2.2**		**3.2**		**6.2**		**5.1**		**4**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		0.010	U	NA		NA		NA		NA		0.010	U	NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		**0.012**	J	NA		NA		NA		NA		**0.021**		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		**0.015**		NA		NA		NA		NA		**0.020**	J	NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		**2.8**		NA		NA		NA		NA		2.5	U	NA		NA		NA	
86																											

BZTO104(e)022127

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1															
2															
3		B1		B1		B1		B1		B1		B1		B1	
4		EY88C		FF88O		FL41H		FU50E		FY64D		0402099-01		0408019-02	
5		11/11/02		2/13/03		5/7/03		8/29/03		10/20/03		2/19/04		8/03/04	
66	Chromium (6010)	**0.03**		**0.017**		**0.008**		0.005	U	**0.006**		0.005	U	0.005	U
67	Copper (6010)	**0.073**		**0.107**		**0.041**		**0.004**		**0.015**		**0.0117**		0.01	U
68	Lead (7421)	**0.03**		**0.028**		**0.009**		0.001	U	**0.005**		**0.0007**		0.0001	U
69	Nickel (6010)	**0.05**		**0.04**		**0.03**		0.01	U	**0.01**		**0.0075**		0.005	U
70	Zinc (6010)	**0.119**		**0.085**		**0.037**	J	**0.007**		**0.018**		0.01	U	**0.0166**	
71															
72	**MAJOR IONS AND CONVENTIONALS**														
73	Calcium (mg/L) (6010)	NA		**17.3**		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		**8.66**		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		**3.6**		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		**7.8**		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		**70**		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		1	U	NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		**70**		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**150**		**170**		**140**		**210**		**210**		**116**		**215**	
81	Chloride (mg/L) (EPA 325.2)	**3**		**6.4**		**2.9**		**2.4**		**3**		**3.31**		**3.63**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		**0.029**		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		**0.03**		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		**0.059**		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		**5.7**		NA		NA		NA		NA		NA	
86															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1	
4			S177D		T176N		U235H		V224R		W371K		Y336A		Z225M		Z960E		AH49B		AU36A		BC30D		9912050-01A	
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/21/99		12/8/99		12/8/1999 (d)	
87	80	**FIELD PARAMETERS**																								
88	81	pH (avg)	6.59		6.61		6.64		6.41		5.64		5.28		5.37		5.11		5.36		6.18		5.93		NM	
89	82	Temperature (° C) (avg)	13.5		15.3		15.7		14.5		12.6		15.5		14.2		12.8		13.4		15.4		13.0		NM	
90	83	Conductivity (um/hos)	466		359		286		457		392		605		379		363		254		263		306		NM	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		1.29		1.83		1.75		2.18		2.20		2.61		1.81		NM	
92	85																									
93	86	**DIOXINS AND FURANS (ng/L)**																								
94	87	**Method 8290**																								
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120	113																									
121	114	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**4200**	J2	**6300**	J2
122	115																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2																Dup of B1										Dup of B1	
3		B1		B1		B1		B1		B1		B1		B1		X		B1		B1		B1		B1		X	
4		BH96T		BR55M		CB68E		CL03B		CT67H		DE68L		DM30L		DM30K		DW37B		ED23A		EM75J		ES04G		ES04A	
5		2/16/00		5/23/00		8/29/00		11/10/00		2/15/01		6/5/01		8/14/01		8/14/01		11/28/01		2/26/02		6/25/02		08/28/02		08/28/02	
87	**FIELD PARAMETERS**																										
88	pH (avg)	4.81		6.02		6.13		4.89		5.53		4.70		6.43		6.49		6.14		4.97		6.50		6.50		6.50	
89	Temperature (° C) (avg)	12.3		14.9		17.7		13.4		13.1		14.0		15.1		15.2		13.0		13.1		16.4		16.7		16.8	
90	Conductivity (um/hos)	335		297		243		222		297		1883		259		248		270		501		718		432		413	
91	Dissolved oxygen (mg/L) (avg)	2.15		1.55		1.51		0.84		1.08		1.42		1.59		1.61		3.58		5.92		4.21		0.79		0.60	
92																											
93	**DIOXINS AND FURANS (ng/L)**																										
94	**Method 8290**																										
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																											
121	**ETHANOL (mg/L)**	**5100**		**16**		5.0	U	5.0	U	**5.0**		NA		NA		NA		NA		NA		NA		NA		NA	
122																											

BZTO104(e)022130

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1															
2															
3		B1		B1		B1		B1		B1		B1		B1	
4		EY88C		FF88O		FL41H		FU50E		FY64D		0402099-01		0408019-02	
5		11/11/02		2/13/03		5/7/03		8/29/03		10/20/03		2/19/04		8/03/04	
87	**FIELD PARAMETERS**														
88	pH (avg)	6.8		6.34		6.23		6.52		6.51		4.99		7.5	
89	Temperature (° C) (avg)	15.8		14.2		14.4		16		15.9		14		15.8	
90	Conductivity (um/hos)	268		274		170		285		285		97		361	
91	Dissolved oxygen (mg/L) (avg)	1.64		0		2.54		1.73		1.48		1.77		NM	
92															
93	**DIOXINS AND FURANS (ng/L)**														
94	**Method 8290**														
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA	
120															
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA	
122															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1		B1	
4			S177D		T176N		U235H		V224R		W371K		Y336A		Z225M		Z960E		AH49B		AU36A		BC30D		9912050-01A	
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/21/99		12/8/99		12/8/1999 (d)	
123	116	**PAHs (µg/L)**																								
124	117	**EPA Method SW8270 SIM**																								
125	118	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	119	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	120	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	121	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	122	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	123	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	124	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2																Dup of B1										Dup of B1	
3		B1		B1		B1		B1		B1		B1		B1		X		B1		B1		B1		B1		X	
4		BH96T		BR55M		CB68E		CL03B		CT67H		DE68L		DM30L		DM30K		DW37B		ED23A		EM75J		ES04G		ES04A	
5		2/16/00		5/23/00		8/29/00		11/10/00		2/15/01		6/5/01		8/14/01		8/14/01		11/28/01		2/26/02		6/25/02		08/28/02		08/28/02	
123	**PAHs (µg/L)**																										
124	**EPA Method SW8270 SIM**																										
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

BZTO104(e)022133

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1															
2															
3		B1		B1		B1		B1		B1		B1		B1	
4		EY88C		FF88O		FL41H		FU50E		FY64D		0402099-01		0408019-02	
5		11/11/02		2/13/03		5/7/03		8/29/03		10/20/03		2/19/04		8/03/04	
123	**PAHs (µg/L)**														
124	**EPA Method SW8270 SIM**														
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		0.98	U
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		0.98	U
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

			D		D		D		D		D		D		D		D		D		D		D		D
			S177L		T176B		U235F		V208H		W391B		Y336D		Z225I		Z960I		AH76J		AU22D		BC27N		9912050-02A
			4/2/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/18/99		5/19/99		9/20/99		12/8/99		12/8/1999 (d)
1	**CHLORINATED PHENOLS (µg/L)**																								
2	**EPA Method SW8040**																								
3	Pentachlorophenol	0.25	U	0.25	U	**0.25**		0.25	U	**0.45**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
10																									
11	**SEMIVOLATILES (µg/L)**																								
12	**EPA Method SW8270**																								
13	Phenol	2.0	U	2.0	U	2.0	U	2.0	UJ	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	NA	
14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
15	Isophorone	**3.4**		**5.5**		**5.2**			R	1.0	U	1.0	U	1.0	U	**2.4**		1.0	U	1.0	U	1.0	U	NA	
16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	UJ	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	NA	
17	Benzoic Acid	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U	10	U	10	U	NA	
18	Naphthalene	1.0	U	1.0	U	1.0	U		R	1.0	U	1.0	U	1.0	U	**3.1**		1.0	U	1.0	U	**3.2**		NA	
19	2-Methylnaphthalene	1.2		1.0	U	1.0	U		R	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA	
21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA	
22	Acenaphthene	1.0	U	1.0	U	1.0	U		R	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
23	Dibenzofuran	1.0	U	1.0	U	1.0	U		R	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA	
26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**2.4**		1.0	U	NA	
27																									
28	**VOLATILES (µg/L)**																								
29	**EPA Method SW8260**																								
30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA	
31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA	
33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**3.7**		NA	
37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.9**		NA	
39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**2.6**		NA	
41	1,2,4-Trimethylbenzene	**2.2**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.2**		1.0	U	1.0	U	**15**		NA	
42	Isopropylbenzene	**1.6**		**2.7**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.7**		1.0	U	1.0	U	**11**		NA	
43	n-Propylbenzene	**1.7**		**2.5**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**5.6**		NA	
44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
45	sec-Butylbenzene	**1.6**		**2.1**		1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.5	U	NA	
46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
47	n-Butylbenzene	1.0	U	**1.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA	
48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA	
48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
49																									
50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
51	**Method OR-DEQ**																								
52	**TPH-Diesel**	**0.82**		**0.82**		**0.55**		0.25	U	**0.34**		**0.35**		0.25	U	**0.52**		0.25	U	0.25	U	**0.56**		NA	
53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
55																									
56	**PRIORITY POLLUTANT**																								
57	**METALS (mg/L)**																								
58	Arsenic (7060)	**0.013**		**0.013**		0.05	U	0.05	U	**0.016**		**0.014**		**0.018**		**0.021**		**0.015**		**0.016**		**0.015**		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
3		D		D		D		D		D		D		D		D		D		D		D		D		D	
4		BH96B		BR55E		CB49D		CK77F		CT37F		DE68G		DM30M		DW37E		ED34G		EM85B		ER93P		EZ03C		FF76G	
5		2/17/00		5/22/00		8/28/00		11/7/00		2/12/01		6/4/01		8/14/01		11/28/01		2/28/02		6/26/02		08/27/02		11/12/02		2/12/03	
7	**CHLORINATED PHENOLS (µg/L)**																										
8	**EPA Method SW8040**																										
9	Pentachlorophenol	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.55**		**0.32**		**0.38**		0.33	U	0.25	U	0.26	U
10	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																											
17	**SEMIVOLATILES (µg/L)**																										
18	**EPA Method SW8270**																										
19	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.6	U	2.2	U	2.1	U
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.3	U	1.1	U	1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.3	U	1.1	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.9	U	3.3	U	3.1	U
23	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	50	U	50	U	50	U	66	U	54	U	52	U
24	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**3**		1.0	U	1.3	U	1.1	U	1	U
25	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.3	U	1.1	U	1	U
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	6.6	U	5.4	U	5.2	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	6.6	U	5.4	U	5.2	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.3	U	1.1	U	1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.3	U	1.1	U	1	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.3	U	1.1	U	1	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	6.6	U	5.4	U	5.2	U
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**12**		4.0	U	4.0	U	5.3	U	4.3	U	1	U
33																											
34	**VOLATILES (µg/L)**																										
35	**EPA Method SW8260**																										
36	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	7.1	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U
38	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U
39	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U
41	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U
42	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.6**		**1.7**		1.0	U	1	U	1	U	1	U
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U
44	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.6**		1.0	U	1.0	U	1	U	1	U	1	U
45	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**2.0**		**1.9**		1.0	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	**1.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**23**		**38**		**1.2**		1	U	1	U	1	U
48	Isopropylbenzene	**2.5**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**6.0**		**7.7**		1.0	U	**3**		1	U	1	U
49	n-Propylbenzene	**1.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**2.7**		**7.7**		1.0	U	**3.6**		1	U	1	U
50	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U
51	sec-Butylbenzene	**2.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**5.3**		1.0	U	**2.1**		1	U	1	U
52	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.8**		1.0	U	1	U	1	U	1	U
53	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.5**		1.0	U	1	U	1	U	1	U
54	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	7.5	U	5.0	U	**8.2**		5.0	U	5	U	5	U	5	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																											
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	**Method OR-DEQ**																										
59	**TPH-Diesel**	**0.40**		0.25	U	0.25	U	0.25	U	**0.26**		NA		NA		NA		NA		NA		NA		NA		NA	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																											
63	**PRIORITY POLLUTANT**																										
64	**METALS (mg/L)**																										
65	Arsenic (7060)	**0.019**		**0.019**		**0.016**		**0.014**		**0.016**		**0.016**		**0.018**		**0.021**		**0.014**		**0.013**		**0.017**		0.05	U	**0.016**	

BZTO104(e)022136

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ
1											
2											
3		D		D		D		D		D	
4		FL58K		FU45C		FY82H		0402105-03		0408036-01	
5		5/8/03		8/28/03		10/23/03		2/20/04		8/05/04	
7	**CHLORINATED PHENOLS (µg/L)**										
8	**EPA Method SW8040**										
9	Pentachlorophenol	0.25	U	**0.86**	J	**0.61**		0.498	U	0.5	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16											
17	**SEMIVOLATILES (µg/L)**										
18	**EPA Method SW8270**										
19	Phenol	2	U	2	U	2	U	1.98	U	2	U
20	4-Methylphenol	1	U	1	U	1	U	9.91	U	10	U
21	Isophorone	1	U	1	U	1	U	0.991	U	1	U
22	2,4-Dimethylphenol	3	U	3	U	3	U	2.97	U	3	U
23	Benzoic Acid	50	U	50	U	10	U	19.8	U	20	U
24	Naphthalene	1	U	1	U	1	U	0.991	U	1	U
25	2-Methylnaphthalene	1	U	1	U	1	U	0.991	U	1	U
26	2,4,6-Trichlorophenol	5	U	5	U	5.1	U	4.96	U	5	U
27	2,4,5-Trichlorophenol	5	U	5	U	5.1	U	4.96	U	5	U
28	Acenaphthene	1	U	1	U	1	U	0.991	U	1	U
29	Dibenzofuran	1	U	1	U	1	U	0.991	U	1	U
30	Fluorene	1	U	1	U	1	U	0.991	U	1	U
31	Pentachlorophenol	5	U	5	U	5.1	U	4.96	U	5	U
32	bis(2-Ethylhexyl)phthalate	**150**		1	U	1	U	0.991	U	1	U
33											
34	**VOLATILES (µg/L)**										
35	**EPA Method SW8260**										
36	Acetone	5	U	5	U	5	U	50	U	50	U
37	Carbon Disulfide	1	U	1	U	1	U	2	U	2	U
38	2-Butanone	5	U	5	U	5	U	10	U	10	U
39	Benzene	1	U	1	U	1	U	0.4	U	0.3	U
40	Bromoform	1	U	1	U	1	U	1	U	1	U
41	Toluene	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
43	Styrene	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	1	U	1	U	1	U	2	U	2	U
45	o-Xylene	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
48	Isopropylbenzene	1	U	**3.4**		**1.1**		1	U	**1.13**	J
49	n-Propylbenzene	1	U	**2.6**		1	U	1	U	**1.19**	J
50	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	1	U	**1.2**		1	U	1	U	1	U
52	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	1	U	1	U	1	U	1	U	1	U
54	Naphthalene	5	U	5	U	5	U	1	U	1	U
55	Methyl tert-butyl ether	NA		NA		NA		1	U	1	U
56											
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	**Method OR-DEQ**										
59	**TPH-Diesel**	NA		NA		NA		NA		NA	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA		NA	
62											
63	**PRIORITY POLLUTANT**										
64	**METALS (mg/L)**										
65	Arsenic (7060)	**0.022**		**0.017**		**0.018**		**0.021**		**0.0185**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			D		D		D		D		D		D		D		D		D		D		D		D	
4			S177L		T176B		U235F		V208H		W391B		Y336D		Z225I		Z960I		AH76J		AU22D		BC27N		9912050-02A	
5			4/2/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/18/99		5/19/99		9/20/99		12/8/99		12/8/1999 (d)	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	NA	
67	60	Copper (6010)	**0.003**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.004**		0.002	U	0.002	U	0.002	U	NA	
68	61	Lead (7421)	0.001	U	0.001	U	0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	**0.004**		0.001	U	0.001	U	0.001	U	NA	
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	NA	
70	63	Zinc (6010)	0.004	U	0.004	U	0.004	U	0.004	U	**0.007**	J2	0.004	U	0.004	U	**0.020**	J	0.004	U	0.004	U	0.008	U	NA	
71	64																									
72	65	**MAJOR IONS AND CONVENTIONALS**																								
73	66	Calcium (mg/L) (6010)	**45.0**		**42.8**		**52.4**		**58.0**		NA		NA		NA		**49.1**		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**16.2**		**15.4**		**18.8**		**20.9**		NA		NA		NA		**16.9**		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**2.3**		**2.1**		**2.6**		**2.2**		NA		NA		NA		**2.7**		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**8.31**		**7.96**		**9.13**		**9.54**		NA		NA		NA		**9.67**		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**200**		**180**		**220**		**280**		NA		NA		NA		**210**		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**200**		**180**		**220**		**280**		NA		NA		NA		**210**		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**230**	J2	**240**		**300**		**240**		**240**		**230**		**250**		**260**		**280**		**190**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	**11**		**2.0**		**2.4**		**2.4**		**3.2**		**1.4**		**2.1**		**2.8**		**2.0**		**2.8**		**2.8**		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	0.010	U	0.010	U	0.010	U	0.010	U	NA		NA		NA		**0.049**		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	**0.022**	J	0.010	U	0.010	U	**0.011**		NA		NA		NA		**0.015**		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.03**		0.010	U	0.010	U	**0.014**		NA		NA		NA		**0.064**		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	2.5	U	2.5	U	**4.7**		2.5	U	NA		NA		NA		**5.8**		NA		NA		NA		NA	
86	79																									

BZTO104(e)022138

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2																											
3		D		D		D		D		D		D		D		D		D		D		D		D		D	
4		BH96B		BR55E		CB49D		CK77F		CT37F		DE68G		DM30M		DW37E		ED34G		EM85B		ER93P		EZ03C		FF76G	
5		2/17/00		5/22/00		8/28/00		11/7/00		2/12/01		6/4/01		8/14/01		11/28/01		2/28/02		6/26/02		08/27/02		11/12/02		2/12/03	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.002**		0.002	U	**0.003**		0.002	U	0.002	U
68	Lead (7421)	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	0.02	U	0.001	U
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	Zinc (6010)	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	**0.019**		0.006	U	0.006	U	0.006	U	0.006	U
71																											
72	**MAJOR IONS AND CONVENTIONALS**																										
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		**40.6**		**43.4**		**34.3**		**40.1**	J	**32.2**		NA		NA		NA		**75.2**	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		**13.8**		**14.9**		**12.0**		**14.0**	J	**11.3**		NA		NA		NA		**26.1**	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		**1.8**		**2.2**		**1.9**		**2.2**		**2.0**		NA		NA		NA		**3**	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		**7.40**		**7.64**		**6.73**		**7.77**		**7.57**		NA		NA		NA		**10.8**	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		**200**		NA		NA		NA		**140**		NA		NA		NA		**350**	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		1	U
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		**200**		NA		NA		NA		**140**		NA		NA		NA		**350**	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**310**		**290**		**230**		**220**		**240**		**240**		**180**		**220**		**200**		**260**		**320**		**320**		**360**	
81	Chloride (mg/L) (EPA 325.2)	**3.4**		**3.2**		**3.1**		**5.4**		**5.4**		**2.4**		**4.5**		**2.4**		**2.9**		**3.3**		**3**		**3.1**		**4.2**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		0.010	U	NA		NA		NA		**0.020**		NA		NA		NA		**0.19**	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		0.010	U	NA		NA		NA		0.010	U	NA		NA		NA		0.01	U
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		0.010	UJ	NA		NA		NA		**0.020**		NA		NA		NA		**0.19**	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		**6.1**		NA		NA		NA		**12**		NA		NA		NA		**4**	
86																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ
1											
2											
3		D		D		D		D		D	
4		FL58K		FU45C		FY82H		0402105-03		0408036-01	
5		5/8/03		8/28/03		10/23/03		2/20/04		8/05/04	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	**0.0078**		**0.019**	
67	Copper (6010)	0.002	U	0.002	U	0.002	U	0.01	U	0.01	U
68	Lead (7421)	**0.002**		0.001	U	0.001	U	**0.0021**		0.0001	U
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.005	U	0.005	U
70	Zinc (6010)	0.006	U	0.006	U	0.006	U	0.01	U	0.01	U
71											
72	**MAJOR IONS AND CONVENTIONALS**										
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**350**		**290**		**260**		**291**		**308**	
81	Chloride (mg/L) (EPA 325.2)	**3.5**		**1.8**		**2.4**		**3.69**		**3.52**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			D		D		D		D		D		D		D		D		D		D		D		D	
4			S177L		T176B		U235F		V208H		W391B		Y336D		Z225I		Z960I		AH76J		AU22D		BC27N		9912050-02A	
5			4/2/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/18/99		5/19/99		9/20/99		12/8/99		12/8/1999 (d)	
87	80	**FIELD PARAMETERS**																								
88	81	pH (avg)	6.85		6.68		6.96		6.83		6.44		6.53		6.26		6.74		6.24		6.11		6.53		NM	
89	82	Temperature (° C) (avg)	13.4		14.6		14.7		14.3		14.9		15.1		13.5		12.8		13.1		15.3		13.5		NM	
90	83	Conductivity (um/hos)	391		409		366		487		424		481		415		472		422		414		319		NM	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		2.65		1.70		1.70		1.75		2.08		1.69		2.47		NM	
92	85																									
93	86	**DIOXINS AND FURANS (ng/L)**																								
94	87	**Method 8290**																								
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																										
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		10	U
122																										

BZTO104(e)022141

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2																											
3		D		D		D		D		D		D		D		D		D		D		D		D		D	
4		BH96B		BR55E		CB49D		CK77F		CT37F		DE68G		DM30M		DW37E		ED34G		EM85B		ER93P		EZ03C		FF76G	
5		2/17/00		5/22/00		8/28/00		11/7/00		2/12/01		6/4/01		8/14/01		11/28/01		2/28/02		6/26/02		08/27/02		11/12/02		2/12/03	
87	**FIELD PARAMETERS**																										
88	pH (avg)	6.69		6.77		6.47		5.41		6.52		6.65		6.94		6.62		6.58		6.42		6.77		6.63		7.06	
89	Temperature (° C) (avg)	13.7		12.1		15.4		14.3		14.2		14.4		14.5		15.0		11.9		13.8		15.7		14.6		15.6	
90	Conductivity (um/hos)	531		446		357		300		331		344		331		334		260		452		442		532		707	
91	Dissolved oxygen (mg/L) (avg)	5.09		1.99		1.56		2.04		1.29		1.29		1.54		4.01		7.74		4.39		0.69		2.16		0	
92																											
93	**DIOXINS AND FURANS (ng/L)**																										
94	**Method 8290**																										
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																											
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ
1											
2											
3		D		D		D		D		D	
4		FL58K		FU45C		FY82H		0402105-03		0408036-01	
5		5/8/03		8/28/03		10/23/03		2/20/04		8/05/04	
87	**FIELD PARAMETERS**										
88	pH (avg)	6.82		6.93		6.71		6.61		6.12	
89	Temperature (° C) (avg)	14.5		14.9		15.0		13.1		14.9	
90	Conductivity (um/hos)	495		410		382		441		630	
91	Dissolved oxygen (mg/L) (avg)	2.71		1.84		1.66		2.36		2.21	
92											
93	**DIOXINS AND FURANS (ng/L)**										
94	**Method 8290**										
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA	
120											
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA	
122											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			D		D		D		D		D		D		D		D		D		D		D		D	
4			S177L		T176B		U235F		V208H		W391B		Y336D		Z225I		Z960I		AH76J		AU22D		BC27N		9912050-02A	
5			4/2/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/18/99		5/19/99		9/20/99		12/8/99		12/8/1999 (d)	
123		**PAHs (µg/L)**																								
124		**EPA Method SW8270 SIM**																								
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2																											
3		D		D		D		D		D		D		D		D		D		D		D		D		D	
4		BH96B		BR55E		CB49D		CK77F		CT37F		DE68G		DM30M		DW37E		ED34G		EM85B		ER93P		EZ03C		FF76G	
5		2/17/00		5/22/00		8/28/00		11/7/00		2/12/01		6/4/01		8/14/01		11/28/01		2/28/02		6/26/02		08/27/02		11/12/02		2/12/03	
123	**PAHs (µg/L)**																										
124	**EPA Method SW8270 SIM**																										
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ
1											
2											
3		D		D		D		D		D	
4		FL58K		FU45C		FY82H		0402105-03		0408036-01	
5		5/8/03		8/28/03		10/23/03		2/20/04		8/05/04	
123	**PAHs (µg/L)**										
124	**EPA Method SW8270 SIM**										
125	Naphthalene	NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		1	U
128	Acenaphthene	NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		1	U
131	Dibenzofuran	NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			F	
4			Y314H	
5			8/18/98	
7	1	**CHLORINATED PHENOLS (µg/L)**		
8	2	**EPA Method SW8040**		
9	3	Pentachlorophenol	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U
15	9	2,3,4,5-Tetrachlorophenol	0.25	U
16	10			
17	11	**SEMIVOLATILES (µg/L)**		
18	12	**EPA Method SW8270**		
19	13	Phenol	2.0	U
20	14	4-Methylphenol	1.0	U
21	15	Isophorone	1.0	U
22	16	2,4-Dimethylphenol	3.0	U
23	17	Benzoic Acid	10	U
24	18	Naphthalene	1.0	U
25	19	2-Methylnaphthalene	1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U
28	22	Acenaphthene	1.0	U
29	23	Dibenzofuran	1.0	U
30	24	Fluorene	1.0	U
31	25	Pentachlorophenol	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	U
33	27			
34	28	**VOLATILES (µg/L)**		
35	29	**EPA Method SW8260**		
36	30	Acetone	5.0	U
37	31	Carbon Disulfide	1.0	U
38	32	2-Butanone	5.0	U
39	33	Benzene	1.0	U
40	34	Bromoform	1.0	U
41	35	Toluene	1.0	U
42	36	Ethylbenzene	1.0	U
43	37	Styrene	1.0	U
44	38	m,p-Xylene	1.0	U
45	39	o-Xylene	1.0	U
46	40	1,3,5-Trimethylbenzene	1.0	U
47	41	1,2,4-Trimethylbenzene	1.0	U
48	42	Isopropylbenzene	1.0	U
49	43	n-Propylbenzene	1.0	U
50	44	tert-Butylbenzene	1.0	U
51	45	sec-Butylbenzene	1.0	UJ
52	46	4-Isopropyltoluene	1.0	U
53	47	n-Butylbenzene	1.0	U
54	48	Naphthalene	5.0	U
55	48.5	Methyl tert-butyl ether	NA	
56	49			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	51	**Method OR-DEQ**		
59	52	**TPH-Diesel**	0.25	U
60	53	**TPH-D Motor Oil**	NA	
61	54	**TPH-Gasoline**	NA	
62	55			
63	56	**PRIORITY POLLUTANT**		
64	57	**METALS (mg/L)**		
65	58	Arsenic (7060)	**0.034**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			F	
4			Y314H	
5			8/18/98	
66	59	Chromium (6010)	**0.042**	
67	60	Copper (6010)	**0.016**	
68	61	Lead (7421)	**0.006**	
69	62	Nickel (6010)	**0.03**	
70	63	Zinc (6010)	**0.047**	
71	64			
72	65	**MAJOR IONS AND CONVENTIONALS**		
73	66	Calcium (mg/L) (6010)	NA	
74	67	Magnesium (mg/L) (6010)	NA	
75	68	Potassium (mg/L) (6010)	NA	
76	69	Sodium (mg/L) (6010)	NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**200**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.1**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA	
86	79			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			F	
4			Y314H	
5			8/18/98	
87	80	**FIELD PARAMETERS**		
88	81	pH (avg)	6.37	
89	82	Temperature (° C) (avg)	14.2	
90	83	Conductivity (um/hos)	448	
91	84	Dissolved oxygen (mg/L) (avg)	2.30	
92	85			
93	86	**DIOXINS AND FURANS (ng/L)**		
94	87	**Method 8290**		
95	88	2,3,7,8-TCDF	NA	
96	89	Total TCDF	NA	
97	90	2,3,7,8-TCDD	NA	
98	91	Total TCDD	NA	
99	92	1,2,3,7,8-PeCDF	NA	
100	93	2,3,4,7,8-PeCDF	NA	
101	94	Total PeCDF	NA	
102	95	1,2,3,7,8-PeCDD	NA	
103	96	Total PeCDD	NA	
104	97	1,2,3,4,7,8-HxCDF	NA	
105	98	1,2,3,6,7,8-HxCDF	NA	
106	99	2,3,4,6,7,8-HxCDF	NA	
107	100	1,2,3,7,8,9-HxCDF	NA	
108	101	Total HxCDF	NA	
109	102	1,2,3,4,7,8-HxCDD	NA	
110	103	1,2,3,6,7,8-HxCDD	NA	
111	104	1,2,3,7,8,9-HxCDD	NA	
112	105	Total HxCDD	NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	
115	108	Total HpCDF	NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	
117	110	Total HpCDD	NA	
118	111	OCDF	NA	
119	112	OCDD	NA	
120				
121		**ETHANOL (mg/L)**	NA	
122				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			F	
4			Y314H	
5			8/18/98	
123		**PAHs (µg/L)**		
124		**EPA Method SW8270 SIM**		
125		Naphthalene	NA	
126		2-Methylnaphthalene	NA	
127		Acenaphthylene	NA	
128		Acenaphthene	NA	
129		Fluorene	NA	
130		Anthracene	NA	
131		Dibenzofuran	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
3			H		H		H		H		H		H		H		H		H		H		H		H		H	
4			S177B		T176D		U235V		V208C		W371F		Y314A		Z225V		Z960X		AH27D		AU22A		BB82E		BH75K		BR55N	
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/17/98		11/13/98		2/16/99		5/17/99		9/20/99		12/6/99		2/15/00		5/23/00	
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	0.25	U	**0.16**	J1	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.44**		0.25	U	0.25	U	**0.19**	J1	0.25	U	0.25	UJ
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	51	**Method OR-DEQ**																										
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																											
63	56	**PRIORITY POLLUTANT**																										
64	57	**METALS (mg/L)**																										
65	58	Arsenic (7060)	**0.013**		**0.019**		0.05	U	0.05	U	**0.013**		**0.013**		**0.015**		**0.023**		**0.023**		**0.020**		**0.012**		**0.020**		**0.019**	

BZTO104(e)022151

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH
1							
2							
3		H		H		H	
4		CT37N		ED16K		FF88N	
5		2/12/01		2/25/02		2/13/03	
6							
7	**CHLORINATED PHENOLS (µg/L)**						
8	**EPA Method SW8040**						
9	Pentachlorophenol	0.25	U	0.26	U	0.25	U
10	2,4,6-Trichlorophenol	NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA	
16							
17	**SEMIVOLATILES (µg/L)**						
18	**EPA Method SW8270**						
19	Phenol	NA		NA		NA	
20	4-Methylphenol	NA		NA		NA	
21	Isophorone	NA		NA		NA	
22	2,4-Dimethylphenol	NA		NA		NA	
23	Benzoic Acid	NA		NA		NA	
24	Naphthalene	NA		NA		NA	
25	2-Methylnaphthalene	NA		NA		NA	
26	2,4,6-Trichlorophenol	NA		NA		NA	
27	2,4,5-Trichlorophenol	NA		NA		NA	
28	Acenaphthene	NA		NA		NA	
29	Dibenzofuran	NA		NA		NA	
30	Fluorene	NA		NA		NA	
31	Pentachlorophenol	NA		NA		NA	
32	bis(2-Ethylhexyl)phthalate	NA		NA		NA	
33							
34	**VOLATILES (µg/L)**						
35	**EPA Method SW8260**						
36	Acetone	NA		NA		NA	
37	Carbon Disulfide	NA		NA		NA	
38	2-Butanone	NA		NA		NA	
39	Benzene	NA		NA		NA	
40	Bromoform	NA		NA		NA	
41	Toluene	NA		NA		NA	
42	Ethylbenzene	NA		NA		NA	
43	Styrene	NA		NA		NA	
44	m,p-Xylene	NA		NA		NA	
45	o-Xylene	NA		NA		NA	
46	1,3,5-Trimethylbenzene	NA		NA		NA	
47	1,2,4-Trimethylbenzene	NA		NA		NA	
48	Isopropylbenzene	NA		NA		NA	
49	n-Propylbenzene	NA		NA		NA	
50	tert-Butylbenzene	NA		NA		NA	
51	sec-Butylbenzene	NA		NA		NA	
52	4-Isopropyltoluene	NA		NA		NA	
53	n-Butylbenzene	NA		NA		NA	
54	Naphthalene	NA		NA		NA	
55	Methyl tert-butyl ether	NA		NA		NA	
56							
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**						
58	**Method OR-DEQ**						
59	**TPH-Diesel**	NA		NA		NA	
60	**TPH-D Motor Oil**	NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA	
62							
63	**PRIORITY POLLUTANT**						
64	**METALS (mg/L)**						
65	Arsenic (7060)	**0.015**		**0.021**		**0.017**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			H		H		H		H		H		H		H		H		H		H		H		H		H	
4			S177B		T176D		U235V		V208C		W371F		Y314A		Z225V		Z960X		AH27D		AU22A		BB82E		BH75K		BR55N	
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/17/98		11/13/98		2/16/99		5/17/99		9/20/99		12/6/99		2/15/00		5/23/00	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	60	Copper (6010)	**0.003**		**0.006**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.010**		**0.011**		0.002	U	0.002	U	0.002	U	**0.003**	
68	61	Lead (7421)	0.001	U	**0.001**		0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	0.004	U	**0.014**	J2	**0.010**		**0.005**		**0.004**	J2	**0.006**		0.004	U	**0.012**	J	0.019	U	**0.006**		0.006	U	0.006	U	0.006	U
71	64																											
72	65	**MAJOR IONS AND CONVENTIONALS**																										
73	66	Calcium (mg/L) (6010)	**22.4**		**27.7**		**25.4**		**24.9**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**7.80**		**9.86**		**8.80**		**8.27**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**2.3**		**2.2**		**2.4**		**2.3**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**5.41**		**6.27**		**5.92**		**5.70**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**100**		**110**		**110**		**120**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**100**		**110**		**110**		**120**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**160**	J2	**140**		**150**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
81	74	Chloride (mg/L) (EPA 325.2)	**1.5**		**2.0**		**2.7**		**1.6**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.016**		0.010	U	**0.011**		0.010	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	0.010	U	0.010	U	0.010	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.016**		0.010	U	**0.011**		0.010	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	**4.8**	J	2.5	U	**3.6**		**6.3**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																											

BZTO104(e)022153

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH
1							
2							
3		H		H		H	
4		CT37N		ED16K		FF88N	
5		2/12/01		2/25/02		2/13/03	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U
67	Copper (6010)	**0.004**		**0.007**		**0.004**	
68	Lead (7421)	0.001	U	**0.001**		0.001	U
69	Nickel (6010)	0.01	U	0.01	U	0.01	U
70	Zinc (6010)	0.006	U	**0.008**		**0.01**	
71							
72	**MAJOR IONS AND CONVENTIONALS**						
73	Calcium (mg/L) (6010)	NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA	
81	Chloride (mg/L) (EPA 325.2)	NA		NA		NA	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA	
86							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			H		H		H		H		H		H		H		H		H		H		H		H		H	
4			S177B		T176D		U235V		V208C		W371F		Y314A		Z225V		Z960X		AH27D		AU22A		BB82E		BH75K		BR55N	
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/17/98		11/13/98		2/16/99		5/17/99		9/20/99		12/6/99		2/15/00		5/23/00	
87	80	**FIELD PARAMETERS**																										
88	81	pH (avg)	6.77		6.85		7.02		6.85		6.37		6.56		6.41		7.07		7.07		7.07		6.26		6.64		6.58	
89	82	Temperature (° C) (avg)	13.7		15.1		15.1		14.4		15.0		14.8		14.4		14.3		14.3		14.3		14.5		13.5		14.2	
90	83	Conductivity (um/hos)	212		283		225		243		186		251		100		193		193		193		258		223		191	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		1.40		1.69		1.60		1.60		1.60		2.34		2.18		2.00	
92	85																											
93	86	**DIOXINS AND FURANS (ng/L)**																										
94	87	**Method 8290**																										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH
1							
2							
3		H		H		H	
4		CT37N		ED16K		FF88N	
5		2/12/01		2/25/02		2/13/03	
87	**FIELD PARAMETERS**						
88	pH (avg)	6.54		6.29		7.01	
89	Temperature (° C) (avg)	13.3		13.4		14.9	
90	Conductivity (um/hos)	230		292		369	
91	Dissolved oxygen (mg/L) (avg)	3.06		4.89		0	
92							
93	**DIOXINS AND FURANS (ng/L)**						
94	**Method 8290**						
95	2,3,7,8-TCDF	NA		NA		NA	
96	Total TCDF	NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA	
98	Total TCDD	NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA	
101	Total PeCDF	NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA	
103	Total PeCDD	NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA	
108	Total HxCDF	NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA	
112	Total HxCDD	NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA	
115	Total HpCDF	NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA	
117	Total HpCDD	NA		NA		NA	
118	OCDF	NA		NA		NA	
119	OCDD	NA		NA		NA	
120							
121	**ETHANOL (mg/L)**	NA		NA		NA	
122							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			H		H		H		H		H		H		H		H		H		H		H		H		H	
4			S177B		T176D		U235V		V208C		W371F		Y314A		Z225V		Z960X		AH27D		AU22A		BB82E		BH75K		BR55N	
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/17/98		11/13/98		2/16/99		5/17/99		9/20/99		12/6/99		2/15/00		5/23/00	
123		**PAHs (µg/L)**																										
124		**EPA Method SW8270 SIM**																										
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH
1							
2							
3		H		H		H	
4		CT37N		ED16K		FF88N	
5		2/12/01		2/25/02		2/13/03	
123	**PAHs (µg/L)**						
124	**EPA Method SW8270 SIM**						
125	Naphthalene	NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA	
127	Acenaphthylene	NA		NA		NA	
128	Acenaphthene	NA		NA		NA	
129	Fluorene	NA		NA		NA	
130	Anthracene	NA		NA		NA	
131	Dibenzofuran	NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1																							
2					Dup of J1								Dup of J1										
3			J1		J1D		J1		J1		J1		J4		J1		J1		J1		J1		J1
4			S177H		S177I		T176P		U235J		V224O		V224K		W371N		Y314I		Z225O		Z960C		AH49C
5			4/2/97		4/2/97		7/16/97		10/22/97		1/29/98		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99
7	1	**CHLORINATED PHENOLS (µg/L)**																					
8	2	**EPA Method SW8040**																					
9	3	Pentachlorophenol	**32**		**33**		**24**		**7.8**		**7.3**		**8.4**		**7.5**		**5.8**		**2.0**		**8.3**		**4.6**
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
12	6	2,4,5-Trichlorophenol	0.4	U	0.25	U	0.27	U	0.67	U	**0.29**		**0.22**	J1	**0.25**		0.25	U	0.25	U	0.25	U	0.25
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**3.4**		**3.4**		**3.0**		**1.8**		**0.98**		**1.1**		**0.51**		**0.33**		0.25	U	**0.43**		0.17
15	9	2,3,4,5-Tetrachlorophenol	**0.94**		**0.70**		**0.5**		**0.28**		**0.23**	J1	**0.20**	J1	**0.16**	J1	**0.23**	J1	0.25	U	0.25	U	0.25
16	10																						
17	11	**SEMIVOLATILES (µg/L)**																					
18	12	**EPA Method SW8270**																					
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10
24	18	Naphthalene	1.0	U	1.0	U	**1.1**		**1.9**		**2.5**		**2.4**		**2.8**	J2	**1.4**		1.0	U	**3.6**		**2.4**
25	19	2-Methylnaphthalene	1.0	U	1.0	U	**1.1**		**1.8**		**2.6**		**2.4**		**2.9**	J2	**1.3**		1.0	U	**3.5**		**2.2**
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
31	25	Pentachlorophenol	**44**		**52**		**20**		**11**		**11**		**8.8**		**10**		**6.5**		5.0	U	**12**		**4.4**
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
33	27																						
34	28	**VOLATILES (µg/L)**																					
35	29	**EPA Method SW8260**																					
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	9.9	U	5.0
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
42	36	Ethylbenzene	**6.5**		**5.9**		**12**		**7.5**		**4.0**		**3.3**		**8.4**		**5.5**		**2.5**		**6.2**		**1.9**
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
44	38	m,p-Xylene	**4.4**		**4.0**		**6.6**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
46	40	1,3,5-Trimethylbenzene	**4.9**		**4.1**		**6.1**		**3.8**		**4.0**	J2	**2.4**	J2	**5.2**		**2.7**		**2.1**		**4.4**		1.0
47	41	1,2,4-Trimethylbenzene	**41**		**36**		**47**		**37**	J2	**26**	J2	**19**	J2	**46**		**29**		**16**		**44**		**8.8**
48	42	Isopropylbenzene	**5.0**		**4.2**		**7.9**		**6.9**	J2	**4.2**	J2	**2.7**	J2	**7.7**		**6.6**		**4.8**		**7.6**		**2.1**
49	43	n-Propylbenzene	**8.7**		**7.2**		**14**		**14**		**8.0**	J2	**5.0**	J2	**14**		**11**		**7.5**		**12**		**3.4**
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
51	45	sec-Butylbenzene	**1.6**		**1.4**		**2.2**		**1.8**	J2	**1.3**		1.0	U	**2.0**		**1.6**	J2	1.0	U	**2.6**		1.0
52	46	4-Isopropyltoluene	1.0	U	1.0	U	**1.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
53	47	n-Butylbenzene	**1.3**		**1.1**		**1.9**		**1.7**	J2	**1.1**		1.0	U	**2.0**		**1.3**		1.0	U	**1.2**		1.0
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**5.4**		5.0
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																						
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																					
58	51	**Method OR-DEQ**																					
59	52	**TPH-Diesel**	**0.30**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.52**		0.25
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																						
63	56	**PRIORITY POLLUTANT**																					
64	57	**METALS (mg/L)**																					
65	58	Arsenic (7060)	**0.007**		**0.006**		**0.006**		0.05	U	0.05	U	0.05	U	**0.008**		**0.007**		**0.008**		**0.007**		**0.006**

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW
3			J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1
4			AU22H		BC27K		9912050-03A		BH96R		BR64D		CB49G		CL03H		CT55F		DE68I		DM52B		DW48C		ED23C		EM85D
5			9/20/99		12/8/99		12/8/1999 (d)		2/16/00		5/24/00		8/29/00		11/10/00		2/14/01		6/5/01		8/14/01		11/29/01		2/26/02		6/26/02
7	**CHLORINATED PHENOLS (µg/L)**																										
8	**EPA Method SW8040**																										
9	Pentachlorophenol		**1.7**		**0.94**		NA		**0.81**		**1.7**		0.25	U	0.25	U	**0.50**		**0.36**		0.25	U	**0.25**		NA		**4.4**
10	2,4,6-Trichlorophenol	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA
11	2,3,6-Trichlorophenol	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA
12	2,4,5-Trichlorophenol	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA
13	2,3,4-Trichlorophenol	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	J1	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA
15	2,3,4,5-Tetrachlorophenol	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA
16																											
17	**SEMIVOLATILES (µg/L)**																										
18	**EPA Method SW8270**																										
19	Phenol	U	2.0	U	2.0	U	NA		2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
20	4-Methylphenol	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
21	Isophorone	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
22	2,4-Dimethylphenol	U	3.0	U	3.0	U	NA		3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0
23	Benzoic Acid	U	10	U	10	U	NA		10	U	10	U	10	U	10	U	10	U	10	U	10	U	30	U	50	U	50
24	Naphthalene		**1.1**		**0.7**	J1	NA		**1.4**		**3.6**		1.0	U	1.0	U	**2.9**		**1.3**		1.0	U	1.0	U	1.0	U	**1.4**
25	2-Methylnaphthalene		**1.2**		**0.5**	J1	NA		**1.2**		**3.3**		1.0	U	1.0	U	**3.0**		**1.5**		1.0	U	1.0	U	1.0	U	1.0
26	2,4,6-Trichlorophenol	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
27	2,4,5-Trichlorophenol	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
28	Acenaphthene	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
29	Dibenzofuran	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
30	Fluorene	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
31	Pentachlorophenol	J1	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**280**		5.0
32	bis(2-Ethylhexyl)phthalate	U	1.0	U	**0.6**	J1	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**25**		1.0	U	1.0	U	4.0	U	4.0
33																											
34	**VOLATILES (µg/L)**																										
35	**EPA Method SW8260**																										
36	Acetone	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	12	U	5.0	U	5.0	U	5.0	U	**10**
37	Carbon Disulfide	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
38	2-Butanone	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
39	Benzene	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
40	Bromoform	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
41	Toluene	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
42	Ethylbenzene		**1.5**		1.0	U	NA		1.0	U	**3.4**		1.0	U	1.0	U	**1.2**		**1.2**		1.0	U	1.0	U	1.0	U	**1.1**
43	Styrene	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
44	m,p-Xylene	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.5**		1.0
45	o-Xylene	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**3.0**		1.0
46	1,3,5-Trimethylbenzene	U	**1.4**		1.0	U	NA		1.0	U	**3.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**6.4**		1.0
47	1,2,4-Trimethylbenzene		**6.4**		**2.4**		NA		**2.4**		**7.4**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**50**		1.0
48	Isopropylbenzene		**2.4**		**1.2**		NA		**1.3**		**8.2**		**1.5**		**2.5**		**3.3**		**4.7**		1.0	U	**1.3**		**3.5**		**8.4**
49	n-Propylbenzene		**4.4**		**1.9**		NA		**2.0**		**13**		**3.3**		**3.8**		**5.7**		**8.3**		**1.1**		**2.2**		**4.0**		**12**
50	tert-Butylbenzene	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
51	sec-Butylbenzene	U	1.0	U	1.0	U	NA		1.0	U	**1.6**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.0**
52	4-Isopropyltoluene	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.2**		1.0
53	n-Butylbenzene	U	1.0	U	1.0	U	NA		1.0	U	**1.4**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
54	Naphthalene	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
55	Methyl tert-butyl ether		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56																											
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	**Method OR-DEQ**																										
59	**TPH-Diesel**	U	0.25	U	0.25	U	NA		0.25	U	0.25	(a)	0.25	U	0.25	U	**0.30**	(d)	NA		NA		NA		**2.1**		NA
60	**TPH-D Motor Oil**		NA		NA		NA		NA		NA		NA		0.50	U	NA		NA		NA		NA		NA		NA
61	**TPH-Gasoline**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62																											
63	**PRIORITY POLLUTANT**																										
64	**METALS (mg/L)**																										
65	Arsenic (7060)		**0.015**		**0.015**		NA		**0.013**		**0.011**		**0.010**		**0.012**		**0.010**		**0.011**		**0.014**		**0.013**		**0.012**		**0.014**

BZTO104(e)022160

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1																		
2																		
3			J1		J1		J1		J1		J1		J1		J1		J1	
4			ES04F		EZ03K		FF76J		FL58I		FU31A		FY64H		0402105-01		0408019-04	
5			08/28/02		11/12/02		2/12/03		5/8/03		8/27/03		10/21/03		2/20/04		8/03/04	
6																		
7	**CHLORINATED PHENOLS (µg/L)**																	
8	**EPA Method SW8040**																	
9	Pentachlorophenol		**3.1**		**0.57**		**0.35**		**0.73**		**1.3**		**0.65**		**1.13**		0.5	U
10	2,4,6-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
16																		
17	**SEMIVOLATILES (µg/L)**																	
18	**EPA Method SW8270**																	
19	Phenol	U	2.3	U	2	U	2.1	U	2	U	2	U	2.1	U	1.93	UJ	2.01	U
20	4-Methylphenol	U	1.2	U	1	U	1	U	1	U	1	U	1.1	U	9.63	U	10.1	U
21	Isophorone	U	1.2	U	1	U	1	U	1	U	1	U	1.1	U	0.963	U	1.01	U
22	2,4-Dimethylphenol	U	3.5	U	3	U	3.1	U	3	U	3	U	3.2	U	2.89	U	3.02	U
23	Benzoic Acid	U	58	U	50	U	52	U	50	U	50	U	11	U	19.3	U	20.1	U
24	Naphthalene		1.2	U	**1**		1	U	1	U	**1.5**		**2.1**		**1.41**		1.01	U
25	2-Methylnaphthalene	U	1.2	U	1	U	1	U	1	U	1	U	**1.4**		**1**		1.01	U
26	2,4,6-Trichlorophenol	U	5.8	U	5	U	5.2	U	5	U	5	U	5.3	U	4.82	U	5.03	U
27	2,4,5-Trichlorophenol	U	5.8	U	5	U	5.2	U	5	U	5	U	5.3	U	4.82	U	5.03	U
28	Acenaphthene	U	1.2	U	1	U	1	U	1	U	1	U	1.1	U	0.963	U	1.01	U
29	Dibenzofuran	U	1.2	U	1	U	1	U	1	U	1	U	1.1	U	0.963	U	1.01	U
30	Fluorene	U	1.2	U	1	U	1	U	1	U	1	U	1.1	U	0.963	U	1.01	U
31	Pentachlorophenol	U	5.8	U	5	U	5.2	U	5	U	5	U	5.3	U	4.82	U	5.03	U
32	bis(2-Ethylhexyl)phthalate	U	4.7	U	4	U	1	U	1	U	1	U	1.1	U	0.963	U	1.01	U
33																		
34	**VOLATILES (µg/L)**																	
35	**EPA Method SW8260**																	
36	Acetone	M	5	U	5	U	5	U	5	U	5	U	5	U	50	U	50	U
37	Carbon Disulfide	U	1	U	1	U	1	U	1	U	1	U	1	U	2	U	2	U
38	2-Butanone	U	5	U	5	U	5	U	5	U	5	U	5	U	10	U	10	U
39	Benzene	U	1	U	1	U	1	U	1	U	1	U	1	U	0.4	U	0.3	U
40	Bromoform	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene		1	U	1	U	1	U	1	U	1	U	1	U	**2.82**		1	U
43	Styrene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	U	1	U	1	U	1	U	1	U	1	U	1	U	2	U	2	U
45	o-Xylene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	U	1	U	1	U	**4.5**		1	U	1	U	1	U	**6.76**		1	U
48	Isopropylbenzene		**5.2**		**3.5**		**5.4**		**1.1**		**14**		**7.1**		**17**		**5.58**	J
49	n-Propylbenzene		**7.8**		**4.9**		**7.9**		**1.5**		**21**		**11**		**21.7**		**14**	J
50	tert-Butylbenzene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene		1	U	1	U	**1.6**		1	U	**2**		1	U	**3.14**		1	U
52	4-Isopropyltoluene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	U	1	U	1	U	1	U	1	U	**1.7**		1	U	**1.74**		**1.06**	J
54	Naphthalene	U	5	U	5	U	5	U	5	U	**5**		5	U	**4.77**		**1.47**	J
55	Methyl tert-butyl ether		NA		NA		NA		NA		NA		NA		1	U	1	U
56																		
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																	
58	**Method OR-DEQ**																	
59	**TPH-Diesel**		NA		NA		**0.4**		NA		NA		NA		NA		NA	
60	**TPH-D Motor Oil**		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**		NA		NA		NA		NA		NA		NA		NA		NA	
62																		
63	**PRIORITY POLLUTANT**																	
64	**METALS (mg/L)**																	
65	Arsenic (7060)		**0.01**		0.05	U	**0.014**		**0.014**		**0.009**		**0.006**		**0.009**		**0.0114**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1																							
2					Dup of J1								Dup of J1										
3			J1		J1D		J1		J1		J1		J4		J1		J1		J1		J1		J1
4			S177H		S177I		T176P		U235J		V224O		V224K		W371N		Y314I		Z225O		Z960C		AH49C
5			4/2/97		4/2/97		7/16/97		10/22/97		1/29/98		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
67	60	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002
68	61	Lead (7421)	0.001	U	0.001	U	0.001	U	0.02	U	0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
70	63	Zinc (6010)	0.004	U	0.004	U	0.004	U	0.004	U	**0.005**		**0.006**		0.004	U	**0.004**		0.004	U	**0.008**	J	**0.007**
71	64																						
72	65	**MAJOR IONS AND CONVENTIONALS**																					
73	66	Calcium (mg/L) (6010)	**26.4**		**26.7**		**26.1**		**27.5**		**30.8**		**30.5**		NA		NA		NA		**20.2**		NA
74	67	Magnesium (mg/L) (6010)	**10.1**		**10.2**		**9.96**		**10.1**		**10.9**		**10.8**		NA		NA		NA		**6.67**		NA
75	68	Potassium (mg/L) (6010)	**3.1**		**2.8**		**3.2**		**3.4**		**3.5**		**3.4**		NA		NA		NA		**3.1**		NA
76	69	Sodium (mg/L) (6010)	**7.40**		**7.47**		**8.13**		**8.29**		**8.49**		**8.46**		NA		NA		NA		**8.05**		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**120**		**120**		**100**	**J2**	**130**		**140**		**140**		NA		NA		NA		**74**		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**120**		**120**		**100**	J2	**130**		**140**		**140**		NA		NA		NA		**74**		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		NT		**160**	J2	**180**		**170**		**170**		180		170		140		**140**		**150**
81	74	Chloride (mg/L) (EPA 325.2)	**4.3**		**5.4**		**3.4**		**2.5**		**2.3**		**2.2**		3.7		1.0	U	1.8		**3.7**		**3.7**
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.057**		**0.011**		0.010	U	**0.025**		**1.8**	J2	**1.4**	J2	NA		NA		NA		**1.8**		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	**0.01**	J	**0.016**	J2	0.010	U	0.010	UJ	0.010	UJ	NA		NA		NA		0.010	U	NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.057**		**0.021**		**0.015**	J2	**0.025**		**1.8**	J2	**1.4**	J2	NA		NA		NA		**1.8**		NA
85	78	Sulfate (mg/L) (EPA 375.2)	**7.0**	J	**26**	J	**10**		**8.6**		**9.0**		**12**		NA		NA		NA		**15**		NA
86	79																						

BZTO104(e)022162

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW
1																											
2																											
3			J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1
4			AU22H		BC27K		9912050-03A		BH96R		BR64D		CB49G		CL03H		CT55F		DE68I		DM52B		DW48C		ED23C		EM85D
5			9/20/99		12/8/99		12/8/1999 (d)		2/16/00		5/24/00		8/29/00		11/10/00		2/14/01		6/5/01		8/14/01		11/29/01		2/26/02		6/26/02
66	Chromium (6010)	U	0.005	U	0.005	U	NA		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
67	Copper (6010)	U	0.002	U	0.002	U	NA		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.003**		0.002
68	Lead (7421)	U	0.001	U	**0.001**		NA		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	0.001
69	Nickel (6010)	U	0.01	U	0.01	U	NA		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.01**		0.01
70	Zinc (6010)		0.004	U	0.006	U	NA		0.006	U	**0.006**		0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	**0.007**		0.006
71																											
72	**MAJOR IONS AND CONVENTIONALS**																										
73	Calcium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		NA		**20.6**		**20.5**		**22.7**		**21.1**		**29.4**		NA
74	Magnesium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		NA		**7.21**		**7.38**		**8.65**		**7.62**		**10.1**		NA
75	Potassium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		NA		**2.3**		**2.4**		**2.6**		**2.6**		**3.4**		NA
76	Sodium (mg/L) (6010)		NA		NA		NA		NA		NA		NA		NA		**6.48**		**6.15**		**6.58**		**6.56**		**8.36**		NA
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		NA		**100**		NA		NA		NA		**130**		NA
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		NA		1.0	U	NA		NA		NA		1.0	U	NA
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		NA		**100**		NA		NA		NA		**130**		NA
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**170**		**160**		NA		**200**		**160**		**160**		**160**		**150**		**160**		**150**		**140**		**210**		**160**
81	Chloride (mg/L) (EPA 325.2)		**2.6**		**3.1**		NA		**4.3**		**2.5**		**2.0**		**2.3**		**3.0**		**2.6**		**6.2**		**2.6**		**8.8**		**3.6**
82	N-Nitrate (mg-N/L) (Calculated)		NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**2.4**		NA
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**0.018**		NA
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**2.4**	J	NA
85	Sulfate (mg/L) (EPA 375.2)		NA		NA		NA		NA		NA		NA		NA		**10**		NA		NA		NA		**14**		NA
86																											

BZTO104(e)022163

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1																		
2																		
3			J1		J1		J1		J1		J1		J1		J1		J1	
4			ES04F		EZ03K		FF76J		FL58I		FU31A		FY64H		0402105-01		0408019-04	
5			08/28/02		11/12/02		2/12/03		5/8/03		8/27/03		10/21/03		2/20/04		8/03/04	
66	Chromium (6010)	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.0232**	J	**0.0188**	
67	Copper (6010)	U	**0.003**		0.002	U	**0.004**		0.002	U	0.002	U	**0.002**		0.01	U	0.01	U
68	Lead (7421)	U	0.001	U	0.02	U	**0.002**		0.001	U	0.001	U	0.001	U	**0.0004**		**0.000317**	
69	Nickel (6010)	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.0151**		0.005	U
70	Zinc (6010)	U	**0.007**		**0.006**		**0.007**		0.006	U	0.006	U	0.006	U	0.01	U	**0.0121**	
71																		
72	**MAJOR IONS AND CONVENTIONALS**																	
73	Calcium (mg/L) (6010)		NA		NA		**43.2**		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)		NA		NA		**16.8**		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)		NA		NA		**3.1**		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)		NA		NA		**8.7**		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		NA		**130**		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		1	U	NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		**130**		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**160**		**180**		**260**		**150**		**220**		**190**		**240**	J	**276**	
81	Chloride (mg/L) (EPA 325.2)		**3.2**		**3.5**		**2.9**		**3.8**		**2.3**		**2.2**		**2.76**		**4.13**	
82	N-Nitrate (mg-N/L) (Calculated)		NA		NA		**0.039**		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		NA		**0.015**		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		NA		**0.054**		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)		NA		NA		**110**		NA		NA		NA		NA		NA	
86																		

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1																							
2					Dup of J1								Dup of J1										
3			J1		J1D		J1		J1		J1		J4		J1		J1		J1		J1		J1
4			S177H		S177I		T176P		U235J		V224O		V224K		W371N		Y314I		Z225O		Z960C		AH49C
5			4/2/97		4/2/97		7/16/97		10/22/97		1/29/98		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99
87	80	**FIELD PARAMETERS**																					
88	81	pH (avg)	6.75		6.75		6.62		6.75		6.66		6.65		6.56		6.35		6.17		6.43		5.77
89	82	Temperature (° C) (avg)	12.8		12.8		14.7		15.3		14.5		14.5		12.6		15.5		15.0		13.1		12.9
90	83	Conductivity (um/hos)	319		319		256		239		314		315		289		330		138		207		241
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		NA		2.85		2.20		1.82		1.84		2.33
92	85																						
93	86	**DIOXINS AND FURANS (ng/L)**																					
94	87	**Method 8290**																					
95	88	2,3,7,8-TCDF	0.0057	U	0.0017	U	0.0023	U	0.0038	U	NA		NA		0.0017	U	0.0019	U	0.0019	U	0.0035	U	0.0011
96	89	Total TCDF	**0.0110**		0.0012-0.0034	U	0.0010-0.0058	U	0.0018-0.0064	U	NA		NA		0.0017	U	0.0019	U	0.0019	U	**0.0024**		0.0011
97	90	2,3,7,8-TCDD	0.0054	U	0.0028	U	0.0029	U	0.0053	U	NA		NA		0.0022	U	0.0050	U	0.0034	U	0.0057	U	0.0044
98	91	Total TCDD	0.0037-0.0087	U	0.0015-0.0049	U	0.0015-0.0050	U	0.0024-0.0087	U	NA		NA		0.0022	U	0.0050	U	**0.0016**		0.0057	U	0.0044
99	92	1,2,3,7,8-PeCDF	0.0029	U	0.0032	U	0.0051	U	0.0031	U	NA		NA		0.0019	U	0.0035	U	0.0020	U	0.0049	U	0.0021
100	93	2,3,4,7,8-PeCDF	0.0035	U	0.0031	U	0.0024	U	0.0046	U	NA		NA		0.0023	U	0.0037	U	0.0027	U	0.0042	U	0.0020
101	94	Total PeCDF	0.0029-0.0064	U	0.0013-0.0047	U	0.0036-0.0067	U	**0.0022**		NA		NA		0.0021	U	0.0036	U	0.0024	U	0.0046	U	0.0021
102	95	1,2,3,7,8-PeCDD	0.0080	U	0.0088	U	0.0048	U	0.0068	U	NA		NA		0.0041	U	0.0046	U	0.0022	U	0.0095	U	0.0027
103	96	Total PeCDD	0.0057-0.016	U	0.0033-0.010	U	0.0027-0.010	U	0.0039-0.012	U	NA		NA		0.0041	U	0.0046	U	0.0022	U	0.0095	U	0.0027
104	97	1,2,3,4,7,8-HxCDF	0.0054	U	0.0025	U	0.0048	U	0.0017	U	NA		NA		**0.0018**		0.0039	U	0.0018	U	0.0059	U	0.0024
105	98	1,2,3,6,7,8-HxCDF	0.0042	U	0.0042	U	0.0020	U	0.0035	U	NA		NA		0.0025	U	0.0036	U	0.0180	U	0.0024	U	**0.0015**
106	99	2,3,4,6,7,8-HxCDF	0.0052	U	0.0050	U	0.0038	U	0.0036	U	NA		NA		0.0041	U	0.0066	U	**0.0031**		0.0044	U	**0.0028**
107	100	1,2,3,7,8,9-HxCDF	0.0044	U	0.0040	U	0.0023	U	0.0026	U	NA		NA		0.0037	U	0.0032	U	0.0025	U	0.0056	U	0.0030
108	101	Total HxCDF	0.0052	U	0.0022-0.0063	U	0.0018-0.0071	U	0.0036	U	NA		NA		0.0072	U	**0.0031**		**0.0047**		0.0046	U	**0.0130**
109	102	1,2,3,4,7,8-HxCDD	0.0100	U	0.0058	U	0.0046	U	0.0072	U	NA		NA		0.0047	U	0.0032	U	0.0017	U	0.0085	U	0.0027
110	103	1,2,3,6,7,8-HxCDD	0.0100	U	0.0084	U	0.0068	U	0.0051	U	NA		NA		0.0039	U	0.0046	U	0.0015	U	0.0071	U	0.0031
111	104	1,2,3,7,8,9-HxCDD	0.0080	U	0.0073	U	0.0044	U	0.0041	U	NA		NA		0.0042	U	0.0037	U	0.0027	U	0.0041	U	0.0015
112	105	Total HxCDD	0.0047-0.014	U	0.0031-0.011	U	0.0025-0.011	U	0.0028-0.015	U	NA		NA		0.0043	U	0.0038	U	0.0020	U	0.0066	U	0.0024
113	106	1,2,3,4,6,7,8-HpCDF	0.0080	U	**0.0050**		**0.0031**		0.0021	U	NA		NA		0.0037	U	0.0180	U	0.0033	U	0.0023	U	**0.0018**
114	107	1,2,3,4,7,8,9-HpCDF	0.0089	U	0.0190	U	0.0063	U	0.0035	U	NA		NA		0.0055	U	0.0077	U	0.0039	U	0.0039	U	0.0023
115	108	Total HpCDF	0.0042-0.015	U	**0.0050**		**0.0110**		0.0011-0.0052	U	NA		NA		0.0046	U	0.0129	U	**0.0055**		0.0031	U	**0.0120**
116	109	1,2,3,4,6,7,8-HpCDD	0.0280	U	0.0250	U	**0.0089**		**0.0100**		NA		NA		0.0067	U	**0.0580**		**0.0067**		**0.0120**		**0.0070**
117	110	Total HpCDD	**0.0410**		0.0250	U	**0.0089**		**0.0100**		NA		NA		0.0067	U	**0.0058**		**0.0150**		**0.0250**		**0.0094**
118	111	OCDF	**0.0320**		**0.0300**		**0.0160**		0.0075	U	NA		NA		0.0110	U	**0.0074**		0.0110	U	**0.0180**		**0.0056**
119	112	OCDD	**0.2500**		**0.2300**		**0.0840**		0.0420	U	NA		NA		0.0210	U	**0.0490**		**0.0580**		**0.1600**		0.0530
120	113																						
121	114	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
122	115																						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW
1																											
2																											
3			J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1
4			AU22H		BC27K		9912050-03A		BH96R		BR64D		CB49G		CL03H		CT55F		DE68I		DM52B		DW48C		ED23C		EM85D
5			9/20/99		12/8/99		12/8/1999 (d)		2/16/00		5/24/00		8/29/00		11/10/00		2/14/01		6/5/01		8/14/01		11/29/01		2/26/02		6/26/02
87	**FIELD PARAMETERS**																										
88	pH (avg)		6.33		6.57		NM		6.59		6.38		6.58		5.27		6.17		6.64		6.85		6.60		6.42		6.52
89	Temperature (° C) (avg)		16.6		12.4		NM		14.3		14.8		15.6		14.4		14.3		13.6		15.8		14.6		13.6		15.4
90	Conductivity (um/hos)		222		245		NM		272		291		248		212		202		226		278		241		284		224
91	Dissolved oxygen (mg/L) (avg)		2.24		2.78		NM		1.57		1.74		1.62		1.09		0.57		1.51		1.44		3.88		6.41		4.98
92																											
93	**DIOXINS AND FURANS (ng/L)**																										
94	**Method 8290**																										
95	2,3,7,8-TCDF	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	Total TCDF	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	2,3,7,8-TCDD	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	Total TCDD	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	1,2,3,7,8-PeCDF	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	2,3,4,7,8-PeCDF	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	Total PeCDF	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	1,2,3,7,8-PeCDD	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	Total PeCDD	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	1,2,3,4,7,8-HxCDF	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	1,2,3,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	2,3,4,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	1,2,3,7,8,9-HxCDF	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	Total HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	1,2,3,4,7,8-HxCDD	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	1,2,3,6,7,8-HxCDD	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	1,2,3,7,8,9-HxCDD	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	Total HxCDD	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	1,2,3,4,7,8,9-HpCDF	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	Total HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	Total HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	OCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	OCDD	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																											
121	**ETHANOL (mg/L)**		NA		NA		10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
122																											

BZTO104(e)022166

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1																		
2																		
3			J1		J1		J1		J1		J1		J1		J1		J1	
4			ES04F		EZ03K		FF76J		FL58I		FU31A		FY64H		0402105-01		0408019-04	
5			08/28/02		11/12/02		2/12/03		5/8/03		8/27/03		10/21/03		2/20/04		8/03/04	
87	**FIELD PARAMETERS**																	
88	pH (avg)		6.79		6.4		6.9		6.6		6.46		6.80		6.23		7.68	
89	Temperature (° C) (avg)		15.7		15.6		13.7		13.7		15.8		17.8		14		17.1	
90	Conductivity (um/hos)		241		232		474		223		343		255		324		551	
91	Dissolved oxygen (mg/L) (avg)		1.34		3.21		0		3.1		2.23		1.65		1.21		NM	
92																		
93	**DIOXINS AND FURANS (ng/L)**																	
94	**Method 8290**																	
95	2,3,7,8-TCDF		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD		NA		NA		NA		NA		NA		NA		NA		NA	
120																		
121	**ETHANOL (mg/L)**		NA		NA		NA		NA		NA		NA		NA		NA	
122																		

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1																							
2					Dup of J1								Dup of J1										
3			J1		J1D		J1		J1		J1		J4		J1		J1		J1		J1		J1
4			S177H		S177I		T176P		U235J		V224O		V224K		W371N		Y314I		Z225O		Z960C		AH49C
5			4/2/97		4/2/97		7/16/97		10/22/97		1/29/98		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99
123	116	**PAHs (µg/L)**																					
124	117	**EPA Method SW8270 SIM**																					
125	118	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126	119	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127	120	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128	121	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129	122	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130	123	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131	124	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW
1																											
2																											
3			J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1		J1
4			AU22H		BC27K		9912050-03A		BH96R		BR64D		CB49G		CL03H		CT55F		DE68I		DM52B		DW48C		ED23C		EM85D
5			9/20/99		12/8/99		12/8/1999 (d)		2/16/00		5/24/00		8/29/00		11/10/00		2/14/01		6/5/01		8/14/01		11/29/01		2/26/02		6/26/02
123	**PAHs (µg/L)**																										
124	**EPA Method SW8270 SIM**																										
125	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127	Acenaphthylene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128	Acenaphthene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129	Fluorene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130	Anthracene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1																		
2																		
3			J1		J1		J1		J1		J1		J1		J1		J1	
4			ES04F		EZ03K		FF76J		FL58I		FU31A		FY64H		0402105-01		0408019-04	
5			08/28/02		11/12/02		2/12/03		5/8/03		8/27/03		10/21/03		2/20/04		8/03/04	
123	**PAHs (µg/L)**																	
124	**EPA Method SW8270 SIM**																	
125	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene		NA		NA		NA		NA		NA		NA		NA		1.01	U
128	Acenaphthene		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene		NA		NA		NA		NA		NA		NA		NA		1.01	U
131	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2													Dup of K								Dup of K						
3			K		K		K		K		K		W		K		K		K		Z		K		K		K
4			S177A		T176U		U235X		V208E		W391J		W391K		Y314L		Z225U		Z960W		Z960V		AH27C		BB82B		BH75J
5			4/1/97		7/16/97		10/23/97		1/28/98		5/19/98		5/19/98		8/17/98		11/13/98		2/16/99		2/16/99		5/17/99		12/6/99		2/15/00
7	1	**CHLORINATED PHENOLS (µg/L)**																									
8	2	**EPA Method SW8040**																									
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
16	10																										
17	11	**SEMIVOLATILES (µg/L)**																									
18	12	**EPA Method SW8270**																									
19	13	Phenol	2.0	UJ	2.0	U	2.0	U	2.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
20	14	4-Methylphenol	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
21	15	Isophorone	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
22	16	2,4-Dimethylphenol	3.0	UJ	3.0	U	3.0	U	3.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
23	17	Benzoic Acid	10	UJ	10	U	10	U	10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
24	18	Naphthalene	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
25	19	2-Methylnaphthalene	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
26	20	2,4,6-Trichlorophenol	5.0	UJ	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
27	21	2,4,5-Trichlorophenol	5.0	UJ	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
28	22	Acenaphthene	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
29	23	Dibenzofuran	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
30	24	Fluorene	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
31	25	Pentachlorophenol	5.0	UJ	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	3.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
33	27																										
34	28	**VOLATILES (µg/L)**																									
35	29	**EPA Method SW8260**																									
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA				NA		NA
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																										
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																									
58	51	**Method OR-DEQ**																									
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																										
63	56	**PRIORITY POLLUTANT**																									
64	57	**METALS (mg/L)**																									
65	58	Arsenic (7060)	0.001	U	**0.001**		0.05	U	0.05	U	**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	**0.004**		**0.010**

BZTO104(e)022171

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
1																												
2																												
3			K		K		K		K		K		K		K		K		K		K		K		K		K	
4			BR55O		CB49K		CK77L		CT37O		DE68D		DM52K		DW29I		ED16H		EM75F		ER92B		EZ03J		FF88G		FL41C	
5			5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03		5/7/03	
7	**CHLORINATED PHENOLS (µg/L)**																											
8	**EPA Method SW8040**																											
9	Pentachlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
10	2,4,6-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																												
17	**SEMIVOLATILES (µg/L)**																											
18	**EPA Method SW8270**																											
19	Phenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
20	4-Methylphenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
21	Isophorone		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
22	2,4-Dimethylphenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
23	Benzoic Acid		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
24	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
25	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
26	2,4,6-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
27	2,4,5-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
28	Acenaphthene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
29	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
30	Fluorene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
31	Pentachlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
32	bis(2-Ethylhexyl)phthalate		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
33																												
34	**VOLATILES (µg/L)**																											
35	**EPA Method SW8260**																											
36	Acetone		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
37	Carbon Disulfide		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
38	2-Butanone		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
39	Benzene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
40	Bromoform		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
41	Toluene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
42	Ethylbenzene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
43	Styrene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
44	m,p-Xylene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
45	o-Xylene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
46	1,3,5-Trimethylbenzene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
47	1,2,4-Trimethylbenzene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
48	Isopropylbenzene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
49	n-Propylbenzene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
50	tert-Butylbenzene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
51	sec-Butylbenzene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
52	4-Isopropyltoluene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
53	n-Butylbenzene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
54	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
55	Methyl tert-butyl ether		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																												
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																											
58	**Method OR-DEQ**																											
59	**TPH-Diesel**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	**TPH-D Motor Oil**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																												
63	**PRIORITY POLLUTANT**																											
64	**METALS (mg/L)**																											
65	Arsenic (7060)		0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	**0.001**		0.001	U	**0.001**		**0.002**		0.001	U	0.05	U	0.001	U	**0.001**	

BZTO104(e)022172

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1													
2													
3		K		K		K		K		K		K	
4		FU45B		FY64G		0402098-01		0406060-01		0408020-02		0411052-05	
5		8/28/03		10/21/03		2/19/04		6/9/04		8/03/04		11/9/04	
6													
7	**CHLORINATED PHENOLS (µg/L)**												
8	**EPA Method SW8040**												
9	Pentachlorophenol	NA		NA		NA		NA		NA		NA	
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA	
16													
17	**SEMIVOLATILES (µg/L)**												
18	**EPA Method SW8270**												
19	Phenol	NA		NA		NA		NA		NA		NA	
20	4-Methylphenol	NA		NA		NA		NA		NA		NA	
21	Isophorone	NA		NA		NA		NA		NA		NA	
22	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA	
23	Benzoic Acid	NA		NA		NA		NA		NA		NA	
24	Naphthalene	NA		NA		NA		NA		NA		NA	
25	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA	
26	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA	
27	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA	
28	Acenaphthene	NA		NA		NA		NA		NA		NA	
29	Dibenzofuran	NA		NA		NA		NA		NA		NA	
30	Fluorene	NA		NA		NA		NA		NA		NA	
31	Pentachlorophenol	NA		NA		NA		NA		NA		NA	
32	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA	
33													
34	**VOLATILES (µg/L)**												
35	**EPA Method SW8260**												
36	Acetone	NA		NA		NA		NA		NA		NA	
37	Carbon Disulfide	NA		NA		NA		NA		NA		NA	
38	2-Butanone	NA		NA		NA		NA		NA		NA	
39	Benzene	NA		NA		0.4	U	0.3	U	0.3	U	0.3	U
40	Bromoform	NA		NA		NA		NA		NA		NA	
41	Toluene	NA		NA		1	U	1	U	1	U	1	U
42	Ethylbenzene	NA		NA		1	U	1	U	1	U	1	U
43	Styrene	NA		NA		NA		NA		NA		NA	
44	m,p-Xylene	NA		NA		2	U	2	U	2	U	2	U
45	o-Xylene	NA		NA		1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	NA		NA		NA		NA		NA		NA	
47	1,2,4-Trimethylbenzene	NA		NA		NA		NA		NA		NA	
48	Isopropylbenzene	NA		NA		NA		NA		NA		NA	
49	n-Propylbenzene	NA		NA		NA		NA		NA		NA	
50	tert-Butylbenzene	NA		NA		NA		NA		NA		NA	
51	sec-Butylbenzene	NA		NA		NA		NA		NA		NA	
52	4-Isopropyltoluene	NA		NA		NA		NA		NA		NA	
53	n-Butylbenzene	NA		NA		NA		NA		NA		NA	
54	Naphthalene	NA		NA		NA		NA		NA		NA	
55	Methyl tert-butyl ether	NA		1	U	NA		NA		NA		NA	
56													
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**												
58	**Method OR-DEQ**												
59	**TPH-Diesel**	NA		NA		NA		NA		NA		NA	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		0.25	U	0.1	U	0.1	U	0.1	U	0.1	U
62													
63	**PRIORITY POLLUTANT**												
64	**METALS (mg/L)**												
65	Arsenic (7060)	**0.002**		0.001	U	NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2													Dup of K								Dup of K						
3			K		K		K		K		K		W		K		K		K		Z		K		K		K
4			S177A		T176U		U235X		V208E		W391J		W391K		Y314L		Z225U		Z960W		Z960V		AH27C		BB82B		BH75J
5			4/1/97		7/16/97		10/23/97		1/28/98		5/19/98		5/19/98		8/17/98		11/13/98		2/16/99		2/16/99		5/17/99		12/6/99		2/15/00
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.028**		**0.117**
67	60	Copper (6010)	**0.006**		**0.008**		0.002	U	**0.013**		**0.005**		**0.005**		**0.003**		0.002	U	**0.007**		**0.006**		**0.004**		**0.011**		**0.042**
68	61	Lead (7421)	0.001	U	0.001	U	0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.007**		**0.010**
69	62	Nickel (6010)	**0.03**		**0.04**		**0.13**		**0.10**		**0.04**		0.03		**0.01**		**0.07**		**0.06**		**0.06**		**0.03**		**0.27**		**0.17**
70	63	Zinc (6010)	**0.025**		**0.042**		**0.051**		**0.128**		**0.045**	J2	**0.045**	J2	**0.008**		**0.036**		**0.052**		**0.053**		0.020	U	**0.111**		**0.155**
71	64																										
72	65	**MAJOR IONS AND CONVENTIONALS**																									
73	66	Calcium (mg/L) (6010)	NA		NA		NA		**36.6**		NA		NA		NA		NA		NA		NA		NA		NA		NA
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		**8.47**		NA		NA		NA		NA		NA		NA		NA		NA		NA
75	68	Potassium (mg/L) (6010)	NA		NA		NA		**5.4**		NA		NA		NA		NA		NA		NA		NA		NA		NA
76	69	Sodium (mg/L) (6010)	NA		NA		NA		**5.50**		NA		NA		NA		NA		NA		NA		NA		NA		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		**370**		NA		NA		NA		NA		NA		NA		NA		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**130**	J2	**650**		**370**		NA		NA		NA		NA		NA		NA		NA		NA		NA
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
86	79																										

BZTO104(e)022174

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
1																												
2																												
3			K		K		K		K		K		K		K		K		K		K		K		K		K	
4			BR55O		CB49K		CK77L		CT37O		DE68D		DM52K		DW29I		ED16H		EM75F		ER92B		EZ03J		FF88G		FL41C	
5			5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03		5/7/03	
66	Chromium (6010)		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.009**		0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)		**0.002**		**0.004**		**0.004**	J2	**0.002**		0.002	U	**0.002**		**0.003**		**0.012**		**0.010**		**0.004**		**0.006**		**0.003**		**0.007**	
68	Lead (7421)		0.001	U	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		**0.003**		0.001	U	0.02	U	0.001	U	0.001	U
69	Nickel (6010)		**0.01**		**0.01**		**0.03**		**0.03**		**0.02**		**0.03**		**0.05**		**0.03**		**0.08**		**0.02**		**0.05**		**0.1**		**0.04**	
70	Zinc (6010)		**0.014**		**0.006**		**0.009**		**0.009**		**0.006**		**0.007**		**0.013**		**0.029**		**0.040**		**0.009**		**0.01**		**0.059**		**0.05**	J
71																												
72	**MAJOR IONS AND CONVENTIONALS**																											
73	Calcium (mg/L) (6010)		NA		NA		NA		NA		**65.3**		**40.3**		**79.8**		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)		NA		NA		NA		NA		**16.0**		**13.7**		**18.2**		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)		NA		NA		NA		NA		**6.9**		**4.4**		**7.6**		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)		NA		NA		NA		NA		**11.2**		**8.24**		**12.2**		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
81	Chloride (mg/L) (EPA 325.2)		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
82	N-Nitrate (mg-N/L) (Calculated)		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86																												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1													
2													
3		K		K		K		K		K		K	
4		FU45B		FY64G		0402098-01		0406060-01		0408020-02		0411052-05	
5		8/28/03		10/21/03		2/19/04		6/9/04		8/03/04		11/9/04	
66	Chromium (6010)	**0.006**		0.005	U	NA		NA		NA		NA	
67	Copper (6010)	**0.012**		**0.006**		NA		NA		NA		NA	
68	Lead (7421)	**0.005**		0.001	U	NA		NA		NA		NA	
69	Nickel (6010)	**0.04**		**0.03**		NA		NA		NA		NA	
70	Zinc (6010)	**0.029**		**0.014**		NA		NA		NA		NA	
71													
72	**MAJOR IONS AND CONVENTIONALS**												
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA		NA		NA		NA	
81	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA	
86													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2													Dup of K								Dup of K						
3			K		K		K		K		K		W		K		K		K		Z		K		K		K
4			S177A		T176U		U235X		V208E		W391J		W391K		Y314L		Z225U		Z960W		Z960V		AH27C		BB82B		BH75J
5			4/1/97		7/16/97		10/23/97		1/28/98		5/19/98		5/19/98		8/17/98		11/13/98		2/16/99		2/16/99		5/17/99		12/6/99		2/15/00
87	80	**FIELD PARAMETERS**																									
88	81	pH (avg)	5.70		5.88		5.68		5.22		5.14		5.15		5.37		5.23		4.89		4.87		4.86		4.91		5.40
89	82	Temperature (° C) (avg)	12.0		17.4		16.8		12.7		13.9		13.8		17.6		15.2		12.1		11.9		14.1		14.7		11.9
90	83	Conductivity (um/hos)	157		155		677		382		187		185		130		175		184		187		114		1790		259
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		3.50		3.50		2.23		2.20		2.79		2.79		2.38		2.90		5.01
92	85																										
93	86	**DIOXINS AND FURANS (ng/L)**																									
94	87	**Method 8290**																									
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																											
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
122																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
1																												
2																												
3			K		K		K		K		K		K		K		K		K		K		K		K		K	
4			BR55O		CB49K		CK77L		CT37O		DE68D		DM52K		DW29I		ED16H		EM75F		ER92B		EZ03J		FF88G		FL41C	
5			5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03		5/7/03	
87	**FIELD PARAMETERS**																											
88	pH (avg)		5.34		5.63		5.05		6.09		6.22		6.92		5.98		5.05		5.83		5.77		6.21		6.35		6.05	
89	Temperature (° C) (avg)		14.0		16.0		15.3		13.0		13.6		15.4		14.6		11.1		15.2		15.8		16		13.9		13.3	
90	Conductivity (um/hos)		157		161		323		694		531		350		645		78		199		157		325		835		143	
91	Dissolved oxygen (mg/L) (avg)		1.99		1.78		2.36		3.15		1.80		3.01		3.35		5.92		4.91		0.91		0.66		0		4.61	
92																												
93	**DIOXINS AND FURANS (ng/L)**																											
94	**Method 8290**																											
95	2,3,7,8-TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121	**ETHANOL (mg/L)**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1													
2													
3		K		K		K		K		K		K	
4		FU45B		FY64G		0402098-01		0406060-01		0408020-02		0411052-05	
5		8/28/03		10/21/03		2/19/04		6/9/04		8/03/04		11/9/04	
87	**FIELD PARAMETERS**												
88	pH (avg)	6.25		6.37		5.18		4.41		6.93		6.17	
89	Temperature (° C) (avg)	15.9		17.3		11.4		15.2		16		16.1	
90	Conductivity (um/hos)	193		250		109		197		292		269	
91	Dissolved oxygen (mg/L) (avg)	2.26		2.57		6.06		2.12		NM		1.55	
92													
93	**DIOXINS AND FURANS (ng/L)**												
94	**Method 8290**												
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA	
120													
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA	
122													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2													Dup of K								Dup of K						
3			K		K		K		K		K		W		K		K		K		Z		K		K		K
4			S177A		T176U		U235X		V208E		W391J		W391K		Y314L		Z225U		Z960W		Z960V		AH27C		BB82B		BH75J
5			4/1/97		7/16/97		10/23/97		1/28/98		5/19/98		5/19/98		8/17/98		11/13/98		2/16/99		2/16/99		5/17/99		12/6/99		2/15/00
123		**PAHs (µg/L)**																									
124		**EPA Method SW8270 SIM**																									
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
1																												
2																												
3			K		K		K		K		K		K		K		K		K		K		K		K		K	
4			BR55O		CB49K		CK77L		CT37O		DE68D		DM52K		DW29I		ED16H		EM75F		ER92B		EZ03J		FF88G		FL41C	
5			5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03		5/7/03	
123	**PAHs (µg/L)**																											
124	**EPA Method SW8270 SIM**																											
125	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1													
2													
3		K		K		K		K		K		K	
4		FU45B		FY64G		0402098-01		0406060-01		0408020-02		0411052-05	
5		8/28/03		10/21/03		2/19/04		6/9/04		8/03/04		11/9/04	
123	**PAHs (µg/L)**												
124	**EPA Method SW8270 SIM**												
125	Naphthalene	NA		0.1	U	NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		0.1	U	NA		NA		NA		NA	
127	Acenaphthylene	NA		0.1	U	NA		NA		NA		NA	
128	Acenaphthene	NA		0.1	U	NA		NA		NA		NA	
129	Fluorene	NA		0.1	U	NA		NA		NA		NA	
130	Anthracene	NA		0.1	U	NA		NA				NA	
131	Dibenzofuran	NA		0.1	U	NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
3			L		L		L		L		L		L		L		L		L		L		L		L		L
4			S167H		T176A		U258B		V232H		W371E		Y336F		Z225F		Z960B		AH49E		AU22C		BC27A		BH75I		BR64H
5			4/1/97		7/15/97		10/23/97		1/30/98		5/18/98		8/18/98		11/13/98		2/16/99		5/18/99		9/20/99		12/7/99		2/15/00		5/24/00
7	1	**CHLORINATED PHENOLS (µg/L)**																									
8	2	**EPA Method SW8040**																									
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
16	10																										
17	11	**SEMIVOLATILES (µg/L)**																									
18	12	**EPA Method SW8270**																									
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
33	27																										
34	28	**VOLATILES (µg/L)**																									
35	29	**EPA Method SW8260**																									
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	**2.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																										
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																									
58	51	**Method OR-DEQ**																									
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																										
63	56	**PRIORITY POLLUTANT**																									
64	57	**METALS (mg/L)**																									
65	58	Arsenic (7060)	0.001	U	0.001	U	0.05	U	0.05	U	0.001	U	0.001	U	**0.007**		0.001	U	0.001	U	**0.003**		0.001	U	**0.001**		0.001

BZTO104(e)022183

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH
1								
2								
3			L		L		L	
4			CT37D		ED16E		FF88K	
5			2/12/01		2/25/02		2/13/03	
7	**CHLORINATED PHENOLS (µg/L)**							
8	**EPA Method SW8040**							
9	Pentachlorophenol	U	0.25	U	0.25	U	0.26	U
10	2,4,6-Trichlorophenol	U	NA		NA		NA	
11	2,3,6-Trichlorophenol	U	NA		NA		NA	
12	2,4,5-Trichlorophenol	U	NA		NA		NA	
13	2,3,4-Trichlorophenol	U	NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	U	NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	U	NA		NA		NA	
16								
17	**SEMIVOLATILES (µg/L)**							
18	**EPA Method SW8270**							
19	Phenol	U	2.0	U	2.0	U	2	U
20	4-Methylphenol	U	1.0	U	1.0	U	1	U
21	Isophorone	U	1.0	U	1.0	U	1	U
22	2,4-Dimethylphenol	U	3.0	U	3.0	U	3.1	U
23	Benzoic Acid	U	10	U	50	U	51	U
24	Naphthalene	U	1.0	U	1.0	U	1	U
25	2-Methylnaphthalene	U	1.0	U	1.0	U	1	U
26	2,4,6-Trichlorophenol	U	5.0	U	5.0	U	5.1	U
27	2,4,5-Trichlorophenol	U	5.0	U	5.0	U	5.1	U
28	Acenaphthene	U	1.0	U	1.0	U	1	U
29	Dibenzofuran	U	1.0	U	1.0	U	1	U
30	Fluorene	U	1.0	U	1.0	U	1	U
31	Pentachlorophenol	U	5.0	U	5.0	U	5.1	U
32	bis(2-Ethylhexyl)phthalate	U	1.0	U	4.0	U	1	U
33								
34	**VOLATILES (µg/L)**							
35	**EPA Method SW8260**							
36	Acetone	U	6.1	U	5.0	U	5	U
37	Carbon Disulfide	U	1.0	U	1.0	U	1	U
38	2-Butanone	U	5.0	U	5.0	U	5	U
39	Benzene	U	1.0	U	1.0	U	1	U
40	Bromoform	U	1.0	U	1.0	U	1	U
41	Toluene	U	1.0	U	1.0	U	1	U
42	Ethylbenzene	U	1.0	U	1.0	U	1	U
43	Styrene	U	1.0	U	1.0	U	1	U
44	m,p-Xylene	U	1.0	U	1.0	U	1	U
45	o-Xylene	U	1.0	U	1.0	U	1	U
46	1,3,5-Trimethylbenzene	U	1.0	U	1.0	U	1	U
47	1,2,4-Trimethylbenzene	U	1.0	U	1.0	U	1	U
48	Isopropylbenzene	U	1.0	U	1.0	U	1	U
49	n-Propylbenzene	U	1.0	U	1.0	U	1	U
50	tert-Butylbenzene	U	1.0	U	1.0	U	1	U
51	sec-Butylbenzene	U	1.0	U	1.0	U	1	U
52	4-Isopropyltoluene	U	1.0	U	1.0	U	1	U
53	n-Butylbenzene	U	1.0	U	1.0	U	1	U
54	Naphthalene	U	5.0	U	5.0	U	5	U
55	Methyl tert-butyl ether		NA		NA		NA	
56								
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**							
58	**Method OR-DEQ**							
59	**TPH-Diesel**	U	0.25	U	0.25	U	0.25	U
60	**TPH-D Motor Oil**		NA		NA		NA	
61	**TPH-Gasoline**		NA		NA		NA	
62								
63	**PRIORITY POLLUTANT**							
64	**METALS (mg/L)**							
65	Arsenic (7060)	U	0.001	U	0.001	U	**0.001**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2																											
3			L		L		L		L		L		L		L		L		L		L		L		L		L
4			S167H		T176A		U258B		V232H		W371E		Y336F		Z225F		Z960B		AH49E		AU22C		BC27A		BH75I		BR64H
5			4/1/97		7/15/97		10/23/97		1/30/98		5/18/98		8/18/98		11/13/98		2/16/99		5/18/99		9/20/99		12/7/99		2/15/00		5/24/00
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.009**		0.005
67	60	Copper (6010)	**0.003**		**0.003**		**0.003**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.008**		**0.003**		**0.002**
68	61	Lead (7421)	**0.001**		0.001	U	0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.002**		0.001	U	0.001
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.01**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
70	63	Zinc (6010)	**0.004**		**0.004**	J2	**0.005**		**0.005**		**0.005**	J2	**0.005**		**0.004**		**0.051**		**0.004**		**0.008**		0.012	U	0.006	U	0.006
71	64																										
72	65	**MAJOR IONS AND CONVENTIONALS**																									
73	66	Calcium (mg/L) (6010)	**2.77**		**3.56**		**4.93**		**3.76**		NA		NA		NA		**3.24**		NA		NA		NA		NA		NA
74	67	Magnesium (mg/L) (6010)	**0.99**		**1.56**		**1.98**		**1.35**		NA		NA		NA		**1.18**		NA		NA		NA		NA		NA
75	68	Potassium (mg/L) (6010)	**1.2**		**0.8**		**1.6**		**1.1**		NA		NA		NA		**1.0**		NA		NA		NA		NA		NA
76	69	Sodium (mg/L) (6010)	**4.58**		**5.81**		**8.14**		**3.34**		NA		NA		NA		**3.61**		NA		NA		NA		NA		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**16**		**30**		**28**		**21**		NA		NA		NA		**16**		NA		NA		NA		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**16**		**30**		**28**		**21**		NA		NA		NA		**16**		NA		NA		NA		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**100**	J2	**57**		**60**	J2	46		74		130		**36**		**57**		**92**		**77**		**65**		**56**
81	74	Chloride (mg/L) (EPA 325.2)	1.0	U	**3.8**		**1.9**		**1.0**		1.0		1.0	U	1.7		1.0	U	**1.5**		**1.5**		**3.4**		**2.0**		**1.8**
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.34**	J	**0.01**		**0.84**		**0.31**	J2	NA		NA		NA		**0.24**	J	NA		NA		NA		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	0.010	U	0.010	U	0.010	UJ	NA		NA		NA		0.010	UJ	NA		NA		NA		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.34**	J	**0.01**		**0.84**		**0.31**	J2	NA		NA		NA		**0.24**	J	NA		NA		NA		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	**2.7**	J	**4.8**		**4.0**		**2.8**		NA		NA		NA		**3.6**		NA		NA		NA		NA		NA
86	79																										

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH
1								
2								
3			L		L		L	
4			CT37D		ED16E		FF88K	
5			2/12/01		2/25/02		2/13/03	
66	Chromium (6010)	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)		0.002	U	0.002	U	**0.004**	
68	Lead (7421)	U	0.001	U	0.001	U	**0.001**	
69	Nickel (6010)	U	0.01	U	0.01	U	0.01	U
70	Zinc (6010)	U	0.006	U	0.006	U	**0.009**	
71								
72	**MAJOR IONS AND CONVENTIONALS**							
73	Calcium (mg/L) (6010)		**11.5**		**3.20**		**2.61**	
74	Magnesium (mg/L) (6010)		**4.04**		**1.34**		**1.19**	
75	Potassium (mg/L) (6010)		**1.4**		**0.8**		**0.7**	
76	Sodium (mg/L) (6010)		**8.26**		**3.29**		**2.5**	
77	Alkalinity (mg/L CaCO3) (SM 2320)		**64**		**21**		**16**	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		1.0	U	1.0	U	1	U
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		**64**		**21**		**16**	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**120**		**57**		**66**	
81	Chloride (mg/L) (EPA 325.2)		**1.4**		**2.4**		**1**	
82	N-Nitrate (mg-N/L) (Calculated)		**0.47**		**0.36**		**0.45**	
83	N-Nitrite (mg-N/L) (EPA 354.1)		0.010	U	0.010	U	0.01	U
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		**0.47**	J	**0.36**		**0.45**	
85	Sulfate (mg/L) (EPA 375.2)		**4.4**		**3.6**		2.5	U
86								

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2																											
3			L		L		L		L		L		L		L		L		L		L		L		L		L
4			S167H		T176A		U258B		V232H		W371E		Y336F		Z225F		Z960B		AH49E		AU22C		BC27A		BH75I		BR64H
5			4/1/97		7/15/97		10/23/97		1/30/98		5/18/98		8/18/98		11/13/98		2/16/99		5/18/99		9/20/99		12/7/99		2/15/00		5/24/00
87	80	**FIELD PARAMETERS**																									
88	81	pH (avg)	6.02		6.18		6.24		7.10		5.49		5.87		5.84		6.26		5.54		5.41		5.72		6.16		5.94
89	82	Temperature (° C) (avg)	9.8		15.5		16.4		9.6		13.1		15.7		13.8		8.9		13.1		15.5		13.0		10.8		13.1
90	83	Conductivity (um/hos)	41		68		81		55		60		95		89		39		42		101		75		50		63
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		4.51		2.60		1.87		5.67		2.93		2.16		4.48		4.25		3.14
92	85																										
93	86	**DIOXINS AND FURANS (ng/L)**																									
94	87	**Method 8290**																									
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																											
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
122																											

BZTO104(e)022187

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH
1								
2								
3			L		L		L	
4			CT37D		ED16E		FF88K	
5			2/12/01		2/25/02		2/13/03	
87	**FIELD PARAMETERS**							
88	pH (avg)		6.07		5.89		7.12	
89	Temperature (° C) (avg)		13.2		8.5		11.2	
90	Conductivity (um/hos)		104		37		41	
91	Dissolved oxygen (mg/L) (avg)		2.56		7.55		0	
92								
93	**DIOXINS AND FURANS (ng/L)**							
94	**Method 8290**							
95	2,3,7,8-TCDF		NA		NA		NA	
96	Total TCDF		NA		NA		NA	
97	2,3,7,8-TCDD		NA		NA		NA	
98	Total TCDD		NA		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA		NA	
101	Total PeCDF		NA		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA		NA	
103	Total PeCDD		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA		NA	
108	Total HxCDF		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA		NA	
112	Total HxCDD		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA		NA	
115	Total HpCDF		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA	
117	Total HpCDD		NA		NA		NA	
118	OCDF		NA		NA		NA	
119	OCDD		NA		NA		NA	
120								
121	**ETHANOL (mg/L)**		NA		NA		NA	
122								

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2																											
3			L		L		L		L		L		L		L		L		L		L		L		L		L
4			S167H		T176A		U258B		V232H		W371E		Y336F		Z225F		Z960B		AH49E		AU22C		BC27A		BH75I		BR64H
5			4/1/97		7/15/97		10/23/97		1/30/98		5/18/98		8/18/98		11/13/98		2/16/99		5/18/99		9/20/99		12/7/99		2/15/00		5/24/00
123		**PAHs (µg/L)**																									
124		**EPA Method SW8270 SIM**																									
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH
1								
2								
3			L		L		L	
4			CT37D		ED16E		FF88K	
5			2/12/01		2/25/02		2/13/03	
123	**PAHs (µg/L)**							
124	**EPA Method SW8270 SIM**							
125	Naphthalene		NA		NA		NA	
126	2-Methylnaphthalene		NA		NA		NA	
127	Acenaphthylene		NA		NA		NA	
128	Acenaphthene		NA		NA		NA	
129	Fluorene		NA		NA		NA	
130	Anthracene		NA		NA		NA	
131	Dibenzofuran		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S	
4			S167K		T176E		U235T		V208F		W371G		Y336I		Z225E		Z960A		AH27G		AU45J		BB82C		BH75G		BR55G	
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/19/98		11/13/98		2/17/99		5/17/99		9/23/99		12/6/99		2/15/00		5/23/00	
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	UJ
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	51	**Method OR-DEQ**																										
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																											
63	56	**PRIORITY POLLUTANT**																										
64	57	**METALS (mg/L)**																										
65	58	Arsenic (7060)	**0.008**		**0.008**		0.05	U	0.05	U	**0.011**		**0.011**		**0.012**		**0.010**		**0.008**		**0.014**		**0.011**		**0.013**		**0.010**	

BZTO104(e)022191

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC
3		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S
4		CB49C		CK77D		CT37B		DE68F		DM52E		DW48M		ED16J		EM75G		ER92C		EY88E		FF88M		FL41F		FU31C		FY64J
5		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/29/01		2/25/02		6/25/02		08/26/02		11/11/02		2/13/03		5/7/03		8/27/03		10/21/03
7	**CHLORINATED PHENOLS (µg/L)**																											
8	**EPA Method SW8040**																											
9	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.28	U	0.25	U	0.25	U	0.26	U	0.54	U	0.5
10	2,4,6-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
11	2,3,6-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
12	2,4,5-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
13	2,3,4-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
15	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
16																												
17	**SEMIVOLATILES (µg/L)**																											
18	**EPA Method SW8270**																											
19	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.2	U	2	U	2	U	2	U	2.2	U	2
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.1	U	1
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.1	U	1
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.3	U	3	U	3	U	3.1	U	3.3	U	3
23	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	30	U	50	U	50	U	56	U	50	U	50	U	51	U	54	U	10
24	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.1	U	1
25	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.1	U	1
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5	U	5	U	5.1	U	5.4	U	5
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5	U	5	U	5.1	U	5.4	U	5
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.1	U	1
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.1	U	1
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.1	U	1
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5	U	5	U	5.1	U	5.4	U	5
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	4.0	U	4.4	U	4	U	1	U	1	U	1.1	U	1
33																												
34	**VOLATILES (µg/L)**																											
35	**EPA Method SW8260**																											
36	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
38	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5
39	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
41	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
42	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
44	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
45	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
46	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
47	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
48	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
49	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
50	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
51	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
52	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
53	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1
54	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1
56																												
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																											
58	**Method OR-DEQ**																											
59	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	NA		NA		NA		0.25	U	NA		NA		NA		0.25	U	NA		NA		NA
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.25
62																												
63	**PRIORITY POLLUTANT**																											
64	**METALS (mg/L)**																											
65	Arsenic (7060)	**0.010**		**0.011**		**0.010**		**0.009**		**0.011**		**0.012**		**0.023**		**0.010**		**0.011**		0.05	U	**0.014**		**0.007**		**0.009**		**0.008**

BZTO104(e)022192

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BD	BE	BF	BG	BH	BI	BJ	BK	BL
1										
2										
3			LW1S		LW1S		LW1S		LW1S	
4			0402098-02		0406060-02		0408020-01		0411052-06	
5			2/19/04		6/9/04		8/03/04		11/9/04	
7	**CHLORINATED PHENOLS (µg/L)**									
8	**EPA Method SW8040**									
9	Pentachlorophenol	U	NA		NA		NA		NA	
10	2,4,6-Trichlorophenol		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol		NA		NA		NA		NA	
16										
17	**SEMIVOLATILES (µg/L)**									
18	**EPA Method SW8270**									
19	Phenol	U	NA		NA		NA		NA	
20	4-Methylphenol	U	NA		NA		NA		NA	
21	Isophorone	U	NA		NA		NA		NA	
22	2,4-Dimethylphenol	U	NA		NA		NA		NA	
23	Benzoic Acid	U	NA		NA		NA		NA	
24	Naphthalene	U	NA		NA		NA		NA	
25	2-Methylnaphthalene	U	NA		NA		NA		NA	
26	2,4,6-Trichlorophenol	U	NA		NA		NA		NA	
27	2,4,5-Trichlorophenol	U	NA		NA		NA		NA	
28	Acenaphthene	U	NA		NA		NA		NA	
29	Dibenzofuran	U	NA		NA		NA		NA	
30	Fluorene	U	NA		NA		NA		NA	
31	Pentachlorophenol	U	NA		NA		NA		NA	
32	bis(2-Ethylhexyl)phthalate	U	NA		NA		NA		NA	
33										
34	**VOLATILES (µg/L)**									
35	**EPA Method SW8260**									
36	Acetone	U	NA		NA		NA		NA	
37	Carbon Disulfide	U	NA		NA		NA		NA	
38	2-Butanone	U	NA		NA		NA		NA	
39	Benzene	U	0.4	U	0.3	U	0.3	U	0.3	U
40	Bromoform	U	NA		NA		NA		NA	
41	Toluene	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	U	1	U	1	U	1	U	1	U
43	Styrene	U	NA		NA		NA		NA	
44	m,p-Xylene	U	2	U	2	U	2	U	2	U
45	o-Xylene	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	U	NA		NA		NA		NA	
47	1,2,4-Trimethylbenzene	U	NA		NA		NA		NA	
48	Isopropylbenzene	U	NA		NA		NA		NA	
49	n-Propylbenzene	U	NA		NA		NA		NA	
50	tert-Butylbenzene	U	NA		NA		NA		NA	
51	sec-Butylbenzene	U	NA		NA		NA		NA	
52	4-Isopropyltoluene	U	NA		NA		NA		NA	
53	n-Butylbenzene	U	NA		NA		NA		NA	
54	Naphthalene	U	NA		NA		NA		NA	
55	Methyl tert-butyl ether	U	NA		NA		NA		NA	
56										
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**									
58	**Method OR-DEQ**									
59	**TPH-Diesel**		NA		NA		NA		NA	
60	**TPH-D Motor Oil**		NA		NA		NA		NA	
61	**TPH-Gasoline**	U	0.1	U	0.1	U	0.1	U	0.1	U
62										
63	**PRIORITY POLLUTANT**									
64	**METALS (mg/L)**									
65	Arsenic (7060)		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S	
4			S167K		T176E		U235T		V208F		W371G		Y336I		Z225E		Z960A		AH27G		AU45J		BB82C		BH75G		BR55G	
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/19/98		11/13/98		2/17/99		5/17/99		9/23/99		12/6/99		2/15/00		5/23/00	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	60	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
68	61	Lead (7421)	0.001	U	0.001	U	0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	0.004	U	**0.005**	J2	**0.011**		0.004	U	**0.008**	J2	**0.012**		0.004	U	**0.010**	J	0.012	U	**0.005**		0.006	U	**0.007**		0.006	U
71	64																											
72	65	**MAJOR IONS AND CONVENTIONALS**																										
73	66	Calcium (mg/L) (6010)	**16.7**		**19.5**		**20.2**		**20.1**		NA		NA		NA		**18.4**		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**5.95**		**6.73**		**7.53**		**7.23**		NA		NA		NA		**6.09**		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**2.9**		**3.3**		**2.6**		**2.4**		NA		NA		NA		**2.8**		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**7.70**		**9.08**		**7.22**		**8.08**		NA		NA		NA		**8.54**		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**80**		**77**		**88**		**94**		NA		NA		NA		**87**		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**80**		**77**		**88**		**94**		NA		NA		NA		**87**		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**140**	J2	**130**		**140**		110		99		140		**120**		**130**		**140**		**150**		**140**		**130**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.1**	J	**2.3**		**2.5**		**2.4**		2.3		1.0	U	1.8		**1.2**		**1.2**		**2.4**		**3.7**		**2.9**		**3.4**	
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.58**	J	**1.3**		**0.11**		**0.48**		NA		NA		NA		**0.12**		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	0.010	U	0.010	U	0.010	U	NA		NA		NA		0.010	U	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.58**	J	**1.3**		**0.11**		**0.48**		NA		NA		NA		**0.12**		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	**9.3**	J	**13**		**5.5**		**5.1**		NA		NA		NA		**7.2**		NA		NA		NA		NA		NA	
86	79																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC
3		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S
4		CB49C		CK77D		CT37B		DE68F		DM52E		DW48M		ED16J		EM75G		ER92C		EY88E		FF88M		FL41F		FU31C		FY64J
5		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/29/01		2/25/02		6/25/02		08/26/02		11/11/02		2/13/03		5/7/03		8/27/03		10/21/03
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.007**		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
67	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.009**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.003**
68	Lead (7421)	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	**0.004**		0.001	U	0.001	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
70	Zinc (6010)	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	**0.030**		0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	**0.007**
72	**MAJOR IONS AND CONVENTIONALS**																											
73	Calcium (mg/L) (6010)	NA		NA		**25.5**		**28.4**		**25.8**		**27.3**		**30.4**		NA		NA		NA		**36.9**		NA		NA		NA
74	Magnesium (mg/L) (6010)	NA		NA		**9.47**		**10.6**		**10.2**		**10.4**		**11.7**		NA		NA		NA		**13.6**		NA		NA		NA
75	Potassium (mg/L) (6010)	NA		NA		**2.0**		**2.4**		**2.2**		**2.4**		**3.4**		NA		NA		NA		**3.2**		NA		NA		NA
76	Sodium (mg/L) (6010)	NA		NA		**7.23**		**7.87**		**7.24**		**7.20**		**10.2**		NA		NA		NA		**9.8**		NA		NA		NA
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		**120**		NA		NA		NA		**120**		NA		NA		NA		**150**		NA		NA		NA
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		1	U	NA		NA		NA
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		**120**		NA		NA		NA		**120**		NA		NA		NA		**150**		NA		NA		NA
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**160**		**170**		**170**		**180**		**160**		**170**		**160**		**200**		**210**		**210**		**180**		**190**		**190**		**200**
81	Chloride (mg/L) (EPA 325.2)	**3.5**		**3.6**		**4.1**		**3.1**		**3.7**		**2.6**		**3.2**		**2.7**		**3.1**		**3**		**3.6**		**2.4**		**3**		**3.2**
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		**0.17**		NA		NA		NA		**0.91**		NA		NA		NA		**0.66**		NA		NA		NA
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		0.010	U	NA		NA		NA		0.010	U	NA		NA		NA		0.01	U	NA		NA		NA
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		**0.17**	J	NA		NA		NA		**0.91**		NA		NA		NA		**0.66**		NA		NA		NA
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		**6.8**		NA		NA		NA		**5.7**		NA		NA		NA		**4.2**		NA		NA		NA

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BD	BE	BF	BG	BH	BI	BJ	BK	BL
1										
2										
3			LW1S		LW1S		LW1S		LW1S	
4			0402098-02		0406060-02		0408020-01		0411052-06	
5			2/19/04		6/9/04		8/03/04		11/9/04	
66	Chromium (6010)	U	NA		NA		NA		NA	
67	Copper (6010)		NA		NA		NA		NA	
68	Lead (7421)	U	NA		NA		NA		NA	
69	Nickel (6010)	U	NA		NA		NA		NA	
70	Zinc (6010)		NA		NA		NA		NA	
71										
72	**MAJOR IONS AND CONVENTIONALS**									
73	Calcium (mg/L) (6010)		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)				NA		NA		NA	
81	Chloride (mg/L) (EPA 325.2)				NA		NA		NA	
82	N-Nitrate (mg-N/L) (Calculated)		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)		NA		NA		NA		NA	
86										

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S	
4			S167K		T176E		U235T		V208F		W371G		Y336I		Z225E		Z960A		AH27G		AU45J		BB82C		BH75G		BR55G	
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/19/98		11/13/98		2/17/99		5/17/99		9/23/99		12/6/99		2/15/00		5/23/00	
87	80	**FIELD PARAMETERS**																										
88	81	pH (avg)	6.72		6.83		6.94		6.60		6.32		6.51		6.48		6.84		5.72		6.88		6.24		6.73		6.57	
89	82	Temperature (° C) (avg)	13.4		16.9		15.8		15.4		14.8		15.9		14.5		14.5		14.4		16.1		14.9		14.4		14.3	
90	83	Conductivity (um/hos)	190		203		154		213		195		193		100		174		146		197		212		206		182	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		1.73		1.84		3.04		3.91		1.22		2.53		2.34		2.17	
92	85																											
93	86	**DIOXINS AND FURANS (ng/L)**																										
94	87	**Method 8290**																										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC
3		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S
4		CB49C		CK77D		CT37B		DE68F		DM52E		DW48M		ED16J		EM75G		ER92C		EY88E		FF88M		FL41F		FU31C		FY64J
5		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/29/01		2/25/02		6/25/02		08/26/02		11/11/02		2/13/03		5/7/03		8/27/03		10/21/03
87	**FIELD PARAMETERS**																											
88	pH (avg)	6.49		5.21		6.56		6.75		6.94		6.71		6.22		6.57		6.61		6.62		6.94		6.88		6.86		6.77
89	Temperature (° C) (avg)	16.0		15.2		14.9		14.6		15.8		15.4		14.3		16.1		16.3		16		16		14.9		16.8		18.3
90	Conductivity (um/hos)	196		207		217		250		245		245		257		370		265		367		327		233		228		237
91	Dissolved oxygen (mg/L) (avg)	1.80		1.86		1.90		1.99		1.09		3.75		4.77		5.34		0.77		3.86		0		3.28		2.2		1.64
92																												
93	**DIOXINS AND FURANS (ng/L)**																											
94	**Method 8290**																											
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																												
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
122																												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BD	BE	BF	BG	BH	BI	BJ	BK	BL
1										
2										
3			LW1S		LW1S		LW1S		LW1S	
4			0402098-02		0406060-02		0408020-01		0411052-06	
5			2/19/04		6/9/04		8/03/04		11/9/04	
87	**FIELD PARAMETERS**									
88	pH (avg)		5.92		5.1		6.55		6.45	
89	Temperature (° C) (avg)		15.7		16.2		16.7		16.6	
90	Conductivity (um/hos)		277		207		269		228	
91	Dissolved oxygen (mg/L) (avg)		2.32		1.46		NM		2.02	
92										
93	**DIOXINS AND FURANS (ng/L)**									
94	**Method 8290**									
95	2,3,7,8-TCDF		NA		NA		NA		NA	
96	Total TCDF		NA		NA		NA		NA	
97	2,3,7,8-TCDD		NA		NA		NA		NA	
98	Total TCDD		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA		NA		NA	
101	Total PeCDF		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA		NA		NA	
103	Total PeCDD		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA		NA		NA	
108	Total HxCDF		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA		NA		NA	
112	Total HxCDD		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA		NA		NA	
115	Total HpCDF		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA		NA	
117	Total HpCDD		NA		NA		NA		NA	
118	OCDF		NA		NA		NA		NA	
119	OCDD		NA		NA		NA		NA	
120										
121	**ETHANOL (mg/L)**		NA		NA		NA		NA	
122										

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S	
4			S167K		T176E		U235T		V208F		W371G		Y336I		Z225E		Z960A		AH27G		AU45J		BB82C		BH75G		BR55G	
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/19/98		11/13/98		2/17/99		5/17/99		9/23/99		12/6/99		2/15/00		5/23/00	
123		**PAHs (µg/L)**																										
124		**EPA Method SW8270 SIM**																										
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC
1																												
2																												
3		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S		LW1S
4		CB49C		CK77D		CT37B		DE68F		DM52E		DW48M		ED16J		EM75G		ER92C		EY88E		FF88M		FL41F		FU31C		FY64J
5		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/29/01		2/25/02		6/25/02		08/26/02		11/11/02		2/13/03		5/7/03		8/27/03		10/21/03
123	**PAHs (µg/L)**																											
124	**EPA Method SW8270 SIM**																											
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.1
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.1
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.1
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.1
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.1
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.1
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.1

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BD	BE	BF	BG	BH	BI	BJ	BK	BL
1										
2										
3			LW1S		LW1S		LW1S		LW1S	
4			0402098-02		0406060-02		0408020-01		0411052-06	
5			2/19/04		6/9/04		8/03/04		11/9/04	
123	**PAHs (µg/L)**									
124	**EPA Method SW8270 SIM**									
125	Naphthalene	U	NA		NA		NA		NA	
126	2-Methylnaphthalene	U	NA		NA		NA		NA	
127	Acenaphthylene	U	NA		NA		NA		NA	
128	Acenaphthene	U	NA		NA		NA		NA	
129	Fluorene	U	NA		NA		NA		NA	
130	Anthracene	U	NA		NA		NA		NA	
131	Dibenzofuran	U	NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																									Dup of LW4S	
3			LW4S		LW4S		LW4S		LW4S		LW4S (a)		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW40S	
4			S167J		T176G		U235O		V232E		B802035-01		W391F		Y314F		Z225K		Z960L		AH49G		AU45B		AU45A	
5			4/1/97		7/15/97		10/22/97		1/30/98		1/30/98		5/20/98		8/17/98		11/14/98		2/18/99		5/18/99		9/22/99		9/22/99	
7	1	**CHLORINATED PHENOLS (µg/L)**																								
8	2	**EPA Method SW8040**																								
9	3	Pentachlorophenol	**5.3**		**1.7**		**1.2**		**0.43**		**0.282**		**5.3**		**5.9**		**3900**		**0.42**		**6.4**		**22**		**23**	
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	**0.85**		0.25	U	0.25	U	0.25	U	0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	4.4	U	0.25	U	0.25	U	0.29	U	0.29	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**0.32**		**0.16**	J1	0.25	U	0.25	U	0.250	U	**0.92**		**0.73**		**170**		0.25	U	**0.83**		**3.2**		**3.2**	
15	9	2,3,4,5-Tetrachlorophenol	**0.27**		0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	**15**	J1	0.25	U	0.25	U	0.25	U	0.25	U
16	10																									
17	11	**SEMIVOLATILES (µg/L)**																								
18	12	**EPA Method SW8270**																								
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	5.00	U	2.0	U	2.0	U	2.0	U	2.0	U	**170**	J2	2.0	U	2.0	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	5.00	U	1.0	U	1.0	U	1.0	U	1.0	U	**27**		1.0	U	1.0	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	10.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	NA		10	U	10	U	10	U	10	U	**29**		10	U	10	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	**39**		1.0	U	1.0	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	**55**		1.0	U	1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.00	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.00	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	**5.6**		**8.2**		**4200**		5.0	U	**2.3**	J1	**22**		**21**	
32	26	bis(2-Ethylhexyl)phthalate	**2.0**		**2.8**	J2	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
33	27																									
34	28	**VOLATILES (µg/L)**																								
35	29	**EPA Method SW8260**																								
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**12**		**13**	
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**1.8**		1.0	U	1.0	U	1.0	U	1.0	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**3.8**		1.0	U	1.0	U	**1.0**	J1	**1.4**	
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**20**		1.0	U	**8.1**		**1.4**		**1.9**	
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**5.7**		1.0	U	1.0	U	1.0	U	1.0	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**77**		1.0	U	1.0	U	**10**	J2	**13**	J2
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**5.3**		1.0	U	1.0	U	1.0	U	**1.1**	
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**6.0**		1.0	U	1.0	U	1.0	U	1.0	U
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	UJ	**5.9**		1.0	U	1.0	U	1.0	U	1.0	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	**2.5**		1.0	U	1.0	U	1.0	U	1.0	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	**7.1**		5.0	U	5.0	U	5.0	U	5.0	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																									
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	51	**Method OR-DEQ**																								
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	NA		**0.44**		**0.32**		**3.6**		0.25	U	0.25	U	**0.42**		**0.56**	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																									
63	56	**PRIORITY POLLUTANT**																								
64	57	**METALS (mg/L)**																								
65	58	Arsenic (7060)	0.001	U	**0.002**		0.05	U	0.05	U	NA		**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
2				Dup of LW4S																							
3		LW4S		LW40S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S	
4		BC27Q		BC27O		BH96D		BR55C		CB68C		CL03F		CT67C		DE87J		DM30C		DW29F		ED30G		EN00G		ER93K	
5		12/9/99		12/9/99		2/17/00		5/22/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02	
7	**CHLORINATED PHENOLS (µg/L)**																										
8	**EPA Method SW8040**																										
9	Pentachlorophenol	**5.4**		**5.4**		**2.5**		**740**	J2	**7200**		**48**		0.25	U	0.25	U	0.25	U	0.25	U	**2.0**		NA		NA	
10	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	**0.35**	J2	**2.2**		0.25	U	NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	**0.27**	J2	**6.1**		0.25	U	NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	**2.7**	J2	37	U	3.8	U	NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	**2.9**		0.25	U	NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**0.63**		**0.59**		**0.32**		**190**	J2	**730**		**4.1**		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	**1.6**		**130**		**5.9**		NA		NA		NA		NA		NA		NA		NA	
16																											
17	**SEMIVOLATILES (µg/L)**																										
18	**EPA Method SW8270**																										
19	Phenol	2.0	U	2.0	U	2.0	UJ	2.0	U	200	U	**730**		**100**		2.0	U	**3.3**		2.0	U	2.1	U	**56**		**210**	
20	4-Methylphenol	1.0	U	1.0	U	1.0	UJ	1.0	U	**3.6**	M	**120**		**210**		**1.7**		1.0	U	1.0	U	1.1	U	22	U	**50**	
21	Isophorone	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.0	U	1.2	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	UJ	3.0	U	3.0	U	9.0	U	**4.4**		**3.1**		**5.9**		3.0	U	3.2	U	3.0	U	3.8	U
23	Benzoic Acid	10	U	10	U	10	UJ	10	U	**44**		**96**		**200**		10	U	10	U	30	U	53	U	50	U	62	U
24	Naphthalene	1.0	U	1.0	U	1.0	UJ	**15**		**21**		**13**		**8.5**		**19**		**19**		1.0	U	1.1	U	**14**		**5.6**	
25	2-Methylnaphthalene	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	**5.7**		**3.6**		**9.5**		**12**		1.0	U	1.1	U	**7.5**		**2.1**	
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	UJ	5.0	U	5.0	U	15	U	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	**17**		**7.7**	
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	UJ	5.0	U	5.0	U	15	U	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	**8.9**		6.2	U
28	Acenaphthene	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.0	U	1.2	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.0	U	1.2	U
30	Fluorene	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.0	U	1.2	U
31	Pentachlorophenol	**4.9**	J1	**4.4**	J1	5.0	UJ	**760**	J2	**9400**	J2	**120**		5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	**2200**		**770**	
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.1	UJ	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**120**		4.0	U	5	U
33																											
34	**VOLATILES (µg/L)**																										
35	**EPA Method SW8260**																										
36	Acetone	5.0	U	5.0	U	5.0	U	**25**		**83**		**49**		**41**		5.0	U	15	U	5.0	U	5.0	U	**120**		**320**	
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	3	U
38	2-Butanone	5.0	U	5.0	U	5.0	U	**18**		25	U	**110**		**100**		5.0	U	15	U	5.0	U	5.0	U	**58**		**27**	
39	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	**7.4**		**110**		**80**		**78**		1.0	U	1.0	U	**4.1**		3	U
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	3	U
41	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	**9.2**		**19**		**25**		**41**		**6.9**		1.0	U	1.0	U	**7.5**		**10**	
42	Ethylbenzene	1.0	U	1.0	U	1.0	U	**9.8**		**94**		**61**		**79**		**190**		**140**		1.0	U	1.0	U	**68**		**94**	J
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	3	U
44	m,p-Xylene	1.0	U	1.0	U	1.0	U	**17**		**110**		**170**		**240**		**600**		**460**		1.0	U	1.0	U	**95**		**150**	
45	o-Xylene	1.0	U	1.0	U	1.0	U	**140**		**210**		**88**		**120**		**240**		**180**		1.0	U	1.0	U	**180**		**180**	
46	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	**3.2**		**140**		**46**		**58**		**130**		**94**		1.0	U	1.0	U	**58**		**150**	J
47	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	**33**		**500**		**160**		**130**		**350**		**280**		**1.5**		1.0	U	**230**		**540**	J
48	Isopropylbenzene	1.0	U	1.0	U	1.0	U	**28**		**48**		**19**		**28**		**62**		**37**		1.0	U	1.0	U	**38**		**63**	J
49	n-Propylbenzene	1.0	U	1.0	U	1.0	U	**9.8**		**79**		**27**		**36**		**79**		**48**		**1.1**		1.0	U	**43**		**94**	J
50	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	**3.4**		5.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	**3.1**		3	U
51	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	**26**		**25**		**7.7**		**7.0**		1.0	U	3.0	U	1.0	U	1.0	U	**16**		**21**	J
52	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	**19**		**4.8**		**4.9**		**9.9**		**6.7**		1.0	U	1.0	U	**8.8**		**16**	
53	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.6	U	13	U	6.8	U	**6.2**		10	U	7.5	U	1.0	U	1.0	U	7.9		**11**	J
54	Naphthalene	5.0	U	5.0	U	5.0	U	**26**		**31**		**19**		**18**		**48**		**27**		5.0	U	5.0	U	**21**		15	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																											
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	**Method OR-DEQ**																										
59	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	**3.6**		**15**		**19**		**3.4**		**7.9**		**4.1**		0.25	U	**0.34**		**25**		**9.9**	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		5.0	U	NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																											
63	**PRIORITY POLLUTANT**																										
64	**METALS (mg/L)**																										
65	Arsenic (7060)	0.001	U	0.001	U	0.001	U	**0.001**		**0.004**		**0.006**		**0.009**		**0.008**		**0.010**		**0.002**		0.001	U	**0.002**		**0.006**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR
1																			
2																		Dup of LW4S	
3		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		X	
4		EZ17E		FF65F		FL58F		FU45O		FY82K		0402113-07		0408036-08		0411066-12		0411066-01	
5		11/13/02		2/11/03		5/8/03		8/28/03		10/24/03		2/23/04		8/05/04		11/11/04		11/11/04	
6																			
7	**CHLORINATED PHENOLS (µg/L)**																		
8	**EPA Method SW8040**																		
9	Pentachlorophenol	**1.5**		0.26	U	NA		NA		**3.9**		0.49	U	NA		5.08	U	4.92	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																			
17	**SEMIVOLATILES (µg/L)**																		
18	**EPA Method SW8270**																		
19	Phenol	2.2	U	2	U	2	U	2	U	2	U	2.05	U	2	U	2.03	U	1.97	U
20	4-Methylphenol	1.1	U	1	U	1	U	1	U	1	U	10.2	U	10	U	10.2	U	9.83	U
21	Isophorone	1.1	U	1	U	1	U	1	U	1	U	1.02	U	1	U	1.02	U	0.983	U
22	2,4-Dimethylphenol	3.3	U	3.1	U	3	U	3	U	3	U	3.07	U	3	U	3.05	U	2.95	U
23	Benzoic Acid	54	U	51	U	50	U	50	U	10	U	20.5	U	20	U	20.3	U	19.7	U
24	Naphthalene	1.1	U	1	U	**4.8**		1	U	1	U	1.02	U	1	U	1.02	U	0.983	U
25	2-Methylnaphthalene	1.1	U	1	U	1	U	1	U	1	U	1.02	U	1	U	1.02	U	0.983	U
26	2,4,6-Trichlorophenol	5.4	U	5.1	U	5	U	5	U	5	U	5.12	U	5	U	5.08	U	4.92	U
27	2,4,5-Trichlorophenol	5.4	U	5.1	U	5	U	5	U	5	U	5.12	U	5	U	5.08	U	4.92	U
28	Acenaphthene	1.1	U	1	U	1	U	1	U	1	U	1.02	U	1	U	1.02	U	0.983	U
29	Dibenzofuran	1.1	U	1	U	1	U	1	U	1	U	1.02	U	1	U	1.02	U	0.983	U
30	Fluorene	1.1	U	1	U	1	U	1	U	1	U	1.02	U	1	U	1.02	U	0.983	U
31	Pentachlorophenol	5.4	U	5.1	U	**1400**		**17**		5	U	5.12	U	**8.52**		0.494	U	0.5	U
32	bis(2-Ethylhexyl)phthalate	4.3	U	1	U	**1**		1	U	1	U	1.02	U	1	U	1.02	U	0.983	U
33																			
34	**VOLATILES (µg/L)**																		
35	**EPA Method SW8260**																		
36	Acetone	19	U	5	U	**7.2**	M	5	U	5	U	50	U	50	U	50	U	50	U
37	Carbon Disulfide	1	U	1	U	1	U	1	U	1	U	2	U	2	U	2	U	2	U
38	2-Butanone	5	U	5	U	5	U	5	U	5	U	10	U	10	U	10	U	10	U
39	Benzene	1	U	1	U	**3.2**		1	U	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	**4.8**		1	U	**11**		1	U	1	U	1	U	1	U	1	U	1	U
43	Styrene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	**3.8**		1	U	**14**		1	U	1	U	2	U	2	U	2	U	2	U
45	o-Xylene	**5.9**		1	U	**59**		1	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	**1.7**		1	U	**18**		1	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	**19**		1	U	**210**		**1.2**	J	**1.4**		1	U	1	U	1	U	1	U
48	Isopropylbenzene	**4.5**		1	U	**24**		1	U	1	U	1	U	1	U	1	U	1	U
49	n-Propylbenzene	**5.4**		1	U	**27**		1	U	1	U	1	U	1	U	1	U	1	U
50	tert-Butylbenzene	1	U	1	U	**1.7**		1	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	**2**		1	U	**8.3**		1	U	1	U	1	U	1	U	1	U	1	U
52	4-Isopropyltoluene	1	U	1	U	**5.7**		1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	1	U	1	U	**5**	M	1	U	1	U	1	U	1	U	1	U	1	U
54	Naphthalene	5	U	5	U	**42**		5	U	5	U	1	U	1	U	1	U	1	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		1	U	1	U	1	U	1	U
56																			
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																		
58	**Method OR-DEQ**																		
59	**TPH-Diesel**	**3.2**		0.25	U	**5.3**		**0.36**		**0.26**		0.244	U	0.256	U	0.244	U	0.248	U
60	**TPH-D Motor Oil**	NA		NA		NA		NA		0.5	U	0.487	U	0.511	U	0.488	U	0.496	U
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																			
63	**PRIORITY POLLUTANT**																		
64	**METALS (mg/L)**																		
65	Arsenic (7060)	0.05	U	0.001	U	0.001	U	**0.002**		**0.001**		0.001	U	0.001	U	0.001	U	0.001	U

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																									Dup of LW4S	
3			LW4S		LW4S		LW4S		LW4S		LW4S (a)		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW40S	
4			S167J		T176G		U235O		V232E		B802035-01		W391F		Y314F		Z225K		Z960L		AH49G		AU45B		AU45A	
5			4/1/97		7/15/97		10/22/97		1/30/98		1/30/98		5/20/98		8/17/98		11/14/98		2/18/99		5/18/99		9/22/99		9/22/99	
66	59	Chromium (6010)	0.005	U	**0.015**		0.005	U	0.005	U	NA		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	60	Copper (6010)	**0.004**		**0.015**		0.002	U	**0.004**		NA		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
68	61	Lead (7421)	0.001	U	**0.006**		0.02	U	0.02	U	NA		0.001	U	0.001	U	0.001	U	0.001	U	**0.002**		0.001	U	0.001	U
69	62	Nickel (6010)	**0.02**		**0.02**		0.01	U	0.01	U	NA		0.01	U	0.01	U	0.01	U	0.01	U	**0.01**		0.01	U	0.01	U
70	63	Zinc (6010)	**0.008**		**0.035**		0.004	U	**0.009**		NA		**0.005**	J2	0.004	U	**0.005**		**0.009**	J2	**0.011**		**0.007**		0.004	U
71	64																									
72	65	**MAJOR IONS AND CONVENTIONALS**																								
73	66	Calcium (mg/L) (6010)	**20.7**		**20.4**		**16.9**		**15.1**		NA		NA		NA		NA		**10.7**		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**5.92**		**7.1**		**4.46**		**4.60**		NA		NA		NA		NA		**2.98**		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**3.9**		**4.5**		**4.2**		**3.5**		NA		NA		NA		NA		**2.6**		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**13.2**		**13.7**		**11.6**		**10.0**		NA		NA		NA		NA		**6.10**		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**75**		**64**		**62**		**64**		NA		NA		NA		NA		**43**		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		1.0	U	NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**75**		**64**		**62**		**64**		NA		NA		NA		NA		**43**		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**140**	J2	**110**		**140**	J2	NA		160		160		180		**110**		**140**		**150**		**160**	
81	74	Chloride (mg/L) (EPA 325.2)	**4.5**	J	**3.1**		**3.5**		**2.1**		NA		4.5		4.3		13		1.0	U	**2.2**		**7.1**		**6.9**	
82	75	N-Nitrate (mg-N/L) (Calculated)	**11**	J	**3.3**		**5.1**		**4.2**	J2	NA		NA		NA		NA		**1.8**		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	0.010	U	0.010	U	**0.021**	J2	NA		NA		NA		NA		0.010	U	NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**11**	J	**3.3**		**5.1**		**4.3**	J2	NA		NA		NA		NA		**1.8**		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	**13**	J	**15**		**4.5**		**6.8**		NA		NA		NA		NA		**6.5**		NA		NA		NA	
86	79																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2				Dup of LW4S																							
3		LW4S		LW40S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S	
4		BC27Q		BC27O		BH96D		BR55C		CB68C		CL03F		CT67C		DE87J		DM30C		DW29F		ED30G		EN00G		ER93K	
5		12/9/99		12/9/99		2/17/00		5/22/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	0.002	U	0.002	U	0.002	U	**0.008**		**0.016**		**0.008**		0.002	U	**0.002**		0.002	U	0.002	U	0.002	U	**0.085**		**0.05**	
68	Lead (7421)	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		**0.002**		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.001**	
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	**0.01**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.03**		0.01	U
70	Zinc (6010)	0.008	U	0.006	U	0.006	U	0.006	U	0.006	U	**0.009**		0.006	U	0.006	U	**0.007**		0.006	U	0.006	U	0.006	U	**0.011**	
71																											
72	**MAJOR IONS AND CONVENTIONALS**																										
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		**164**		**149**		**144**		**13.9**		**25.8**		**163**		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		**56.0**		**48.2**		**43.6**		**4.06**		**7.66**		**49.6**		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		**5.6**		**5.9**		**6.4**		**2.5**		**3.5**		**7.9**		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		**9.87**		**9.35**		**11.5**		**4.35**		**7.39**		**15.0**		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		**810**		NA		NA		NA		**80**		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		**810**		NA		NA		NA		**80**		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**120**		**120**		**150**		**490**		**420**		**990**		**760**		**720**	J	**580**	J	**95**		**300**		**890**		**380**	
81	Chloride (mg/L) (EPA 325.2)	**4.3**		**4.5**		**3.5**		**9.9**		**4.6**		**7.7**		**7.5**	J	**5.3**		**7.1**		**1.7**		**6.7**	J	**9.4**		**5.2**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**8.4**		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		**0.013**	J	NA		NA		NA		**0.022**		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**8.4**		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		**8.4**		NA		NA		NA		**18**		NA		NA	
86																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR
1																			
2																		Dup of LW4S	
3		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		X	
4		EZ17E		FF65F		FL58F		FU45O		FY82K		0402113-07		0408036-08		0411066-12		0411066-01	
5		11/13/02		2/11/03		5/8/03		8/28/03		10/24/03		2/23/04		8/05/04		11/11/04		11/11/04	
66	Chromium (6010)	**0.07**		0.005	U	0.005	U	0.005	U	**0.006**		**0.0071**		0.005	U	0.005	U	0.005	U
67	Copper (6010)	**0.163**		**0.002**		**0.028**		**0.003**		**0.006**		0.01	U	0.01	U	0.01	U	0.01	U
68	Lead (7421)	**0.04**		0.001	U	0.001	U	0.001	U	0.001	U	0.0001	U	0.0001	U	**0.00018**		**0.00067**	
69	Nickel (6010)	**0.11**		0.01	U	**0.01**		0.01	U	0.01	U	0.005	U	0.005	U	0.0121	U	0.0128	U
70	Zinc (6010)	**0.17**		0.006	U	0.006	U	0.006	U	**0.009**		0.01	U	0.01	U	0.01	U	0.01	U
71																			
72	**MAJOR IONS AND CONVENTIONALS**																		
73	Calcium (mg/L) (6010)	NA		**7.7**		NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		**2.25**		NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		**1.8**		NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		**4**		NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		**36**		NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		1	U	NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		**36**		NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**320**		**66**		**290**		**200**		**140**		**166**		**244**		**232**		**194**	
81	Chloride (mg/L) (EPA 325.2)	**7.3**		1	U	**9.8**		**5.8**		**3**		**6.03**		**15.5**		**2.29**	J	**1.78**	J
82	N-Nitrate (mg-N/L) (Calculated)	NA		**0.76**		NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		0.01	U	NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		**0.76**		NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		**6.4**		NA		NA		NA		NA		NA		NA		NA	
86																			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																									Dup of LW4S	
3			LW4S		LW4S		LW4S		LW4S		LW4S (a)		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW40S	
4			S167J		T176G		U235O		V232E		B802035-01		W391F		Y314F		Z225K		Z960L		AH49G		AU45B		AU45A	
5			4/1/97		7/15/97		10/22/97		1/30/98		1/30/98		5/20/98		8/17/98		11/14/98		2/18/99		5/18/99		9/22/99		9/22/99	
87	80	**FIELD PARAMETERS**																								
88	81	pH (avg)	6.46		6.86		6.76		6.61		6.61		6.08		6.23		6.33		6.31		5.67		6.51		6.49	
89	82	Temperature (° C) (avg)	11.3		17.0		14.9		12.1		12.1		12.6		16.6		14.3		10.0		13.3		15.4		15.4	
90	83	Conductivity (um/hos)	212		212		173		163		163		263		301		111		110		192		229		229	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		2.41		2.15		1.75		4.54		2.58		1.74		1.67	
92	85																									
93	86	**DIOXINS AND FURANS (ng/L)**																								
94	87	**Method 8290**																								
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																										
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																										

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2				Dup of LW4S																							
3		LW4S		LW40S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S	
4		BC27Q		BC27O		BH96D		BR55C		CB68C		CL03F		CT67C		DE87J		DM30C		DW29F		ED30G		EN00G		ER93K	
5		12/9/99		12/9/99		2/17/00		5/22/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02	
87	**FIELD PARAMETERS**																										
88	pH (avg)	6.57		6.57		6.48		6.28		5.70		5.74		6.31		6.80		6.75		6.21		5.64		6.23		6.68	
89	Temperature (° C) (avg)	13.0		12.9		13.1		14.5		15.1		14.3		13.5		14.2		16.2		14.6		12.6		14.4		15.8	
90	Conductivity (um/hos)	177		177		209		478		433		884		809		1400		973		129		253		843		477	
91	Dissolved oxygen (mg/L) (avg)	4.58		4.75		0.93		1.91		1.36		0.62		0.00		0.00		0.84		4		7.53		5.19		0.62	
92																											
93	**DIOXINS AND FURANS (ng/L)**																										
94	**Method 8290**																										
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																											
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR
1																			
2																		Dup of LW4S	
3		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		X	
4		EZ17E		FF65F		FL58F		FU45O		FY82K		0402113-07		0408036-08		0411066-12		0411066-01	
5		11/13/02		2/11/03		5/8/03		8/28/03		10/24/03		2/23/04		8/05/04		11/11/04		11/11/04	
87	**FIELD PARAMETERS**																		
88	pH (avg)	6.2		6.59		6.33		6.82		6.65		5.8		5.89		6.4		6.43	
89	Temperature (° C) (avg)	16.1		10.9		13		16.1		15.2		11.6		15.2		16.3		16.4	
90	Conductivity (um/hos)	465		85		383		231		217		166		438		199		200	
91	Dissolved oxygen (mg/L) (avg)	2.03		0		2.4		1.86		2.95		2.27		2.66		2.11		2.04	
92																			
93	**DIOXINS AND FURANS (ng/L)**																		
94	**Method 8290**																		
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																			
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																									Dup of LW4S	
3			LW4S		LW4S		LW4S		LW4S		LW4S (a)		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW40S	
4			S167J		T176G		U235O		V232E		B802035-01		W391F		Y314F		Z225K		Z960L		AH49G		AU45B		AU45A	
5			4/1/97		7/15/97		10/22/97		1/30/98		1/30/98		5/20/98		8/17/98		11/14/98		2/18/99		5/18/99		9/22/99		9/22/99	
123		**PAHs (µg/L)**																								
124		**EPA Method SW8270 SIM**																								
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2				Dup of LW4S																							
3		LW4S		LW40S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S	
4		BC27Q		BC27O		BH96D		BR55C		CB68C		CL03F		CT67C		DE87J		DM30C		DW29F		ED30G		EN00G		ER93K	
5		12/9/99		12/9/99		2/17/00		5/22/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02	
123	**PAHs (µg/L)**																										
124	**EPA Method SW8270 SIM**																										
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR
1																			
2																		Dup of LW4S	
3		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		LW4S		X	
4		EZ17E		FF65F		FL58F		FU45O		FY82K		0402113-07		0408036-08		0411066-12		0411066-01	
5		11/13/02		2/11/03		5/8/03		8/28/03		10/24/03		2/23/04		8/05/04		11/11/04		11/11/04	
123	**PAHs (µg/L)**																		
124	**EPA Method SW8270 SIM**																		
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		1	U	NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		1	U	NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

			C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
2					Dup of LW5S																					
3			LW5S		LW5D		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S	
4			S167E		S167F		T160A		U235G		V232G		W391C		Y336E		Z225G		Z960J		AH49F		AU22E		BC27C	
5			3/31/97		3/31/97		7/14/97		10/22/97		1/30/98		5/19/98		8/18/98		11/13/98		2/18/99		5/18/99		9/20/99		12/7/99	
7	1	**CHLORINATED PHENOLS (µg/L)**																								
8	2	**EPA Method SW8040**																								
9	3	Pentachlorophenol	**0.25**		**0.26**		**0.24**	J1	**0.25**		**0.27**		**0.18**	J1	**0.18**	J1	0.25	U	**0.25**		0.25	U	**0.13**	J1	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
16	10																									
17	11	**SEMIVOLATILES (µg/L)**																								
18	12	**EPA Method SW8270**																								
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
33	27																									
34	28	**VOLATILES (µg/L)**																								
35	29	**EPA Method SW8260**																								
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																									
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	51	**Method OR-DEQ**																								
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																									
63	56	**PRIORITY POLLUTANT**																								
64	57	**METALS (mg/L)**																								
65	58	Arsenic (7060)	**0.001**		**0.002**		**0.002**		0.05	U	0.05	U	**0.003**		**0.003**		**0.003**		**0.008**		**0.003**		**0.003**		**0.002**	

BZTO104(e)022215

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
3		LW5S		LW5S		LW5S		LW5S		LW5S	
4		BH96C		BR64F		CT37E		ED16F		FF88C	
5		2/17/00		5/24/00		2/12/01		2/25/02		2/13/03	
7	**CHLORINATED PHENOLS (µg/L)**										
8	**EPA Method SW8040**										
9	Pentachlorophenol	**0.18**	J1	0.25	U	0.25	U	0.25	U	0.25	U
10	2,4,6-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA	
11	2,3,6-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA	
12	2,4,5-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA	
13	2,3,4-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	NA		NA		NA	
16											
17	**SEMIVOLATILES (µg/L)**										
18	**EPA Method SW8270**										
19	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2	U
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3	U
23	Benzoic Acid	10	U	10	U	10	U	50	U	50	U
24	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
25	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5	U
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	4.0	U	1	U
33											
34	**VOLATILES (µg/L)**										
35	**EPA Method SW8260**										
36	Acetone	5.0	U	5.0	U	6.6	U	5.0	U	5	U
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1	U
38	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5	U
39	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1	U
41	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
42	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
44	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
45	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
46	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
47	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
48	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
49	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
50	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
51	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
52	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
53	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1	U
54	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA	
56											
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	**Method OR-DEQ**										
59	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA		NA	
62											
63	**PRIORITY POLLUTANT**										
64	**METALS (mg/L)**										
65	Arsenic (7060)	**0.003**		**0.003**		**0.002**		**0.003**		**0.003**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1					Dup of LW5S																					
3			LW5S		LW5D		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S	
4			S167E		S167F		T160A		U235G		V232G		W391C		Y336E		Z225G		Z960J		AH49F		AU22E		BC27C	
5			3/31/97		3/31/97		7/14/97		10/22/97		1/30/98		5/19/98		8/18/98		11/13/98		2/18/99		5/18/99		9/20/99		12/7/99	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.028**		0.005	U	0.005	U	0.005	U
67	60	Copper (6010)	**0.004**		**0.004**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.027**		0.002	U	0.002	U	0.002	U
68	61	Lead (7421)	**0.004**		**0.003**		**0.002**		0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	**0.036**		0.001	U	0.001	U	0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.02**		0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	**0.008**		**0.011**		**0.004**		**0.005**		**0.004**		**0.008**	J2	0.004	U	**0.006**		**0.081**		0.004	U	0.004	U	0.006	U
71	64																									
72	65	**MAJOR IONS AND CONVENTIONALS**																								
73	66	Calcium (mg/L) (6010)	**18.5**		**18.8**		**16**		**11.5**		**14.2**		NA		NA		NA		**22.3**		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**5.42**		**5.51**		**4.67**		**3.22**		**3.96**		NA		NA		NA		**9.38**		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**3.5**		**3.5**		**2.7**		**2.8**		**3.0**		NA		NA		NA		**4.8**		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**11.6**		**11.8**		**10.3**		**10.2**		**10.3**		NA		NA		NA		**13.4**		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**86**		**82**		**72**		**58**		**77**		NA		NA		NA		**78**		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**86**		**82**		**72**		**58**		**77**		NA		NA		NA		**78**		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		NT		**130**		**100**		**120**	J2	110		97		98		**120**		**160**		**120**		**110**	
81	74	Chloride (mg/L) (EPA 325.2)	1.0	U	**5.6**	J	**1.8**		**1.4**		**1.5**		2.5		1.0	U	1.5		**1.5**		**2.4**		**1.4**		**1.9**	
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.75**	J	0.010	U	**1.3**		**0.40**		**0.044**	J2	NA		NA		NA		**1.0**		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	**0.022**	J	0.010	U	0.010	U	**0.010**	J2	NA		NA		NA		**0.034**		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.75**	J	**0.016**	J	**1.3**		**0.40**		**0.054**	J2	NA		NA		NA		**1.0**		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	**11**	J	**4.0**	J	**10**		**5.7**		**6.7**		NA		NA		NA		**9.5**		NA		NA		NA	
86	79																									

BZTO104(e)022217

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1											
2											
3		LW5S		LW5S		LW5S		LW5S		LW5S	
4		BH96C		BR64F		CT37E		ED16F		FF88C	
5		2/17/00		5/24/00		2/12/01		2/25/02		2/13/03	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	**0.013**	
68	Lead (7421)	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	Zinc (6010)	0.006	U	0.006	U	0.006	U	0.006	U	**0.013**	
71											
72	**MAJOR IONS AND CONVENTIONALS**										
73	Calcium (mg/L) (6010)	NA		NA		**16.3**		**22.4**		**20.5**	
74	Magnesium (mg/L) (6010)	NA		NA		**4.44**		**6.49**		**5.99**	
75	Potassium (mg/L) (6010)	NA		NA		**2.6**		**3.4**		**3**	
76	Sodium (mg/L) (6010)	NA		NA		**9.64**		**11.4**		**10.1**	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		**81**		**100**		**88**	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		1.0	U	1.0	U	1	U
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		**81**		**100**		**88**	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**100**		**97**		**140**		**150**		**140**	
81	Chloride (mg/L) (EPA 325.2)	**1.9**		**1.6**		**6.3**		**1.1**		**2.1**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		**1.2**		**1.6**		**0.73**	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		0.010	U	0.010	U	0.01	U
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		**1.2**	J	**1.6**		**0.73**	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		**9.1**		**9.0**		**10**	
86											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2					Dup of LW5S																					
3			LW5S		LW5D		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S	
4			S167E		S167F		T160A		U235G		V232G		W391C		Y336E		Z225G		Z960J		AH49F		AU22E		BC27C	
5			3/31/97		3/31/97		7/14/97		10/22/97		1/30/98		5/19/98		8/18/98		11/13/98		2/18/99		5/18/99		9/20/99		12/7/99	
87	80	**FIELD PARAMETERS**																								
88	81	pH (avg)	6.56		6.56		6.58		6.74		6.86		6.24		6.33		6.19		6.65		5.79		6.43		6.33	
89	82	Temperature (° C) (avg)	11.7		11.7		14.3		14.7		13.8		13.0		16.0		13.3		14.2		12.8		17.2		13.1	
90	83	Conductivity (um/hos)	175		175		197		125		175		177		171		80		169		200		146		133	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		3.37		1.83		1.86		5.67		2.40		2.38		2.85	
92	85																									
93	86	**DIOXINS AND FURANS (ng/L)**																								
94	87	**Method 8290**																								
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																										
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																										

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1											
2											
3		LW5S		LW5S		LW5S		LW5S		LW5S	
4		BH96C		BR64F		CT37E		ED16F		FF88C	
5		2/17/00		5/24/00		2/12/01		2/25/02		2/13/03	
87	**FIELD PARAMETERS**										
88	pH (avg)	6.49		6.42		6.17		5.91		6.79	
89	Temperature (° C) (avg)	11.8		14.6		13.7		12.4		13.3	
90	Conductivity (um/hos)	149		144		148		221		208	
91	Dissolved oxygen (mg/L) (avg)	2.51		2.85		2.08		5.42		0	
92											
93	**DIOXINS AND FURANS (ng/L)**										
94	**Method 8290**										
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA	
120											
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA	
122											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2					Dup of LW5S																					
3			LW5S		LW5D		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S		LW5S	
4			S167E		S167F		T160A		U235G		V232G		W391C		Y336E		Z225G		Z960J		AH49F		AU22E		BC27C	
5			3/31/97		3/31/97		7/14/97		10/22/97		1/30/98		5/19/98		8/18/98		11/13/98		2/18/99		5/18/99		9/20/99		12/7/99	
123		**PAHs (µg/L)**																								
124		**EPA Method SW8270 SIM**																								
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1											
2											
3		LW5S		LW5S		LW5S		LW5S		LW5S	
4		BH96C		BR64F		CT37E		ED16F		FF88C	
5		2/17/00		5/24/00		2/12/01		2/25/02		2/13/03	
123	**PAHs (µg/L)**										
124	**EPA Method SW8270 SIM**										
125	Naphthalene	NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z			
2							Dup of LW7S																						
3			LW7S		LW7S		LW7D		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S				
4			S167M		T176S		T176T		U235W		V208D		W371I		Y314G		Z225R		Z960N		AH27E		AU22F		BB82A				
5			4/1/97		7/16/97		7/16/97		10/23/97		1/28/98		5/18/98		8/17/98		11/12/98		2/17/99		5/17/99		9/20/99		12/6/99				
7	1	**CHLORINATED PHENOLS (µg/L)**																											
8	2	**EPA Method SW8040**																											
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			
16	10																												
17	11	**SEMIVOLATILES (µg/L)**																											
18	12	**EPA Method SW8270**																											
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U			
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U			
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U			
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U			
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U			
24	18	Naphthalene	**23**		**43**		**42**		**13**		**13**		**19**	J2	**10**		**6.5**		**4.0**		**17**		**19**		**7.8**				
25	19	2-Methylnaphthalene	**6.9**		**16**		**15**		**7.4**		**4.1**		**5.9**	J2	**4.6**		**3.4**		**1.2**		**4.7**		**11**		**7.4**				
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U			
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U			
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U			
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U			
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U			
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U			
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	**3.6**	J2	2.7	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U			
33	27																												
34	28	**VOLATILES (µg/L)**																											
35	29	**EPA Method SW8260**																											
36	30	Acetone	5.0	U	20	U	10	U	5.0	U	57	U	5.0	U	5.0	U	**23**		13	U	**29**		5.0	U	5.0	U			
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U			
38	32	2-Butanone	**8.8**		**9.0**	J2	**12**	J2	5.0	U	**5.8**		**8.9**		**8.1**		**11**		**10**		**20**		5.0	U	5.0	U			
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U			
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U			
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U			
42	36	Ethylbenzene	**160**		**140**		**160**		**86**		**71**		**62**		**69**		**36**		**14**		**56**		**80**		**40**				
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U			
44	38	m,p-Xylene	**110**		**100**		**120**		**37**		**43**		**30**		**33**		**21**		**8.4**		**22**		**28**		**17**				
45	39	o-Xylene	**4.2**		**3.9**		**4.4**		**1.3**		**1.3**		**1.6**		**1.6**		**1.1**		1.0	U	**1.0**		**1.6**		1.0	U			
46	40	1,3,5-Trimethylbenzene	**15**		**24**		**25**		**21**		**6.4**		**9.1**		**5.9**		**8.0**		**2.0**		**8.3**		**4.4**		**2.4**				
47	41	1,2,4-Trimethylbenzene	**81**		**86**		**100**		**30**	J2	**15**		**9.9**		**7.0**		**2.9**		**3.7**		**17**		**6.3**		**2.5**				
48	42	Isopropylbenzene	**22**		**45**		**42**		**60**	J2	**20**		**29**		**33**		**38**		**7.9**		**27**		**36**		**29**				
49	43	n-Propylbenzene	**31**		**64**		60		**78**		**34**		**43**		**46**		**59**		**13**		**42**		**48**		**41**				
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U			
51	45	sec-Butylbenzene	**2.4**		**4.9**		**4.6**		**5.7**	J2	**3.6**		**3.6**		**4.1**	J2	**4.5**		**1.8**		**3.1**		**4.0**		**3.4**				
52	46	4-Isopropyltoluene	**2.5**		**4.2**		**4.2**		**3.4**	J2	**1.6**		**2.3**		**2.4**		**2.1**		1.0	U	**2.0**		**2.2**		**1.4**				
53	47	n-Butylbenzene	**3.6**		**7.4**		**7.4**		**6.4**	J2	5.0		**4.4**		**5.2**		**5.3**		**2.5**		**3.4**		**5.2**		**4.3**	M			
54	48	Naphthalene	**64**		**66**	J2	**87**	J2	**35**	J2	**37**		**28**		**32**		**22**		**9.1**		**29**		**41**		**9.6**				
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA				
56	49																												
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																											
58	51	**Method OR-DEQ**																											
59	52	**TPH-Diesel**	**0.48**		**0.54**		**0.48**		**0.56**		0.25	U	**0.40**		**0.28**		0.25	U	0.25	U	**0.27**		**0.54**		**0.40**				
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA				
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA				
62	55																												
63	56	**PRIORITY POLLUTANT**																											
64	57	**METALS (mg/L)**																											
65	58	Arsenic (7060)	**0.014**		**0.017**		**0.017**		0.05	U	0.05	U	**0.015**		**0.015**		**0.017**		**0.016**		**0.010**		**0.018**		**0.016**				

BZTO104(e)022223

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		BH75E		BR55H		CB49A		CK77C		CT37A		DE68A		DM52J		DW29A		ED16G		EM75E		ER92A		EZ03M		FF88E	
5		2/15/00		5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03	
7	**CHLORINATED PHENOLS (µg/L)**																										
8	**EPA Method SW8040**																										
9	Pentachlorophenol	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	**0.25**		0.25	U	0.25	U	0.28	U	0.25	U	0.26	U
10	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																											
17	**SEMIVOLATILES (µg/L)**																										
18	**EPA Method SW8270**																										
19	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.2	U	2.3	U	2	U
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.3	U	3.4	U	3.1	U
23	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	30	U	50	U	50	U	56	U	57	U	51	U
24	Naphthalene	**1.6**		**5.7**		**12**		**5.2**		**3.7**		2.0		**1.8**		**1.3**		1.0	U	**9.0**		**5.2**		**1.8**		**2.1**	
25	2-Methylnaphthalene	1.0	U	**1.2**		**3.7**		**1.6**		**1.4**		1.0	U	1.0	U	1.0	U	1.0	U	**3.0**		**2**		1.1	U	1	U
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5.7	U	5.1	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5.7	U	5.1	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5.7	U	5.1	U
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**4.3**		4.0	U	4.0	U	4.4	U	4.5	U	1	U
33																											
34	**VOLATILES (µg/L)**																										
35	**EPA Method SW8260**																										
36	Acetone	5.0	U	5.0	U	56	U	110	U	83	U	5.0	U	5.0	U	5.0	U	21	U	5.0	U	48	U	86	U	20	U
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U
38	2-Butanone	5.0	U	5.0	U	9.3	U	5.0	U	**8.2**		5.0	U	**7.7**		5.0	U	5.0	U	**13**		6.6	U	**21**	M	**9.3**	M
39	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U
41	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U
42	Ethylbenzene	**5.6**		**19**		**40**		**23**		**15**		**4.6**		**18**		**17**		**8.6**		**31**		**42**		**24**		**8.3**	
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U
44	m,p-Xylene	**2.8**		**8.8**		**15**		**19**		**9.1**		**5.4**		**10**		**13**		**3.7**		**15**		**18**		**12**		**6.3**	
45	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	**2.3**		**2.1**		**3.0**		**2.8**		**1.5**		1.0	U	**1.6**		**1.4**		1.0	U	**20**		**4**		**1.4**		**1**	
47	1,2,4-Trimethylbenzene	1.1	U	**4.6**		**3.0**		**1.6**		**1.2**		1.0	U	**2.3**		1.0	U	**1.1**		**6.9**		**4.9**		**1.2**		**2.1**	
48	Isopropylbenzene	**8.1**		**11**		**18**		**22**		**16**		**1.3**		**21**		**20**		**6.1**		**20**		**26**		**26**		**14**	
49	n-Propylbenzene	**15**		**18**		**28**		**33**		**25**		**1.3**		**27**		**27**		**11**		**30**		**40**		**36**		**23**	
50	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U
51	sec-Butylbenzene	**1.7**		**1.4**		**2.3**		**2.6**		**2.3**		1.0	U	**2.2**		**2.3**		1.0	U	**2.6**		**3.3**		**3**		**2.2**	
52	4-Isopropyltoluene	1.0	U	**1.5**		**1.1**		**1.2**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.6**		**2.2**		**1.1**		1	U
53	n-Butylbenzene	2.4	U	1.5	U	**2.8**		**3.2**		**2.6**		1.0	U	**2.8**	M	3.1	U	**1.0**		2.6	U	3.7	U	**3.2**	M	**2.5**	M
54	Naphthalene	5.0	U	**12**		**18**		**13**		**5.7**		5.0	U	**7.0**		5.0	U	5.0	U	**14**		**12**		**5.4**		5	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																											
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	**Method OR-DEQ**																										
59	**TPH-Diesel**	0.25	U	0.25	U	**0.32**		**0.32**		**0.32**		**20**		**0.26**		**0.42**		0.25	U	**0.31**		**0.53**		**0.5**		**0.31**	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.5	U	NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																											
63	**PRIORITY POLLUTANT**																										
64	**METALS (mg/L)**																										
65	Arsenic (7060)	**0.017**		**0.016**		**0.015**		**0.015**		**0.016**		**0.016**		**0.019**		**0.017**		**0.017**		**0.017**		**0.015**		0.05	U	**0.017**	

BZTO104(e)022224

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		FL41B		FU45A		FY64F		0402099-03		0406059-05		0408019-01		0411051-10	
5		5/7/03		8/28/03		10/20/03		2/19/04		6/9/04		8/03/04		11/9/04	
7	**CHLORINATED PHENOLS (µg/L)**														
8	**EPA Method SW8040**														
9	Pentachlorophenol	0.25	U	0.50	UJ	0.5	U	0.486	U	0.499	U	0.5	U	5.01	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
17	**SEMIVOLATILES (µg/L)**														
18	**EPA Method SW8270**														
19	Phenol	2	U	2	U	2	U	1.95	U	2.02	U	1.99	U	2	U
20	4-Methylphenol	1	U	1	U	1	U	9.75	U	10.1	U	9.96	U	10	U
21	Isophorone	1	U	1	U	1	U	0.975	U	1.01	U	0.996	U	1	U
22	2,4-Dimethylphenol	3	U	3.1	U	3	U	2.92	U	3.02	U	2.99	U	3.01	U
23	Benzoic Acid	50	U	51	U	10	U	19.5	U	20.2	U	19.9	U	20	U
24	Naphthalene	**1.2**		**4.4**		**4.4**		0.975	U	**5.13**		**4.43**		1	U
25	2-Methylnaphthalene	1	U	**1.3**		**1.9**		0.975	U	1.01	U	**1.66**		1	U
26	2,4,6-Trichlorophenol	5	U	5.1	U	5	U	4.87	U	5.04	U	4.98	U	5.01	U
27	2,4,5-Trichlorophenol	5	U	5.1	U	5	U	4.87	U	5.04	U	4.98	U	5.01	U
28	Acenaphthene	1	U	1	U	1	U	0.975	U	1.01	U	0.996	U	1	U
29	Dibenzofuran	1	U	1	U	1	U	0.975	U	1.01	U	0.996	U	1	U
30	Fluorene	1	U	1	U	1	U	0.975	U	1.01	U	0.996	U	1	U
31	Pentachlorophenol	5	U	5.1	U	5	U	4.87	U	5.04	U	4.98	U	0.488	U
32	bis(2-Ethylhexyl)phthalate	1	U	1	U	1	U	0.975	U	1.01	U	0.996	U	1	U
34	**VOLATILES (µg/L)**														
35	**EPA Method SW8260**														
36	Acetone	**36**	M	5	U	5	U	50	U	50	U	50	U	50	U
37	Carbon Disulfide	1	U	1	U	1	U	2	U	2	U	2	U	2	U
38	2-Butanone	**7.6**	M	**18**	M	**17**	M	10	U	10	U	10	U	10	U
39	Benzene	1	U	1	U	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	1	U	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	**10**	J	**42**		**29**		**7.76**		**50.8**		**78.8**		**13.8**	
43	Styrene	1	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	**5**	J	**20**	J	**16**		2	U	**21.6**		**33.2**		**15.3**	
45	o-Xylene	1	U	1	U	1	U	1	U	1	U	**1.02**		**1.87**	
46	1,3,5-Trimethylbenzene	1	U	**3.4**		**3.3**		1	U	**4.24**		**4.78**		**1.63**	
47	1,2,4-Trimethylbenzene	**1.1**	J	**3.2**	J	**2.2**		1	U	**3.34**		**3.58**		1	U
48	Isopropylbenzene	**8.7**	J	**31**		**42**		**13.6**		**24.9**		**54.7**		**34.4**	
49	n-Propylbenzene	**14**	J	**40**		**54**		**27.5**		**41.8**		**62.9**		**50**	
50	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	**1.5**	J	**2.9**		**3.7**		**2.18**		**2.15**		**4.13**		**2.8**	
52	4-Isopropyltoluene	1	U	**1.2**		**1.6**		1	U	1	U	**1.81**		**1.32**	
53	n-Butylbenzene	**1.8**	J	**3**		**4.3**		**2.67**		**2.16**		**3.74**		**3.79**	
54	Naphthalene	5	U	**6.6**		**5.5**		1	U	**11.3**		**10.1**		1	U
55	Methyl tert-butyl ether	NA		NA		1	U	1	U	1	U	1	U	1	U
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**														
58	**Method OR-DEQ**														
59	**TPH-Diesel**	0.25	U	**0.54**		**0.6**		**0.333**		**0.651**		**0.516**		**0.413**	
60	**TPH-D Motor Oil**	NA		NA		0.5	U	0.476	U	**0.567**		0.501	U	0.497	U
61	**TPH-Gasoline**	NA		NA		**2.1**		**1.2**		**0.38**		**1.73**		**1.63**	
63	**PRIORITY POLLUTANT**														
64	**METALS (mg/L)**														
65	Arsenic (7060)	**0.015**		**0.013**		**0.012**		**0.013**		**0.015**		**0.0143**		**0.0136**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2							Dup of LW7S																			
3			LW7S		LW7S		LW7D		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4			S167M		T176S		T176T		U235W		V208D		W371I		Y314G		Z225R		Z960N		AH27E		AU22F		BB82A	
5			4/1/97		7/16/97		7/16/97		10/23/97		1/28/98		5/18/98		8/17/98		11/12/98		2/17/99		5/17/99		9/20/99		12/6/99	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	60	Copper (6010)	**0.004**		**0.002**		**0.002**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
68	61	Lead (7421)	**0.003**		**0.005**		**0.005**		0.02	U	0.02	U	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	**0.001**		0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	**0.015**		**0.005**		**0.005**		0.004	U	**0.004**		**0.007**	J2	**0.008**		0.004	U	**0.007**	J	0.006	U	**0.004**		**0.007**	
71	64																									
72	65	**MAJOR IONS AND CONVENTIONALS**																								
73	66	Calcium (mg/L) (6010)	**24.9**		**27.9**		**26.9**		**31.4**		**30.6**		NA		NA		NA		**29.8**		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**9.15**		**10.2**		**9.94**		**11.6**		**11.0**		NA		NA		NA		**10.8**		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**2.7**		**3.0**		**2.9**		**2.9**		**2.5**		NA		NA		NA		**2.9**		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**8.93**		**9.78**		**9.84**		**9.53**		**9.52**		NA		NA		NA		**9.86**		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**120**		**93**	**J2**	**130**	**J2**	**160**		**150**		NA		NA		NA		**140**		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**120**		**93**	J2	**130**	J2	**160**		**150**		NA		NA		NA		**140**		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**180**	J2	**150**	J2	**170**		**180**		130		130		140		**190**		**200**		**180**		**190**	
81	74	Chloride (mg/L) (EPA 325.2)	**3.6**	J	**3.5**		**3.6**		**3.0**		**2.4**		2.8		1.0	U	1.9		**3.0**		**3.0**		**2.6**		**5.0**	
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.23**	J	0.010	U	0.010	U	**0.023**		**0.010**		NA		NA		NA		**0.24**		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	**0.015**	J	**0.021**	J2	**0.048**	J2	0.010	U	0.010	U	NA		NA		NA		**0.017**		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.25**	J	**0.016**	J2	**0.027**	J2	**0.023**		**0.010**		NA		NA		NA		**0.26**		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	**4.3**	J	**2.8**		**2.7**		2.5	U	2.5	U	NA		NA		NA		**7.7**		NA		NA		NA	
86	79																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2																											
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		BH75E		BR55H		CB49A		CK77C		CT37A		DE68A		DM52J		DW29A		ED16G		EM75E		ER92A		EZ03M		FF88E	
5		2/15/00		5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.008**	
68	Lead (7421)	0.001	U	**0.001**		0.001	U	**0.002**		0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	**0.002**		**0.002**		0.02	U	**0.005**	
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.01**	
70	Zinc (6010)	0.006	U	0.006	U	0.006	U	**0.024**		0.006	U	**0.009**		0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	**0.037**	
71																											
72	**MAJOR IONS AND CONVENTIONALS**																										
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		**29.4**		**37.4**		**41.0**		**36.2**		**35.4**		NA		NA		NA		**47.7**	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		**10.5**		**13.4**		**15.3**		**13.0**		**13.3**		NA		NA		NA		**18.9**	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		**2.5**		**3.1**		**3.2**		**3.4**		**3.5**		NA		NA		NA		**4.1**	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		**13.0**		**15.6**		**18.8**		**18.8**		**19.4**		NA		NA		NA		**17.6**	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		**160**		NA		NA		NA		**180**		NA		NA		NA		**220**	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		1	U
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		**160**		NA		NA		NA		**180**		NA		NA		NA		**220**	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**190**		**160**		**190**		**210**		**200**		**250**		**250**		**230**		**230**		**260**		**290**		**250**		**240**	
81	Chloride (mg/L) (EPA 325.2)	**3.6**		**3.5**		**2.9**		**4.1**		**2.8**		**3.3**		**5.3**		**2.6**		**3.6**		**3.5**		**7.4**		**4.7**		**5.1**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		0.010	U	NA		NA		NA		0.010	U	NA		NA		NA		**0.053**	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		0.010	U	NA		NA		NA		0.010	U	NA		NA		NA		**0.013**	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		0.010	UJ	NA		NA		NA		0.010	U	NA		NA		NA		**0.066**	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		**3.0**		NA		NA		NA		**7.9**		NA		NA		NA		2.5	U
86																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1															
2															
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		FL41B		FU45A		FY64F		0402099-03		0406059-05		0408019-01		0411051-10	
5		5/7/03		8/28/03		10/20/03		2/19/04		6/9/04		8/03/04		11/9/04	
66	Chromium (6010)	**0.016**		0.005	U	0.005	U	0.005	U	**0.0148**		**0.0146**		**0.0186**	
67	Copper (6010)	**0.014**		**0.002**		**0.003**		0.01	U	0.01	U	0.01	U	0.01	U
68	Lead (7421)	**0.006**		**0.001**		0.001	U	**0.0005**		0.0001	U	**0.000792**		**0.00073**	
69	Nickel (6010)	**0.03**		0.01	U	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U
70	Zinc (6010)	**0.108**	J	0.006	U	0.006	U	0.01	U	0.01	U	0.01	U	0.01	U
71															
72	**MAJOR IONS AND CONVENTIONALS**														
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**230**		**220**		**220**		**203**		**259**		**265**		**225**	
81	Chloride (mg/L) (EPA 325.2)	**2.1**		**2.5**		**2.9**		**5.73**		**3.53**		**3.43**		**3.2**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA	
86															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2							Dup of LW7S																			
3			LW7S		LW7S		LW7D		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4			S167M		T176S		T176T		U235W		V208D		W371I		Y314G		Z225R		Z960N		AH27E		AU22F		BB82A	
5			4/1/97		7/16/97		7/16/97		10/23/97		1/28/98		5/18/98		8/17/98		11/12/98		2/17/99		5/17/99		9/20/99		12/6/99	
87	80	**FIELD PARAMETERS**																								
88	81	pH (avg)	6.76		6.73		6.74		6.91		6.79		6.35		6.51		6.35		6.84		5.72		6.22		6.13	
89	82	Temperature (° C) (avg)	13.7		16.2		16.0		15.4		15.2		14.4		16.6		14.1		13.7		14.5		16.3		13.6	
90	83	Conductivity (um/hos)	278		299		303		310		323		315		308		121		309		293		267		297	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		NA		1.35		1.39		2.13		2.09		1.91		2.84	
92	85																									
93	86	**DIOXINS AND FURANS (ng/L)**																								
94	87	**Method 8290**																								
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																										
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																										

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2																											
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		BH75E		BR55H		CB49A		CK77C		CT37A		DE68A		DM52J		DW29A		ED16G		EM75E		ER92A		EZ03M		FF88E	
5		2/15/00		5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03	
87	**FIELD PARAMETERS**																										
88	pH (avg)	6.73		6.52		6.36		5.18		6.46		6.70		6.93		6.60		6.21		6.56		6.66		6.6		6.99	
89	Temperature (° C) (avg)	15.5		14.5		15.5		14.9		14.2		14.1		15.2		15.1		14.1		15.1		15.5		15.6		14.7	
90	Conductivity (um/hos)	296		263		299		302		300		419		433		378		351		408		364		352		492	
91	Dissolved oxygen (mg/L) (avg)	1.20		0.87		1.66		2.02		2.78		1.37		1.06		3.24		4.55		5.27		1.46		0.41		0	
92																											
93	**DIOXINS AND FURANS (ng/L)**																										
94	**Method 8290**																										
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																											
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1															
2															
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		FL41B		FU45A		FY64F		0402099-03		0406059-05		0408019-01		0411051-10	
5		5/7/03		8/28/03		10/20/03		2/19/04		6/9/04		8/03/04		11/9/04	
87	**FIELD PARAMETERS**														
88	pH (avg)	7.1		6.8		6.77		5.97		5.13		7.68		6.51	
89	Temperature (° C) (avg)	14.4		15.7		15.6		14.6		15.6		16.1		15.8	
90	Conductivity (um/hos)	320		308		308		300		352		451		285	
91	Dissolved oxygen (mg/L) (avg)	5.9		2.76		1.08		1.26		1.23		NM		1.68	
92															
93	**DIOXINS AND FURANS (ng/L)**														
94	**Method 8290**														
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA	
120															
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA	
122															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2							Dup of LW7S																			
3			LW7S		LW7S		LW7D		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4			S167M		T176S		T176T		U235W		V208D		W371I		Y314G		Z225R		Z960N		AH27E		AU22F		BB82A	
5			4/1/97		7/16/97		7/16/97		10/23/97		1/28/98		5/18/98		8/17/98		11/12/98		2/17/99		5/17/99		9/20/99		12/6/99	
123		**PAHs (µg/L)**																								
124		**EPA Method SW8270 SIM**																								
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		**4.0**		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		**1.3**		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																											
2																											
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		BH75E		BR55H		CB49A		CK77C		CT37A		DE68A		DM52J		DW29A		ED16G		EM75E		ER92A		EZ03M		FF88E	
5		2/15/00		5/23/00		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/27/01		2/25/02		6/25/02		08/26/02		11/12/02		2/13/03	
123	**PAHs (µg/L)**																										
124	**EPA Method SW8270 SIM**																										
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN
1															
2															
3		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S		LW7S	
4		FL41B		FU45A		FY64F		0402099-03		0406059-05		0408019-01		0411051-10	
5		5/7/03		8/28/03		10/20/03		2/19/04		6/9/04		8/03/04		11/9/04	
123	**PAHs (µg/L)**														
124	**EPA Method SW8270 SIM**														
125	Naphthalene	NA		NA		4.1		NA		**5.73**		**5.83**		**0.503**	
126	2-Methylnaphthalene	NA		NA		1.6		NA		NA		NA		**NA**	
127	Acenaphthylene	NA		NA		0.1	U	NA		0.05	U	0.05	U	0.0493	U
128	Acenaphthene	NA		NA		0.1	U	NA		0.05	U	**0.05**		0.0493	U
129	Fluorene	NA		NA		0.1	U	NA		0.05	U	0.05	U	0.0493	U
130	Anthracene	NA		NA		0.1	U	NA		0.05	U	0.05	U	0.0493	U
131	Dibenzofuran	NA		NA		0.1	U	NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2													Dup of LW8S						Dup of LW8S					
3			LW8S		LW8S		LW8S		LW8S		LW8S		Z		LW8S		LW8S		W		LW8S		LW8S	
4			AH27K		AU36D		BC30G		9912050-05A		BH96W		BH96V		BR64N		CB68F		CB68H		CL03A		CT67J	
5			5/17/99		9/21/99		12/8/99		12/8/1999 (d)		2/16/00		2/16/00		5/25/00		8/30/00		8/30/00		11/9/00		2/15/01	
7	1	**CHLORINATED PHENOLS (µg/L)**																						
8	2	**EPA Method SW8040**																						
9	3	Pentachlorophenol	0.25	U	0.25	U	**1.2**		NA		**0.13**	J1,J2	**0.27**	J2	**0.51**		0.25	U	0.25	U	0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		**0.14**	J1	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	**0.21**	J1	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
16	10																							
17	11	**SEMIVOLATILES (µg/L)**																						
18	12	**EPA Method SW8270**																						
19	13	Phenol	**2.7**		2.0	U	2.0	U	NA		**3.1**		2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
20	14	4-Methylphenol	**32**		1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	NA		3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	NA		10	U	10	U	10	U	10	U	10	U	10	U	10	U
24	18	Naphthalene	**99**		**74**		**120**		NA		**55**		**54**		**70**		**40**		**38**		**4.3**		**6.7**	
25	19	2-Methylnaphthalene	**76**		**58**		**72**		NA		**71**		**73**		**77**		**30**		**30**		**4.7**		**7.0**	
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	**6.9**		5.0	U	**5.8**		5.0	U	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	**6.8**		NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
33	27																							
34	28	**VOLATILES (µg/L)**																						
35	29	**EPA Method SW8260**																						
36	30	Acetone	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	12	J2	5.0	U	5.0	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	**11**		5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**12**		5.0	U
39	33	Benzene	**110**		**55**		**49**		NA		**62**		**60**		**77**		**29**		**29**		**5.0**		**9.1**	
40	34	Bromoform	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
42	36	Ethylbenzene	**180**		**160**		**170**		NA		**110**		**98**		**140**		**130**		**120**		**8.5**		**22**	
43	37	Styrene	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	**290**		**320**		**260**		NA		**160**		**130**		**180**		**200**		**200**		**2.2**		**4.7**	
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
46	40	1,3,5-Trimethylbenzene	**62**		**120**		**100**		NA		**57**	J2	**45**	J2	**52**		**81**		**81**		1.0	U	**4.1**	
47	41	1,2,4-Trimethylbenzene	**280**		**180**		**180**		NA		**140**		**120**		**130**		**130**		**120**		**2.6**		**6.4**	
48	42	Isopropylbenzene	**290**		**130**		**160**		NA		**190**		**180**		**250**		**120**		**120**		**100**		**100**	
49	43	n-Propylbenzene	**190**		**110**		**140**		NA		**150**		**150**		**170**		**100**		**98**		**56**		**83**	
50	44	tert-Butylbenzene	**5.7**		**5.6**		**6.6**		NA		**8.8**		**8.7**		**7.3**		**5.5**		**5.5**		**4.9**		**5.7**	
51	45	sec-Butylbenzene	**22**		**23**		**25**		NA		**30**		**29**		**28**		**20**		20		**11**		**14**	
52	46	4-Isopropyltoluene	**5.1**		**10**		**5.4**		NA		**4.2**		**3.4**		**3.9**		1.0	U	1.0	U	1.0	U	1.0	U
53	47	n-Butylbenzene	**12**		**18**		16	U	NA		**15**		**14**		**15**		**14**		13		**4.1**		**6.8**	
54	48	Naphthalene	**150**		**120**		**160**		NA		**180**		**160**		**150**		**110**		**100**		**6.6**		**19**	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																							
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																						
58	51	**Method OR-DEQ**																						
59	52	**TPH-Diesel**	**1.9**		**2.1**		**2.0**		NA		**2.2**	J2	**3.2**	J2	**2.6**		**1.6**		**1.6**		**2.3**		**3.4**	
60	53	**TPH-D Motor Oil**	0.50	U	0.50	U	0.50	U	NA		0.50	UJ	**1.3**	J2	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
61	54	**TPH-Gasoline**	**9.8**		**9.4**		**10**		NA		**9.5**		**10**		**15**		**13**		**13**		**3.9**		**4.6**	
62	55																							
63	56	**PRIORITY POLLUTANT**																						
64	57	**METALS (mg/L)**																						
65	58	Arsenic (7060)	**0.022**		**0.025**		**0.025**		NA		**0.027**		**0.027**		**0.023**		**0.022**		**0.023**		**0.022**		**0.022**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
2		Dup of LW8S								Dup of LW8S								Dup of LW8S							
3		W		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S	
4		CT67I		DE68N		DM30J		ED23J		ED23K		EM85G		ER92E		EZ17G		EZ17A		FF65C		FL58B		FU45I	
5		2/15/01		6/4/01		8/14/01		2/26/02		2/26/02		6/26/02		08/26/02		11/13/02		11/13/02		2/11/03		5/8/03		8/28/03	
7	**CHLORINATED PHENOLS (µg/L)**																								
8	**EPA Method SW8040**																								
9	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.27	U	0.25	U	0.25	U	1.2	U	0.26	U	**2.1**	J
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																									
17	**SEMIVOLATILES (µg/L)**																								
18	**EPA Method SW8270**																								
19	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.2	U	2.3	U	2.3	U	2	U	2	UJ	2	U
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1.1	U	1	U	1	UJ	1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1.1	U	1	U	1	UJ	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.3	U	3.5	U	3.4	U	3	U	3.1	UJ	3.1	U
23	Benzoic Acid	10	U	10	U	10	U	50	U	50	U	50	U	54	U	58	U	57	U	50	U	51	UJ	51	U
24	Naphthalene	**6.4**		**22**		**2.3**		**54**		**57**		**57**		**62**		**11**		**11**		**44**		**24**	J	**39**	
25	2-Methylnaphthalene	**6.8**		**14**		**2.6**		**69**		**74**		**51**		**44**		**22**		**25**		**47**		**49**	J	**31**	
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.4	U	5.8	U	5.7	U	5	U	5.1	UJ	5.1	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.4	U	5.8	U	5.7	U	5	U	5.1	UJ	5.1	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1.1	U	1	U	1	UJ	1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1.1	U	1	U	1	UJ	1	U
30	Fluorene	1.0	U	1.0	U	1.0	U	**1.3**		**1.2**		1.0	U	1.1	U	1.2	U	1.1	U	1	U	1	UJ	2	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.4	U	5.8	U	5.7	U	5	U	5.1	UJ	5.1	U
32	bis(2-Ethylhexyl)phthalate	1.0	U	**1.5**		1.0	U	**5.0**		4.0	U	4.0	U	4.3	U	4.7	U	4.5	U	1	U	1	UJ	1	U
33																									
34	**VOLATILES (µg/L)**																								
35	**EPA Method SW8260**																								
36	Acetone	5.0	U	5.0	U	8.2	U	5.0	U	5.0	U	**14**	M	15	U	**7.2**		**7.4**	M	**7.7**		**21**	M	**16**	J
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U	1	U	1	U	3	U	3	U
38	2-Butanone	5.0	U	5.0	U	5.3	U	5.0	U	5.0	U	5.9	U	15	U	5	U	5	U	5	U	15	U	15	U
39	Benzene	**9.1**		**9.0**		**2.0**		**30**		**30**		**91**	J	**35**		**2.5**		**2.4**		**15**		**31**		**19**	
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U	1	U	1	U	3	U	3	U
41	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U	1	U	1	U	3	U	3	U
42	Ethylbenzene	**23**		**61**		**11**		**420**	J	**390**		**300**	J	**280**		**37**		**33**		**240**		**270**		**180**	
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U	1	U	1	U	3	U	3	U
44	m,p-Xylene	**5.0**		**17**		1.0	U	**56**		**60**		**44**	J	**37**		**1**		1	U	**4.6**		**8.2**		**11**	J
45	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U	1	U	1	U	3	U	3	U
46	1,3,5-Trimethylbenzene	**5.0**		**15**		**1.7**		**62**		**64**		**67**	J	**68**		**7.7**		**6.3**		**9.1**		**9.6**		**13**	J
47	1,2,4-Trimethylbenzene	**7.1**		**23**		**1.8**		**130**		**140**		**150**	J	**170**		**13**		**11**		**23**		**29**		**28**	J
48	Isopropylbenzene	**130**		**130**		**67**		**240**	J	**240**		**260**	J	**240**		**180**		**170**		**240**		**340**		**260**	
49	n-Propylbenzene	**100**		**110**		**40**		**210**	J	**210**		**250**	J	**220**		**160**		**150**		**200**		**260**		**230**	
50	tert-Butylbenzene	**6.2**		**6.0**		**4.7**		**10**		**10**		**12**	MJ	**8.4**		**7.6**		**7.1**		**9.4**		**12**		**9.1**	
51	sec-Butylbenzene	**15**		**16**		**8.7**		**31**		**32**		**40**	J	**24**		**24**		**23**		**29**		**33**		**28**	
52	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3	U	1	U	1	U	1	U	3	U	3	U
53	n-Butylbenzene	**7.1**		8.0	U	**3.2**	M	**18**		**18**		**20**	MJ	**16**	M	**14**	M	**13**	M	**13**	M	**14**		**14**	
54	Naphthalene	**20**		**35**		5.0	U	**180**		**100**		**140**		**150**		**19**		**17**		**76**		**51**		**83**	
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																									
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	**Method OR-DEQ**																								
59	**TPH-Diesel**	**3.2**		**4.4**		**4.0**		**7.1**		**7.6**		**4.0**		**4.5**		**4.3**		**4.2**		**11**		**7.4**		**4.3**	
60	**TPH-D Motor Oil**	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
61	**TPH-Gasoline**	**4.9**		**4.7**		**3.9**		**12**	J	**12**		**11**		**10**		**7.8**		**8.6**		**9.8**		**9.5**	J	**7.4**	
62																									
63	**PRIORITY POLLUTANT**																								
64	**METALS (mg/L)**																								
65	Arsenic (7060)	**0.022**		**0.024**		**0.028**		**0.027**		**0.030**		**0.025**		**0.028**		0.05	U	0.05	U	**0.024**		**0.026**		**0.021**	

BZTO104(e)022236

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ
2		Dup of LW8S								Dup of LW8S					
3		X		LW8S		LW8S		LW8S		X		LW8S		LW8S	
4		FU45H		FY64L		0402113-09		0406059-07		0406059-06		0408036-02		0411051-09	
5		8/28/03		10/21/03		2/23/04		6/9/04		6/9/04		8/05/04		11/9/04	
7	**CHLORINATED PHENOLS (µg/L)**														
8	**EPA Method SW8040**														
9	Pentachlorophenol	**6.3**	J	0.55	U	0.504	U	0.517	U	0.491	U	0.5	U	5.04	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
16															
17	**SEMIVOLATILES (µg/L)**														
18	**EPA Method SW8270**														
19	Phenol	2.1	U	2.2	U	2.06	U	2.08	U	1.99	U	2	U	2.01	U
20	4-Methylphenol	1.1	U	1.1	U	10.3	U	10.4	U	9.94	U	10	U	10.1	U
21	Isophorone	1.1	U	1.1	U	1.03	U	1.04	U	0.994	U	1	U	1.01	U
22	2,4-Dimethylphenol	3.2	U	3.3	U	3.1	U	3.12	U	2.98	U	3	U	3.02	U
23	Benzoic Acid	53	U	11	U	20.6	U	20.8	U	19.9	U	20	U	20.1	U
24	Naphthalene	**40**		**2.2**		**15.2**		**25.4**		**29.2**		**6.7**		1.01	U
25	2-Methylnaphthalene	**34**		**3.1**		**20.3**		**19.6**		**22.1**		**6.88**		1.01	U
26	2,4,6-Trichlorophenol	5.3	U	5.5	U	5.16	U	5.21	U	4.97	U	5	U	5.04	U
27	2,4,5-Trichlorophenol	5.3	U	5.5	U	5.16	U	5.21	U	4.97	U	5	U	5.04	U
28	Acenaphthene	1.1	U	1.1	U	1.03	U	1.04	U	0.994	U	1	U	1.01	U
29	Dibenzofuran	1.1	U	1.1	U	1.03	U	1.04	U	0.994	U	1	U	1.01	U
30	Fluorene	1.6	U	1.1	U	1.03	U	1.04	U	0.994	U	1	U	1.01	U
31	Pentachlorophenol	5.3	U	5.5	U	5.16	U	5.21	U	4.97	U	5	U	0.525	U
32	bis(2-Ethylhexyl)phthalate	1.1	U	1.1	U	1.03	U	1.04	U	0.994	U	1	U	1.01	U
33															
34	**VOLATILES (µg/L)**														
35	**EPA Method SW8260**														
36	Acetone	5	U	5	U	50	U	50	U	50	U	50	U	50	U
37	Carbon Disulfide	1	U	1	U	2	U	2	U	2	U	2	U	2	U
38	2-Butanone	5	U	5	U	10	U	10	U	10	U	10	U	**45.8**	
39	Benzene	**23**		1	U	**5.11**		**9.45**		**9.52**		**1.86**		**0.59**	
40	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	1	U	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	**220**		**7.2**		**184**		**272**	J	**204**	J	**17.9**		**3.7**	
43	Styrene	1	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	**15**	J	1	U	2	U	2	U	2	U	**2.31**		2	U
45	o-Xylene	1	U	1	U	1	U	1	U	1	U	**1.21**		1	U
46	1,3,5-Trimethylbenzene	**16**	J	1	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	**36**	J	1	U	1	U	1	U	1	U	**3.74**		1	U
48	Isopropylbenzene	**280**		**140**		**239**		**244**		**215**		**232**		**52.4**	
49	n-Propylbenzene	**260**		**94**		**205**		**275**		**228**		**183**		**93.2**	
50	tert-Butylbenzene	**10**		**7.4**		**6.52**		**8.3**		**8.1**		**8.83**		**6.74**	
51	sec-Butylbenzene	**32**		**19**		**23.1**		**29.8**		**29.5**		**25.6**		**18.5**	
52	4-Isopropyltoluene	**2**		1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	**16**		**9**		**8.07**		**10.2**		**9.5**		**10.1**		**7.05**	
54	Naphthalene	**120**		5	U	**24.5**		**51.7**		**46.6**		**16.7**		1	U
55	Methyl tert-butyl ether	NA		NA		1	U	1	U	1	U	1	U	1	U
56															
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**														
58	**Method OR-DEQ**														
59	**TPH-Diesel**	**4.2**		**3.5**		**11.7**		**8.52**		**8.36**		**5.15**		**4.11**	
60	**TPH-D Motor Oil**	0.5	U	0.5	U	0.504	U	0.496	U	0.506	U	0.488	U	0.484	U
61	**TPH-Gasoline**	**7.5**		**4.6**		**9.2**		**8.62**		**8.37**		**4.44**		**4.37**	
62															
63	**PRIORITY POLLUTANT**														
64	**METALS (mg/L)**														
65	Arsenic (7060)	**0.024**		**0.021**		**0.025**		**0.023**		**0.023**		**0.0223**		**0.0239**	

BZTO104(e)022237

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2													Dup of LW8S						Dup of LW8S					
3			LW8S		LW8S		LW8S		LW8S		LW8S		Z		LW8S		LW8S		W		LW8S		LW8S	
4			AH27K		AU36D		BC30G		9912050-05A		BH96W		BH96V		BR64N		CB68F		CB68H		CL03A		CT67J	
5			5/17/99		9/21/99		12/8/99		12/8/1999 (d)		2/16/00		2/16/00		5/25/00		8/30/00		8/30/00		11/9/00		2/15/01	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	NA		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	60	Copper (6010)	0.002	U	0.002	U	0.002	U	NA		0.002	U	0.002	U	**0.003**		0.002	U	0.002	U	0.002	U	0.002	U
68	61	Lead (7421)	0.001	U	0.001	U	0.001	U	NA		**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	**0.005**		0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	NA		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	0.008	U	**0.008**		**0.006**		NA		0.006	U	0.006	U	**0.007**		0.006	U	**0.007**		**0.041**		0.006	U
71	64																							
72	65	**MAJOR IONS AND CONVENTIONALS**																						
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**25.5**	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**6.81**	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**2.6**	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**7.52**	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**170**	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1.0	U
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**170**	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**220**		**200**		**210**		NA		**190**		**210**		**180**		**210**		**210**		**190**		**220**	
81	74	Chloride (mg/L) (EPA 325.2)	**5.4**		**4.1**		**4.6**		NA		**4.1**		**3.4**		**3.7**		**2.2**		**2.3**		**4.2**		**3.4**	J2
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.010	U
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.051**	J2
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.041**	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**2.8**	
86	79																							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1																									
2		Dup of LW8S								Dup of LW8S								Dup of LW8S							
3		W		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S	
4		CT67I		DE68N		DM30J		ED23J		ED23K		EM85G		ER92E		EZ17G		EZ17A		FF65C		FL58B		FU45I	
5		2/15/01		6/4/01		8/14/01		2/26/02		2/26/02		6/26/02		08/26/02		11/13/02		11/13/02		2/11/03		5/8/03		8/28/03	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.017**		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.029**		0.002	U	0.002	U	**0.004**		0.002	U	0.002	U
68	Lead (7421)	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.006**		0.02	U	0.02	U	**0.002**		0.001	U	0.001	U
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.04**		0.01	U	0.01	U	**0.01**		0.01	U	0.01	U
70	Zinc (6010)	0.006	U	**0.007**		0.006	U	0.006	U	0.006	U	0.006	U	**0.096**		**0.009**		0.006	U	**0.013**		**0.582**		0.006	U
71																									
72	**MAJOR IONS AND CONVENTIONALS**																								
73	Calcium (mg/L) (6010)	**25.6**		**31.1**		**27.5**		**41.6**		**38.6**		NA		NA		NA		NA		**33.8**		NA		NA	
74	Magnesium (mg/L) (6010)	**6.85**		**8.18**		**7.58**		**9.98**		**9.30**		NA		NA		NA		NA		**8.4**		NA		NA	
75	Potassium (mg/L) (6010)	**2.5**		**2.8**		**2.8**		**4.2**		**4.0**		NA		NA		NA		NA		**3.4**		NA		NA	
76	Sodium (mg/L) (6010)	**7.55**		**8.47**		**7.86**		**9.95**		**9.31**		NA		NA		NA		NA		**7.8**		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	**160**		NA		NA		**220**		**230**		NA		NA		NA		NA		**190**		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	NA		NA		1.0	U	1.0	U	NA		NA		NA		NA		1	U	NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**160**		NA		NA		**220**		**230**		NA		NA		NA		NA		**190**		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**210**		**250**		**200**		**300**		**290**		**240**		**220**		**200**		**200**		**280**		**260**		**250**	
81	Chloride (mg/L) (EPA 325.2)	**4.9**	J	**2.8**		**5.3**		**4.2**		**3.6**		**4.4**		**2.7**		**2.9**		**2.9**		**3.7**		**2.3**		**2.3**	
82	N-Nitrate (mg-N/L) (Calculated)	0.010	U	NA		NA		0.010	U	**0.012**		NA		NA		NA		NA		0.01	U	NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	**0.035**	J	NA		NA		**0.059**		**0.054**		NA		NA		NA		NA		**0.072**		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.035**		NA		NA		**0.044**	J	**0.066**	J	NA		NA		NA		NA		**0.062**		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	2.5	U	NA		NA		2.5	U	**3.2**		NA		NA		NA		NA		**3.8**		NA		NA	
86																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ
1															
2		Dup of LW8S								Dup of LW8S					
3		X		LW8S		LW8S		LW8S		X		LW8S		LW8S	
4		FU45H		FY64L		0402113-09		0406059-07		0406059-06		0408036-02		0411051-09	
5		8/28/03		10/21/03		2/23/04		6/9/04		6/9/04		8/05/04		11/9/04	
66	Chromium (6010)	0.005	U	**0.007**		**0.0064**		**0.0144**		**0.0161**		0.005	U	0.005	U
67	Copper (6010)	**0.002**		**0.007**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
68	Lead (7421)	0.001	U	**0.002**		**0.0001**		0.0001	U	0.0001	U	0.0001	U	0.00013	U
69	Nickel (6010)	0.01	U	**0.02**		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
70	Zinc (6010)	0.006	U	**0.027**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
71															
72	**MAJOR IONS AND CONVENTIONALS**														
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**250**		**260**		**263**		**271**		**300**		**709**		**240**	
81	Chloride (mg/L) (EPA 325.2)	**2.2**		**4.8**		**3.31**		**2.96**		**3.39**		**3.24**		**3.72**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA	
86															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2													Dup of LW8S						Dup of LW8S					
3			LW8S		LW8S		LW8S		LW8S		LW8S		Z		LW8S		LW8S		W		LW8S		LW8S	
4			AH27K		AU36D		BC30G		9912050-05A		BH96W		BH96V		BR64N		CB68F		CB68H		CL03A		CT67J	
5			5/17/99		9/21/99		12/8/99		12/8/1999 (d)		2/16/00		2/16/00		5/25/00		8/30/00		8/30/00		11/9/00		2/15/01	
87	80	**FIELD PARAMETERS**																						
88	81	pH (avg)	5.55		6.10		6.28		NM		6.57		6.56		6.44		4.89		4.89		5.74		6.26	
89	82	Temperature (° C) (avg)	14.0		17.2		13.0		NM		13.2		13.2		13.4		15.2		15.3		14.7		13.6	
90	83	Conductivity (um/hos)	357		303		328		NM		351		351		354		330		330		352		404	
91	84	Dissolved oxygen (mg/L) (avg)	2.14		2.13		2.06		NM		0.83		0.82		1.55		1.12		1.13		0.53		0.57	
92	85																							
93	86	**DIOXINS AND FURANS (ng/L)**																						
94	87	**Method 8290**																						
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																								
121		**ETHANOL (mg/L)**	NA		NA		NA		10	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
122																								

BZTO104(e)022241

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1																									
2		Dup of LW8S								Dup of LW8S								Dup of LW8S							
3		W		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S	
4		CT67I		DE68N		DM30J		ED23J		ED23K		EM85G		ER92E		EZ17G		EZ17A		FF65C		FL58B		FU45I	
5		2/15/01		6/4/01		8/14/01		2/26/02		2/26/02		6/26/02		08/26/02		11/13/02		11/13/02		2/11/03		5/8/03		8/28/03	
87	**FIELD PARAMETERS**																								
88	pH (avg)	6.28		6.49		6.61		6.37		6.37		6.23		6.42		6.17		6.16		6.74		6.58		6.64	
89	Temperature (° C) (avg)	13.6		14.4		15.0		13.6		13.6		15.3		16.1		14.7		14.6		15.2		12.9		16.5	
90	Conductivity (um/hos)	403		402		467		489		490		405		330		353		351		503		397		349	
91	Dissolved oxygen (mg/L) (avg)	0.53		1.58		1.85		6.71		6.75		3.92		0.87		1.82		1.94		1.29		3.35		1.61	
92																									
93	**DIOXINS AND FURANS (ng/L)**																								
94	**Method 8290**																								
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																									
121	**ETHANOL (mg/L)**	5.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																									

BZTO104(e)022242

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ
1															
2		Dup of LW8S								Dup of LW8S					
3		X		LW8S		LW8S		LW8S		X		LW8S		LW8S	
4		FU45H		FY64L		0402113-09		0406059-07		0406059-06		0408036-02		0411051-09	
5		8/28/03		10/21/03		2/23/04		6/9/04		6/9/04		8/05/04		11/9/04	
87	**FIELD PARAMETERS**														
88	pH (avg)	6.65		6.57		6.21		4.87		4.87		5.86		6.43	
89	Temperature (° C) (avg)	16.5		19.0		14.1		14.7		14.7		16.5		15.7	
90	Conductivity (um/hos)	348		352		402		368		368		523		343	
91	Dissolved oxygen (mg/L) (avg)	1.57		1.03		1.26		0.74		0.74		1.71		1.79	
92															
93	**DIOXINS AND FURANS (ng/L)**														
94	**Method 8290**														
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA	
120															
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA	
122															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2													Dup of LW8S						Dup of LW8S					
3			LW8S		LW8S		LW8S		LW8S		LW8S		Z		LW8S		LW8S		W		LW8S		LW8S	
4			AH27K		AU36D		BC30G		9912050-05A		BH96W		BH96V		BR64N		CB68F		CB68H		CL03A		CT67J	
5			5/17/99		9/21/99		12/8/99		12/8/1999 (d)		2/16/00		2/16/00		5/25/00		8/30/00		8/30/00		11/9/00		2/15/01	
123		**PAHs (µg/L)**																						
124		**EPA Method SW8270 SIM**																						
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1																									
2		Dup of LW8S								Dup of LW8S								Dup of LW8S							
3		W		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S		X		LW8S		LW8S		LW8S	
4		CT67I		DE68N		DM30J		ED23J		ED23K		EM85G		ER92E		EZ17G		EZ17A		FF65C		FL58B		FU45I	
5		2/15/01		6/4/01		8/14/01		2/26/02		2/26/02		6/26/02		08/26/02		11/13/02		11/13/02		2/11/03		5/8/03		8/28/03	
123	**PAHs (µg/L)**																								
124	**EPA Method SW8270 SIM**																								
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ
1															
2		Dup of LW8S								Dup of LW8S					
3		X		LW8S		LW8S		LW8S		X		LW8S		LW8S	
4		FU45H		FY64L		0402113-09		0406059-07		0406059-06		0408036-02		0411051-09	
5		8/28/03		10/21/03		2/23/04		6/9/04		6/9/04		8/05/04		11/9/04	
123	**PAHs (µg/L)**														
124	**EPA Method SW8270 SIM**														
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		1	U	NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		1	U	NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																						
2																						
3			LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S	
4			AH76O		BC30A		BH96G		BR64K		ED30B		EN00B		FF76B		FL41M		0402113-01		0406073-01	
5			5/19/99		12/8/99		2/17/00		5/25/00		2/27/02		6/27/02		2/12/03		5/7/03		2/23/04		6/10/04	
6																						
7	1	**CHLORINATED PHENOLS (µg/L)**																				
8	2	**EPA Method SW8040**																				
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.33**		0.493	U	0.478	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
16	10																					
17	11	**SEMIVOLATILES (µg/L)**																				
18	12	**EPA Method SW8270**																				
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2	U	2	U	1.98	U	NA	
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	9.9	U	NA	
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	0.99	U	NA	
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3	U	3	U	2.97	U	NA	
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	50	U	50	U	50	U	50	U	19.8	U	NA	
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	0.99	U	NA	
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	0.99	U	NA	
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	4.95	U	NA	
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	4.95	U	NA	
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	0.99	U	NA	
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	0.99	U	NA	
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	0.99	U	NA	
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	4.95	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	**22**		1.0	U	1.0	U	4.0	U	4.0	U	1	U	1	U	0.99	U	NA	
33	27																					
34	28	**VOLATILES (µg/L)**																				
35	29	**EPA Method SW8260**																				
36	30	Acetone	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	50	U	NA	
37	31	Carbon Disulfide	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	2	U	NA	
38	32	2-Butanone	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	10	U	NA	
39	33	Benzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	0.4	U	NA	
40	34	Bromoform	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA	
41	35	Toluene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA	
42	36	Ethylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA	
43	37	Styrene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA	
44	38	m,p-Xylene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	2	U	NA	
45	39	o-Xylene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA	
46	40	1,3,5-Trimethylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA	
47	41	1,2,4-Trimethylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA	
48	42	Isopropylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA	
49	43	n-Propylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA	
50	44	tert-Butylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA	
51	45	sec-Butylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA	
52	46	4-Isopropyltoluene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA	
53	47	n-Butylbenzene	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	NA	
54	48	Naphthalene	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	1	U	NA	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		1	U	NA	
56	49																					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																				
58	51	**Method OR-DEQ**																				
59	52	**TPH-Diesel**	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		0.501	U	NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																					
63	56	**PRIORITY POLLUTANT**																				
64	57	**METALS (mg/L)**																				
65	58	Arsenic (7060)	0.001	U	NA		**0.004**		**0.001**		**0.002**		**0.001**		0.001	U	0.001	U	0.001	U	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																						
2																						
3			LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S	
4			AH76O		BC30A		BH96G		BR64K		ED30B		EN00B		FF76B		FL41M		0402113-01		0406073-01	
5			5/19/99		12/8/99		2/17/00		5/25/00		2/27/02		6/27/02		2/12/03		5/7/03		2/23/04		6/10/04	
66	59	Chromium (6010)	0.005	U	NA		0.005	U	0.005	U	0.005	U	**0.007**		0.005	U	0.005	U	0.005	U	NA	
67	60	Copper (6010)	0.002	U	NA		**0.004**		0.002	U	0.002	U	**0.012**		**0.003**		0.002	U	0.01	U	NA	
68	61	Lead (7421)	0.001	U	NA		**0.003**		**0.001**		**0.001**		**0.001**		0.001	U	0.001	U	**0.0004**		NA	
69	62	Nickel (6010)	0.01	U	NA		0.01	U	0.01	U	0.01	U	**0.02**		0.01	U	0.01	U	0.005	U	NA	
70	63	Zinc (6010)	**0.004**		NA		**0.016**		**0.007**		**0.008**	J	**0.043**		**0.01**		0.006	U	0.01	U	NA	
71	64																					
72	65	**MAJOR IONS AND CONVENTIONALS**																				
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		**11.1**		**26.2**		**9.5**		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		**3.27**		**9.50**		**2.58**		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		**2.5**		**3.9**		**2.5**		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		**5.27**		**8.31**		**6**		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		**34**		NA		**36**		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		1.0	U	NA		1	U	NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		**34**		NA		**36**		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**84**		NA		**100**		**90**		**100**		**120**		**74**		**74**		**81**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	**1.3**		NA		**3.2**		**2.2**		**1.4**	J	**2.3**		**1.2**		**1.6**		**1.04**		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		**3.4**		NA		**2.1**		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		**0.014**		NA		0.01	U	NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		**3.4**		NA		**2.1**		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		**12**		NA		**5.6**		NA		NA		NA	
86	79																					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																						
2																						
3			LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S	
4			AH76O		BC30A		BH96G		BR64K		ED30B		EN00B		FF76B		FL41M		0402113-01		0406073-01	
5			5/19/99		12/8/99		2/17/00		5/25/00		2/27/02		6/27/02		2/12/03		5/7/03		2/23/04		6/10/04	
87	80	**FIELD PARAMETERS**																				
88	81	pH (avg)	6.01		NM		6.66		6.45		6.09		6.44		7.19		6.78		6.17		NA	
89	82	Temperature (° C) (avg)	13.6		NM		13.4		13.0		12.6		14.3		11.9		13		13.9		NA	
90	83	Conductivity (um/hos)	93		NM		111		129		109		149		110		88		75		NA	
91	84	Dissolved oxygen (mg/L) (avg)	5.76		NM		2.87		4.30		8.85		7.22		7.33		9.77		6.53		NA	
92	85																					
93	86	**DIOXINS AND FURANS (ng/L)**																				
94	87	**Method 8290**																				
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																						
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																						
2																						
3			LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S		LW10S	
4			AH76O		BC30A		BH96G		BR64K		ED30B		EN00B		FF76B		FL41M		0402113-01		0406073-01	
5			5/19/99		12/8/99		2/17/00		5/25/00		2/27/02		6/27/02		2/12/03		5/7/03		2/23/04		6/10/04	
123		**PAHs (µg/L)**																				
124		**EPA Method SW8270 SIM**																				
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
2					Dup of LW11S												Dup of LW11S							
3			LW11S		LW110S		LW11S		LW11S		LW11S		LW11S		LW11S		X		LW11S		LW11S		LW11S	
4			AH76E		AH76D		AU36F		BC27J		9912050-06A		BH96U		BR55L		BR55K		CB49J		CK77K		CT55H	
5			5/20/99		5/20/99		9/21/99		12/8/99		12/8/1999 (d)		2/17/00		5/23/00		5/23/00		8/28/00		11/8/00		2/14/01	
7	1	**CHLORINATED PHENOLS (µg/L)**																						
8	2	**EPA Method SW8040**																						
9	3	Pentachlorophenol	**15000**		**15000**		**9400**		**7200**		NA		**9700**		**7700**	J2	**7600**	J2	**3900**		NA		**320**	J
10	4	2,4,6-Trichlorophenol	**2.9**		**2.8**		**1.3**		**1.0**		NA		**1.8**		**1.4**		**1.2**		**0.68**		NA		NA	
11	5	2,3,6-Trichlorophenol	**0.13**	J1	0.25	U	0.25	U	**0.12**	J1	NA		**0.13**	J1	0.25	U	0.25	U	0.25	U	NA		NA	
12	6	2,4,5-Trichlorophenol	1.0	U	0.25	U	**0.32**		0.25	U	NA		**0.61**		**0.96**		**0.95**		0.72	U	NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.32	U	NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**750**		**750**		**450**		**360**		NA		**560**		**940**		**850**		**250**		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	**7.5**		**6.8**		**3.7**		**2.4**		NA		**6.2**		**4.2**		**4.4**		**2.5**		NA		NA	
16	10																							
17	11	**SEMIVOLATILES (µg/L)**																						
18	12	**EPA Method SW8270**																						
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	NA		2.0	U	2.0	U	2.0	U	2.0	U	NA		**10**	
20	14	4-Methylphenol	**3.5**	M	**2.8**	M	1.0	U	**1.4**	MJ1	NA		1.0	U	1.0	U	1.0	U	**3.5**		NA		**3.7**	
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	NA		3.0	U	3.0	U	3.0	U	3.0	U	NA		3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	NA		10	U	10	U	10	U	10	U	NA		10	U
24	18	Naphthalene	**41**		**38**		**20**		**12**		NA		**23**		**22**		**20**		**13**		NA		**5.7**	
25	19	2-Methylnaphthalene	**14**		**13**		**8.9**		**5.7**		NA		**9.0**		**9.0**		**9.4**		**4.9**		NA		**3.9**	
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
31	25	Pentachlorophenol	**24000**		**20000**		**8000**		**5400**		NA		**11000**		**6800**	J2	**6500**	J2	**3600**		NA		**460**	J
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	**0.8**	J1	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U
33	27																							
34	28	**VOLATILES (µg/L)**																						
35	29	**EPA Method SW8260**																						
36	30	Acetone	**18**		**21**		5.0	U	**29**		NA		11	U	9.8	U	5.0	U	**11**		NA			R
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		2.0	U
38	32	2-Butanone	**6.1**		**6.3**		**27**		5.0	U	NA		**40**	M	5.0	U	5.0	U	5.0	U	NA		10	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		2.0	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		2.0	U
41	35	Toluene	**51**		**48**		**23**		**14**		NA		**17**		**37**		**36**		**15**		NA		**2.4**	
42	36	Ethylbenzene	**160**		**150**		**86**		**54**		NA		**75**		**110**		**110**		**69**		NA		**24**	
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		2.0	U
44	38	m,p-Xylene	**360**		**350**		**160**		**96**		NA		**140**		**220**		**210**		**120**		NA		**53**	
45	39	o-Xylene	**300**		**290**		**170**		**96**		NA		**130**		**240**		**210**		**120**		NA		**40**	
46	40	1,3,5-Trimethylbenzene	**100**		**92**		**68**		**43**		NA		**62**		**88**		**89**		**53**		NA		**48**	
47	41	1,2,4-Trimethylbenzene	**410**		**430**		**180**		**130**		NA		**200**		**370**		**320**		**180**		NA		**150**	
48	42	Isopropylbenzene	**50**	J2	**40**	J2	**27**		**18**		NA		**27**		**40**		**38**		**22**		NA		**13**	
49	43	n-Propylbenzene	**66**		**56**		**40**		**26**		NA		**42**		**53**		**52**		**32**		NA		**24**	
50	44	tert-Butylbenzene	**2.8**		**2.3**		1.0	U	1.0	U	NA		**1.9**	M	2.3	U	2.2	U	**1.5**	M	NA		2.0	U
51	45	sec-Butylbenzene	**15**		**13**		**10**		**9.1**		NA		**14**		**14**		**13**		**8.8**		NA		**7.5**	
52	46	4-Isopropyltoluene	**11**		**9.9**		1.0	U	1.0	U	NA		**10**		**9.8**		**9.4**		**5.9**		NA		**7.1**	
53	47	n-Butylbenzene	**12**		**10**		**8.0**		5.3	U	NA		**11**		10	U	9.9	U	**7.0**	M	NA		**8.4**	M
54	48	Naphthalene	**46**		**38**		**19**		**15**		NA		**25**		**45**		**44**		**22**		NA		10	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																							
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																						
58	51	**Method OR-DEQ**																						
59	52	**TPH-Diesel**	**14**		**13**		**10**		**8.8**		NA		**12**		**10**		**9.6**		**5.9**		NA		**2.2**	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		**1.1**		**0.50**		**0.77**		NA		NA		0.50	U
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		**11**		**24**		**20**		**14**		NA		**4.8**	
62	55																							
63	56	**PRIORITY POLLUTANT**																						
64	57	**METALS (mg/L)**																						
65	58	Arsenic (7060)	**0.007**		**0.008**		**0.006**		**0.007**		NA		**0.007**		**0.008**		**0.008**		**0.007**		NA		**0.007**	

BZTO104(e)022251

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
2												Dup of LW11S						Dup of LW11S							
3		LW11S		LW11S		LW11S		LW11S		LW11S		OX005S		LW11S		LW11S		X		LW11S		LW11S		LW11S	
4		DE68M		ED34D		EM66C		ES04D		EX87C		EX87A		EZ03I		FF76H		FF76L		FL58H		FU45D		FY72I	
5		6/4/01		2/28/02		6/24/02		08/28/02		10/29/02		10/29/02		11/12/02		2/12/03		2/12/03		5/8/03		8/28/03		10/22/03	
7	**CHLORINATED PHENOLS (µg/L)**																								
8	**EPA Method SW8040**																								
9	Pentachlorophenol	NA		NA		NA		NA		**3600**		**3700**		NA		NA		NA		NA		NA		NA	
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		**1.3**		**1.3**		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		**0.4**		**0.37**		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		0.58	U	0.6	U	NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		0.25	U	0.29	U	NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		**380**		**380**		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		**3.2**	J	**4.2**	J	NA		NA		NA		NA		NA		NA	
16																									
17	**SEMIVOLATILES (µg/L)**																								
18	**EPA Method SW8270**																								
19	Phenol	**2.6**		2.0	U	2.0	U	2.2	U	NA		NA		2.2	U	2	U	2	U	2	U	2.1	U	2	U
20	4-Methylphenol	**2.3**		**1.9**		**1.0**		1.1	U	NA		NA		1.1	U	**1.2**	M	**1.3**	M	**5.4**		1.1	U	1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.1	U	NA		NA		1.1	U	1	U	1	U	1	U	1.1	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.3	U	NA		NA		3.3	U	3.1	U	3.1	U	3	U	3.2	U	3	U
23	Benzoic Acid	10	U	50	U	50	U	54	U	NA		NA		56	U	51	U	51	U	50	U	53	U	10	U
24	Naphthalene	**3.1**		**5.3**		**6.7**		**4.9**		NA		NA		**4.7**		**4.9**		**5.1**		**10**		**5.6**		**3.2**	
25	2-Methylnaphthalene	**2.0**		**1.7**		**2.6**		**1.7**		NA		NA		**2.8**		**3.6**		**3.7**		**4.5**		**3.7**		**2.9**	
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.4	U	NA		NA		5.6	U	5.1	U	5.1	U	5	U	**8.3**	M	5.1	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.4	U	NA		NA		5.6	U	5.1	U	5.1	U	5	U	5.3	U	5.1	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.1	U	NA		NA		1.1	U	1	U	1	U	1	U	1.1	U	1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.1	U	NA		NA		1.1	U	1	U	1	U	1	U	1.1	U	1	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1.1	U	NA		NA		1.1	U	1	U	1	U	1	U	1.1	U	1	U
31	Pentachlorophenol	**560**		**4700**		**4000**		**2600**		NA		NA		**2200**		**1600**	J	**2000**	J	**3800**		**1700**		**900**	
32	bis(2-Ethylhexyl)phthalate	1.0	U	4.0	U	4.0	U	4.3	U	NA		NA		4.4	U	1	U	1	U	1	U	1.1	U	1	U
33																									
34	**VOLATILES (µg/L)**																								
35	**EPA Method SW8260**																								
36	Acetone	**17**		**28**		5.0	U	11	UJ	**99**	M	**110**		**46**	M	**18**	M	**22**	M	**23**	M	**10**	MJ	**7**	M
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
38	2-Butanone	5.0	U	**13**		5.0	U	**23**	J	**12**		**14**		**7.4**		5	U	5	U	5	U	**9.5**	M	**7.5**	M
39	Benzene	**1.7**		**6.6**		**12**		**9.1**		**2.9**		**2.6**		**2.7**		**11**	J	**14**	J	**18**		**5.4**		**2.1**	
40	Bromoform	1.0	U	1.0	U	1.0	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	**5.3**		**9.1**		**10**		**3.6**	J	**3**		**2.8**		**1.3**		**3.9**	J	**4.8**	J	**6.4**		**1.2**		1	U
42	Ethylbenzene	**33**		**36**		**56**		**44**		**56**		**55**		**25**		**34**		**39**		**75**		**29**		**14**	
43	Styrene	1.0	U	1.0	U	1.0	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	**57**		**71**		**100**		**69**	J	**67**		**67**		**26**		**52**		**62**		**120**		**48**	J	**20**	
45	o-Xylene	**50**		**77**		**94**		**68**	J	**88**		**83**		**37**		**48**		**55**		**130**		**50**		**23**	
46	1,3,5-Trimethylbenzene	**32**		**29**		**35**		**28**		**28**	J	**22**	J	**8.3**		**16**		**19**		**46**		**28**		**16**	
47	1,2,4-Trimethylbenzene	**120**		**140**		**150**		**120**		**160**		**150**		**84**		**95**		**110**		**210**		**120**	J	**73**	
48	Isopropylbenzene	**12**		**14**		**16**		**16**		**22**		**18**		**10**		**12**		**14**		**27**		**15**		**7.6**	
49	n-Propylbenzene	**21**		**20**		**24**		**24**		**31**		**27**		**15**		**20**		**23**		**37**		**20**		**13**	
50	tert-Butylbenzene	**1.3**	M	**1.4**		**2.8**	J	**1.8**		**2**		**1.8**		**1.3**	M	**1.5**	M	**1.6**	M	**2.4**		**1.6**		**1**	
51	sec-Butylbenzene	**7.3**		**6.9**		**7.4**		**5.8**		**10**		**9.3**		**5.6**		**7.4**		**7.8**		**11**		**7.9**		**4.7**	
52	4-Isopropyltoluene	**6.6**		**3.9**		**6.0**		**5.8**	J	**7**		**6.4**		**3.2**		**5.2**		**5.8**		**7.4**		**4.6**		**3.2**	
53	n-Butylbenzene	7.6	U	**4.1**		5.0	U	**6.8**	M	**7.6**	M	**7.2**	M	**3.8**	M	**6**	M	**6.6**	M	**8.2**		**5.2**		**3.7**	M
54	Naphthalene	**11**		**12**		**17**		**15**	J	**22**		**19**		**7.8**		**10**		**12**		**22**		**9.4**		5	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																									
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	**Method OR-DEQ**																								
59	**TPH-Diesel**	**1.7**		**7.4**		**8.0**		**7.9**		NA		NA		**4.7**		**4.5**		**4.4**		**8.6**		**4**		**2.3**	
60	**TPH-D Motor Oil**	0.50	U	0.50	U	0.50	U	0.5	U	NA		NA		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
61	**TPH-Gasoline**	**2.9**		8.9		**9.7**		**7.3**		NA		NA		**6.1**		**7.1**		**7.7**		**8.6**	J	**4.8**		**2.8**	
62																									
63	**PRIORITY POLLUTANT**																								
64	**METALS (mg/L)**																								
65	Arsenic (7060)	**0.007**		**0.006**		**0.006**		**0.006**		NA		NA		0.05	U	**0.004**		**0.004**		**0.005**		**0.005**		**0.006**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AW	AX	AY	AZ	BA	BB	BC	BD
1									
2									
3		LW11S		LW11S		LW11S		LW11S	
4		0402086-06		0406074-09		0408035-01		0411066-09	
5		2/18/04		6/10/04		8/05/04		11/11/04	
6									
7	**CHLORINATED PHENOLS (µg/L)**								
8	**EPA Method SW8040**								
9	Pentachlorophenol	NA		NA		NA		**184**	
10	2,4,6-Trichlorophenol	NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA	
16									
17	**SEMIVOLATILES (µg/L)**								
18	**EPA Method SW8270**								
19	Phenol	1.96	U	2.03	U	2	U	1.94	U
20	4-Methylphenol	9.8	U	10.2	U	10	U	9.72	U
21	Isophorone	0.98	U	1.02	U	1	U	0.972	U
22	2,4-Dimethylphenol	2.94	U	3.05	U	3	U	2.92	U
23	Benzoic Acid	19.6	U	20.3	U	20	U	19.4	U
24	Naphthalene	**9.22**		**3.55**		**7.81**		**2.24**	
25	2-Methylnaphthalene	**4.2**		**2.07**		**3.81**		**1.86**	
26	2,4,6-Trichlorophenol	4.9	U	5.09	U	5	U	4.86	U
27	2,4,5-Trichlorophenol	4.9	U	5.09	U	5	U	4.86	U
28	Acenaphthene	0.98	U	1.02	U	1	U	0.972	U
29	Dibenzofuran	0.98	U	1.02	U	1	U	0.972	U
30	Fluorene	0.98	U	1.02	U	1	U	0.972	U
31	Pentachlorophenol	**6350**		**2130**		**604**		NA	
32	bis(2-Ethylhexyl)phthalate	0.98	U	1.02	U	1	U	0.972	U
33									
34	**VOLATILES (µg/L)**								
35	**EPA Method SW8260**								
36	Acetone	50	UJ	50	U	**54**	J	50	U
37	Carbon Disulfide	2	UJ	2	U	2	U	2	U
38	2-Butanone	10	UJ	**11.6**		**13**	J	10	U
39	Benzene	**30.3**	J	**11.6**		**9.79**	J	**2.38**	
40	Bromoform	1	UJ	1	U	1	U	1	U
41	Toluene	1	UJ	1	U	1	U	1	U
42	Ethylbenzene	**71.6**	J	**38.6**		**83.1**	J	**21.4**	
43	Styrene	1	UJ	1	U	1	U	1	U
44	m,p-Xylene	**61.6**	J	**59**		**126**	J	**30.9**	
45	o-Xylene	**123**	J	**67.8**		**176**	J	**44.2**	
46	1,3,5-Trimethylbenzene	**34.8**	J	**27.7**		**56.7**	J	**21.6**	
47	1,2,4-Trimethylbenzene	**160**	J	**99.4**		**234**	J	**91.2**	
48	Isopropylbenzene	**15.9**	J	**12**		**28.2**	J	**11.1**	
49	n-Propylbenzene	**18.6**	J	**18.1**		**30.5**	J	**14.1**	
50	tert-Butylbenzene	1	UJ	**1.16**		**1.55**	J	**1.42**	
51	sec-Butylbenzene	**7.19**	J	**5.49**		**8.97**	J	**5.12**	
52	4-Isopropyltoluene	**4.32**	J	**3.19**		**6.91**	J	**4.26**	
53	n-Butylbenzene	**3.41**	J	**2.47**		**5.42**	J	**2.94**	
54	Naphthalene	**15.1**	J	**8.95**		**24.5**	J	**8.69**	
55	Methyl tert-butyl ether	NA		1	U	1	U	1	U
56									
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**								
58	**Method OR-DEQ**								
59	**TPH-Diesel**	**3.07**		NA		NA		NA	
60	**TPH-D Motor Oil**	**0.573**		NA		NA		NA	
61	**TPH-Gasoline**	**6.8**		NA		NA		NA	
62									
63	**PRIORITY POLLUTANT**								
64	**METALS (mg/L)**								
65	Arsenic (7060)	**0.004**		**0.005**		**0.00333**		**0.00394**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2					Dup of LW11S												Dup of LW11S							
3			LW11S		LW110S		LW11S		LW11S		LW11S		LW11S		LW11S		X		LW11S		LW11S		LW11S	
4			AH76E		AH76D		AU36F		BC27J		9912050-06A		BH96U		BR55L		BR55K		CB49J		CK77K		CT55H	
5			5/20/99		5/20/99		9/21/99		12/8/99		12/8/1999 (d)		2/17/00		5/23/00		5/23/00		8/28/00		11/8/00		2/14/01	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	NA		0.005	U	0.005	U	0.005	U	0.005	U	NA		0.005	U
67	60	Copper (6010)	**0.002**		**0.003**		0.002	U	0.002	U	NA		**0.005**		0.002	U	0.002	U	0.002	U	NA		0.002	U
68	61	Lead (7421)	0.001	U	0.001	U	0.001	U	0.001	U	NA		**0.002**		0.001	U	0.001	U	0.001	U	NA		0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	NA		0.01	U	0.01	U	0.01	U	0.01	U	NA		0.01	U
70	63	Zinc (6010)	**0.010**		**0.010**		0.004	U	0.006	U	NA		**0.011**		0.006	U	0.006	U	0.006	U	NA		0.006	U
71	64																							
72	65	**MAJOR IONS AND CONVENTIONALS**																						
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**20.3**	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**6.41**	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**1.6**	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**4.03**	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**140**	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1.0	U
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**140**	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**230**		**240**		**150**		**200**		NA		**160**		**160**		**170**		**220**		NA		**190**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.3**		**2.2**		**3.3**		**5.3**		NA		**5.2**		**5.8**	J2	**12**	J2	**6.5**		NA		**3.1**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.010	U
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.010	U
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.010	U
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**5.6**	
86	79																							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1																									
2												Dup of LW11S						Dup of LW11S							
3		LW11S		LW11S		LW11S		LW11S		LW11S		OX005S		LW11S		LW11S		X		LW11S		LW11S		LW11S	
4		DE68M		ED34D		EM66C		ES04D		EX87C		EX87A		EZ03I		FF76H		FF76L		FL58H		FU45D		FY72I	
5		6/4/01		2/28/02		6/24/02		08/28/02		10/29/02		10/29/02		11/12/02		2/12/03		2/12/03		5/8/03		8/28/03		10/22/03	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	NA		NA		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	0.002	U	**0.003**		0.002	U	0.002	U	NA		NA		0.002	U	0.002	UJ	**0.007**	J	**0.002**		**0.004**		**0.002**	
68	Lead (7421)	0.001	U	0.001	U	0.001	U	0.001	U	NA		NA		0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	NA		NA		**0.12**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	Zinc (6010)	0.006	U	0.006	U	0.006	U	0.006	U	NA		NA		**0.019**		**0.009**		**0.011**		0.006	U	0.006	U	0.006	U
71																									
72	**MAJOR IONS AND CONVENTIONALS**																								
73	Calcium (mg/L) (6010)	**28.6**		**59.0**		NA		NA		NA		NA		NA		**22.5**		**23.1**		NA		NA		NA	
74	Magnesium (mg/L) (6010)	**9.34**		**18.2**		NA		NA		NA		NA		NA		**7.52**		**7.8**		NA		NA		NA	
75	Potassium (mg/L) (6010)	**2.7**		**4.0**		NA		NA		NA		NA		NA		**2.9**		**3**		NA		NA		NA	
76	Sodium (mg/L) (6010)	**6.10**		**8.55**		NA		NA		NA		NA		NA		**12.5**		**12.9**		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		**230**		NA		NA		140		**140**		NA		**120**		**120**		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		1.0	U	NA		NA		1	U	1	U	NA		1	U	1	U	NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		**230**		NA		NA		140		**140**		NA		**120**		**120**		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**190**		**410**		**180**		**160**		NA		NA		**560**		**170**		**160**		**190**		**270**		**240**	
81	Chloride (mg/L) (EPA 325.2)	**3.2**		**58**		**2.7**		**3.8**		NA		NA		**4.7**		**3.1**		**3**		**4.9**		**3.3**		**4**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		0.010	U	NA		NA		NA		NA		NA		**0.042**	J	**0.031**	J	NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		**0.031**		NA		NA		NA		NA		NA		0.01	U	0.01	U	NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		**0.040**		NA		NA		NA		NA		NA		**0.042**	J	**0.031**	J	NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		**13**		NA		NA		NA		NA		NA		**24**		**26**		NA		NA		NA	
86																									

BZTO104(e)022255

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AW	AX	AY	AZ	BA	BB	BC	BD
1									
2									
3		LW11S		LW11S		LW11S		LW11S	
4		0402086-06		0406074-09		0408035-01		0411066-09	
5		2/18/04		6/10/04		8/05/04		11/11/04	
66	Chromium (6010)	**0.0069**		**0.0173**		**0.0161**		**0.0206**	
67	Copper (6010)	0.01	U	0.01	U	0.01	U	0.01	U
68	Lead (7421)	**0.0002**		0.0001	U	0.0001	U	**0.00104**	
69	Nickel (6010)	0.005	U	0.005	U	0.005	U	0.005	U
70	Zinc (6010)	0.01	U	0.01	U	0.01	U	0.01	U
71									
72	**MAJOR IONS AND CONVENTIONALS**								
73	Calcium (mg/L) (6010)	NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**274**		**389**		**356**		**366**	
81	Chloride (mg/L) (EPA 325.2)	**3.13**		**3.92**		**3.59**		**4.83**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA	
86									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2					Dup of LW11S												Dup of LW11S							
3			LW11S		LW110S		LW11S		LW11S		LW11S		LW11S		LW11S		X		LW11S		LW11S		LW11S	
4			AH76E		AH76D		AU36F		BC27J		9912050-06A		BH96U		BR55L		BR55K		CB49J		CK77K		CT55H	
5			5/20/99		5/20/99		9/21/99		12/8/99		12/8/1999 (d)		2/17/00		5/23/00		5/23/00		8/28/00		11/8/00		2/14/01	
87	80	**FIELD PARAMETERS**																						
88	81	pH (avg)	6.55		6.56		5.83		6.50		NM		6.52		6.52		6.53		6.27		NM		6.25	
89	82	Temperature (° C) (avg)	14.1		14.1		15.0		12.2		NM		15.0		14.0		14.0		15.1		NM		13.2	
90	83	Conductivity (um/hos)	285		286		226		323		NM		291		234		234		346		NM		296	
91	84	Dissolved oxygen (mg/L) (avg)	2.09		2.21		2.45		2.72		NM		0.11		2.02		2.02		1.37		NM		0.61	
92	85																							
93	86	**DIOXINS AND FURANS (ng/L)**																						
94	87	**Method 8290**																						
95	88	2,3,7,8-TCDF	NA		NA		0.0055	U	0.00130	U	NA		0.0025	U	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		**0.018**		**0.0011**	J1	NA		**0.0064**		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		0.0056	U	0.00130	U	NA		0.0044	U	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		0.0056	U	0.00130	U	NA		0.0044	U	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		0.0320	UE	0.00160	U	NA		0.11	U	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		0.0120	U	0.00130	U	NA		0.0026	U	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		0.0220	U	0.00140	U	NA		0.0034	U	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		0.0061	U	0.00160	U	NA		0.0044	U	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		0.0061	U	0.00160	U	NA		0.0044	U	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		0.0083	U	0.00120	U	NA		0.54	U	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		0.0079	U	0.018	U	NA		0.0036	U	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		0.0067	U	0.0032	U	NA		0.0038	U	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		0.0130	U	0.00140	U	NA		0.0058	U	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		**0.015**		0.0170	U	NA		**0.1600**		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		0.0076	U	0.00260	U	NA		0.0069	U	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		**0.015**		**0.0025**	J1	NA		**0.0230**	J1	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		0.0100	U	0.00130	U	NA		0.0078	U	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		**0.035**		**0.0068**	J1	NA		**0.0310**		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		**0.043**		**0.0071**	J1	NA		0.14	U	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		0.0094	U	0.00200	U	NA		0.0120	U	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		**0.043**		**0.0320**	J1	NA		**0.3800**		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		**0.270**		**0.0500**	J1	NA		**0.6900**		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		**0.410**		**0.0780**		NA		**1.1000**		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		0.220	U	**0.0280**	J1	NA		**0.5100**		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		**1.900**		**0.2800**		NA		**5.3000**		NA		NA		NA		NA		NA	
120																								
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		10	U	**11**		5.0	U	5.0	U	5.0	U	NA		5.0	U
122																								

BZTO104(e)022257

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1																									
2												Dup of LW11S						Dup of LW11S							
3		LW11S		LW11S		LW11S		LW11S		LW11S		OX005S		LW11S		LW11S		X		LW11S		LW11S		LW11S	
4		DE68M		ED34D		EM66C		ES04D		EX87C		EX87A		EZ03I		FF76H		FF76L		FL58H		FU45D		FY72I	
5		6/4/01		2/28/02		6/24/02		08/28/02		10/29/02		10/29/02		11/12/02		2/12/03		2/12/03		5/8/03		8/28/03		10/22/03	
87	**FIELD PARAMETERS**																								
88	pH (avg)	6.50		6.29		6.14		6.44		6.47		6.48		6.21		6.9		6.92		6.6		6.65		6.65	
89	Temperature (° C) (avg)	14.1		13.6		15.6		16.4		16.4		16.4		15.5		14.6		14.7		13.7		14.3		15.8	
90	Conductivity (um/hos)	270		460		205		218		554		554		528		323		324		248		356		300	
91	Dissolved oxygen (mg/L) (avg)	0.96		7.46		4.17		1.31		0		0		0		0		0		2.96		1.61		1.97	
92																									
93	**DIOXINS AND FURANS (ng/L)**																								
94	**Method 8290**																								
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**6.88**	J
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**7.91**	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		3.08	U
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		3.08	U
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**30.1**	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**23.8**	J
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**664**	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		5.19	U
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**144**	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**185**	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**101**	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**141**	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		11	U
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**6013**	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**31**	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**812**	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**111**	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**2769**	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**5015**	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**335**	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**23730**	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**34761**	J
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**53330**	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**25345**	J
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**276444**	J
120																									
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AW	AX	AY	AZ	BA	BB	BC	BD
1									
2									
3		LW11S		LW11S		LW11S		LW11S	
4		0402086-06		0406074-09		0408035-01		0411066-09	
5		2/18/04		6/10/04		8/05/04		11/11/04	
87	**FIELD PARAMETERS**								
88	pH (avg)	6.53		6.31		5.78		6.66	
89	Temperature (° C) (avg)	14.3		14.3		15.6		14.9	
90	Conductivity (um/hos)	341		418		585		428	
91	Dissolved oxygen (mg/L) (avg)	1.52		1.24		1.68		0.87	
92									
93	**DIOXINS AND FURANS (ng/L)**								
94	**Method 8290**								
95	2,3,7,8-TCDF	NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA	
120									
121	**ETHANOL (mg/L)**	NA		NA		NA		NA	
122									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2					Dup of LW11S												Dup of LW11S							
3			LW11S		LW110S		LW11S		LW11S		LW11S		LW11S		LW11S		X		LW11S		LW11S		LW11S	
4			AH76E		AH76D		AU36F		BC27J		9912050-06A		BH96U		BR55L		BR55K		CB49J		CK77K		CT55H	
5			5/20/99		5/20/99		9/21/99		12/8/99		12/8/1999 (d)		2/17/00		5/23/00		5/23/00		8/28/00		11/8/00		2/14/01	
123		**PAHs (µg/L)**																						
124		**EPA Method SW8270 SIM**																						
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1																									
2												Dup of LW11S						Dup of LW11S							
3		LW11S		LW11S		LW11S		LW11S		LW11S		OX005S		LW11S		LW11S		X		LW11S		LW11S		LW11S	
4		DE68M		ED34D		EM66C		ES04D		EX87C		EX87A		EZ03I		FF76H		FF76L		FL58H		FU45D		FY72I	
5		6/4/01		2/28/02		6/24/02		08/28/02		10/29/02		10/29/02		11/12/02		2/12/03		2/12/03		5/8/03		8/28/03		10/22/03	
123	**PAHs (µg/L)**																								
124	**EPA Method SW8270 SIM**																								
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AW	AX	AY	AZ	BA	BB	BC	BD
1									
2									
3		LW11S		LW11S		LW11S		LW11S	
4		0402086-06		0406074-09		0408035-01		0411066-09	
5		2/18/04		6/10/04		8/05/04		11/11/04	
123	**PAHs (µg/L)**								
124	**EPA Method SW8270 SIM**								
125	Naphthalene	NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		1	U	NA	
128	Acenaphthene	NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA	
130	Anthracene	NA		NA		1	U	NA	
131	Dibenzofuran	NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																												
2																												Dup of LW13S
3			LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		Y
4			BR64S		CB68A		CL03U		CT67O		DE87F		DM30R		DW29K		ED30F		EN00F		ER93H		EZ03N		FF65H		FF65J
5			5/25/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/12/02		2/11/03		2/11/03
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	**0.60**		**0.89**		**1.4**		**9.3**		**4.4**		**6.9**		0.25	U	0.26	U	0.25	U	0.26	U	**0.49**		0.25	U	0.25
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
20	14	4-Methylphenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
21	15	Isophorone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
22	16	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
23	17	Benzoic Acid	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
24	18	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
25	19	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
26	20	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
27	21	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
28	22	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
29	23	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
30	24	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
31	25	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
37	31	Carbon Disulfide	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
38	32	2-Butanone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
39	33	Benzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
40	34	Bromoform	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
41	35	Toluene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
42	36	Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
43	37	Styrene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
44	38	m,p-Xylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
45	39	o-Xylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
46	40	1,3,5-Trimethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
47	41	1,2,4-Trimethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
48	42	Isopropylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
49	43	n-Propylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
50	44	tert-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
51	45	sec-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
52	46	4-Isopropyltoluene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
53	47	n-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
54	48	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	51	**Method OR-DEQ**																										
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																											
63	56	**PRIORITY POLLUTANT**																										
64	57	**METALS (mg/L)**																										
65	58	Arsenic (7060)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

BZTO104(e)022263

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN
3			LW13S		LW13S		LW13S		LW13S		LW13S		LW13S	
4			FL58C		FU45M		FY82E		0402113-06		0408036-07		0411066-16	
5			5/8/03		8/28/03		10/23/03		2/23/04		8/05/04		11/11/04	
7	**CHLORINATED PHENOLS (µg/L)**													
8	**EPA Method SW8040**													
9	Pentachlorophenol	U	0.25	U	**1.1**	J	**1.0**		0.482	U	0.5	U	4.81	U
10	2,4,6-Trichlorophenol		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol		NA		NA		NA		NA		NA		NA	
16														
17	**SEMIVOLATILES (µg/L)**													
18	**EPA Method SW8270**													
19	Phenol		NA		NA		NA		NA		NA		1.92	U
20	4-Methylphenol		NA		NA		NA		NA		NA		9.62	U
21	Isophorone		NA		NA		NA		NA		NA		0.962	U
22	2,4-Dimethylphenol		NA		NA		NA		NA		NA		2.89	U
23	Benzoic Acid		NA		NA		NA		NA		NA		19.2	U
24	Naphthalene		NA		NA		NA		NA		NA		0.962	U
25	2-Methylnaphthalene		NA		NA		NA		NA		NA		0.962	U
26	2,4,6-Trichlorophenol		NA		NA		NA		NA		NA		4.81	U
27	2,4,5-Trichlorophenol		NA		NA		NA		NA		NA		4.81	U
28	Acenaphthene		NA		NA		NA		NA		NA		0.962	U
29	Dibenzofuran		NA		NA		NA		NA		NA		0.962	U
30	Fluorene		NA		NA		NA		NA		NA		0.962	U
31	Pentachlorophenol		NA		NA		NA		NA		NA		NA	
32	bis(2-Ethylhexyl)phthalate		NA		NA		NA		NA		NA		0.962	U
33														
34	**VOLATILES (µg/L)**													
35	**EPA Method SW8260**													
36	Acetone		NA		NA		NA		NA		NA		50	U
37	Carbon Disulfide		NA		NA		NA		NA		NA		2	U
38	2-Butanone		NA		NA		NA		NA		NA		10	U
39	Benzene		NA		NA		NA		NA		NA		0.3	U
40	Bromoform		NA		NA		NA		NA		NA		1	U
41	Toluene		NA		NA		NA		NA		NA		1	U
42	Ethylbenzene		NA		NA		NA		NA		NA		1	U
43	Styrene		NA		NA		NA		NA		NA		1	U
44	m,p-Xylene		NA		NA		NA		NA		NA		2	U
45	o-Xylene		NA		NA		NA		NA		NA		1	U
46	1,3,5-Trimethylbenzene		NA		NA		NA		NA		NA		1	U
47	1,2,4-Trimethylbenzene		NA		NA		NA		NA		NA		1	U
48	Isopropylbenzene		NA		NA		NA		NA		NA		1	U
49	n-Propylbenzene		NA		NA		NA		NA		NA		1	U
50	tert-Butylbenzene		NA		NA		NA		NA		NA		1	U
51	sec-Butylbenzene		NA		NA		NA		NA		NA		1	U
52	4-Isopropyltoluene		NA		NA		NA		NA		NA		1	U
53	n-Butylbenzene		NA		NA		NA		NA		NA		1	U
54	Naphthalene		NA		NA		NA		NA		NA		1	U
55	Methyl tert-butyl ether		NA		NA		NA		NA		NA		1	U
56														
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**													
58	**Method OR-DEQ**													
59	**TPH-Diesel**		NA		NA		NA		NA		NA		0.244	U
60	**TPH-D Motor Oil**		NA		NA		NA		NA		NA		0.489	U
61	**TPH-Gasoline**		NA		NA		NA		NA		NA		NA	
62														
63	**PRIORITY POLLUTANT**													
64	**METALS (mg/L)**													
65	Arsenic (7060)		NA		NA		NA		NA		NA		0.001	U

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2																											Dup of LW13S
3			LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		Y
4			BR64S		CB68A		CL03U		CT67O		DE87F		DM30R		DW29K		ED30F		EN00F		ER93H		EZ03N		FF65H		FF65J
5			5/25/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/12/02		2/11/03		2/11/03
66	59	Chromium (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
67	60	Copper (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
68	61	Lead (7421)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
69	62	Nickel (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
70	63	Zinc (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
71	64																										
72	65	**MAJOR IONS AND CONVENTIONALS**																									
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
86	79																										

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN
1														
2														
3			LW13S		LW13S		LW13S		LW13S		LW13S		LW13S	
4			FL58C		FU45M		FY82E		0402113-06		0408036-07		0411066-16	
5			5/8/03		8/28/03		10/23/03		2/23/04		8/05/04		11/11/04	
66	Chromium (6010)		NA		NA		NA		NA		NA		**0.0235**	
67	Copper (6010)		NA		NA		NA		NA		NA		**0.0609**	
68	Lead (7421)		NA		NA		NA		NA		NA		**0.00029**	
69	Nickel (6010)		NA		NA		NA		NA		NA		**0.0853**	
70	Zinc (6010)		NA		NA		NA		NA		NA		0.01	U
71														
72	**MAJOR IONS AND CONVENTIONALS**													
73	Calcium (mg/L) (6010)		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		NA		NA		NA		NA		NA		**229**	
81	Chloride (mg/L) (EPA 325.2)		NA		NA		NA		NA		NA		**10.6**	
82	N-Nitrate (mg-N/L) (Calculated)		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)		NA		NA		NA		NA		NA		NA	
86														

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2																											Dup of LW13S
3			LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		Y
4			BR64S		CB68A		CL03U		CT67O		DE87F		DM30R		DW29K		ED30F		EN00F		ER93H		EZ03N		FF65H		FF65J
5			5/25/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/12/02		2/11/03		2/11/03
87	80	**FIELD PARAMETERS**																									
88	81	pH (avg)	6.22		5.57		5.62		6.34		6.54		6.82		6.56		6.35		6.43		6.32		6.43		6.77		6.76
89	82	Temperature (° C) (avg)	12.0		13.5		10.7		12.2		12.8		15.2		13.8		11.2		12.7		14.1		14.1		12.8		12.8
90	83	Conductivity (um/hos)	128		149		272		149		336		383		214		89		180		146		141		71		71
91	84	Dissolved oxygen (mg/L) (avg)	5.81		3.67		1.47		0.94		2.62		1.49		5.86		9.57		7.00		2.31		2.27		0		0
92	85																										
93	86	**DIOXINS AND FURANS (ng/L)**																									
94	87	**Method 8290**																									
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																											
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
122																											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN
1														
2														
3			LW13S		LW13S		LW13S		LW13S		LW13S		LW13S	
4			FL58C		FU45M		FY82E		0402113-06		0408036-07		0411066-16	
5			5/8/03		8/28/03		10/23/03		2/23/04		8/05/04		11/11/04	
87	**FIELD PARAMETERS**													
88	pH (avg)		6.36		6.67		6.38		6.23		5.86		6.51	
89	Temperature (° C) (avg)		11.9		15.6		14.7		13.2		14.2		15.4	
90	Conductivity (um/hos)		81		131		119		70		267		192	
91	Dissolved oxygen (mg/L) (avg)		6.14		3.68		5.65		4.4		4.6		2.85	
92														
93	**DIOXINS AND FURANS (ng/L)**													
94	**Method 8290**													
95	2,3,7,8-TCDF		NA		NA		NA		NA		NA		NA	
96	Total TCDF		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD		NA		NA		NA		NA		NA		NA	
98	Total TCDD		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA		NA		NA		NA		NA	
101	Total PeCDF		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA		NA		NA		NA		NA	
103	Total PeCDD		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA		NA		NA		NA		NA	
108	Total HxCDF		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA		NA		NA		NA		NA	
112	Total HxCDD		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA		NA		NA		NA		NA	
115	Total HpCDF		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA		NA		NA		NA	
117	Total HpCDD		NA		NA		NA		NA		NA		NA	
118	OCDF		NA		NA		NA		NA		NA		NA	
119	OCDD		NA		NA		NA		NA		NA		NA	
120														
121	**ETHANOL (mg/L)**		NA		NA		NA		NA		NA		NA	
122														

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2																											Dup of LW13S
3			LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		LW13S		Y
4			BR64S		CB68A		CL03U		CT67O		DE87F		DM30R		DW29K		ED30F		EN00F		ER93H		EZ03N		FF65H		FF65J
5			5/25/00		8/30/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/12/02		2/11/03		2/11/03
123		**PAHs (µg/L)**																									
124		**EPA Method SW8270 SIM**																									
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN
1														
2														
3			LW13S		LW13S		LW13S		LW13S		LW13S		LW13S	
4			FL58C		FU45M		FY82E		0402113-06		0408036-07		0411066-16	
5			5/8/03		8/28/03		10/23/03		2/23/04		8/05/04		11/11/04	
123	**PAHs (µg/L)**													
124	**EPA Method SW8270 SIM**													
125	Naphthalene		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene		NA		NA		NA		NA		NA		NA	
128	Acenaphthene		NA		NA		NA		NA		NA		NA	
129	Fluorene		NA		NA		NA		NA		NA		NA	
130	Anthracene		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW19S		LW19S		LW19S		LW19S		LW19S	
4			FZ04O		0402115-04		0406050-12		0408056-08		0411059-01	
5			10/28/03		2/24/04		6/8/04		8/09/04		11/10/04	
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		4.88	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2	U	2	U	2.03	U	2.03	U	1.95	U
20	14	4-Methylphenol	1	U	10	U	10.2	U	10.1	U	9.77	U
21	15	Isophorone	1	U	1	U	1.02	U	1.01	U	0.977	U
22	16	2,4-Dimethylphenol	3	U	3	U	3.05	U	3.04	U	2.93	U
23	17	Benzoic Acid	10	U	20	U	20.3	U	20.3	U	19.5	U
24	18	Naphthalene	1	U	1	U	1.02	U	1.01	U	0.977	U
25	19	2-Methylnaphthalene	1	U	1	U	1.02	U	1.01	U	0.977	U
26	20	2,4,6-Trichlorophenol	5	U	5	U	5.08	U	5.07	U	4.88	U
27	21	2,4,5-Trichlorophenol	5	U	5	U	5.08	U	5.07	U	4.88	U
28	22	Acenaphthene	**1.1**		**1.18**		1.02	U	**1.09**		**1.04**	
29	23	Dibenzofuran	**1.5**		**1.02**		**1.08**		1.01	U	**1.33**	
30	24	Fluorene	**3.5**		**2.82**		**3.04**		**3.46**		**3.41**	
31	25	Pentachlorophenol	5	U	5	U	5.08	U	5.07	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	1	U	1	U	1.02	U	1.01	U	0.977	U
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	**5.1**	M	50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U
39	33	Benzene	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	**1.23**	
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	**6.5**		**6.65**		**7.29**		**7.65**		**5.89**	
49	43	n-Propylbenzene	**8.9**		**9.37**		**12.3**		**9.41**		**9.38**	
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	**4.7**		**4.92**		**5.87**		**4.62**		**3.65**	
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	**2.9**	M	**2.78**		**3.17**		**2**		**3**	
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U
55	48.5	Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**4.4**		**7.53**		**7.12**		**6.15**		**5.32**	
60	53	**TPH-D Motor Oil**	0.5	U	**1.07**		0.516	U	0.5	U	**1.66**	
61	54	**TPH-Gasoline**	**1.1**		**1.3**		**1.28**		**0.786**		**1.30**	
62	55											
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.046**		**0.040**		**0.039**		**0.0406**		**0.0406**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW19S		LW19S		LW19S		LW19S		LW19S	
4			FZ04O		0402115-04		0406050-12		0408056-08		0411059-01	
5			10/28/03		2/24/04		6/8/04		8/09/04		11/10/04	
66	59	Chromium (6010)	0.005	U	**0.0095**		0.005	U	**0.0158**		**0.0149**	
67	60	Copper (6010)	0.002	U	0.01	U	0.01	U	**0.159**		0.01	U
68	61	Lead (7421)	**0.001**		**0.0005**		0.0001	U	**0.000177**		**0.00045**	
69	62	Nickel (6010)	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	0.006	U	0.01	U	0.01	U	0.01	U	0.01	U
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**140**		**256**		**148**		**152**		**191**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.1**		**2.18**		**1.19**		0.5	U	0.5	U
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW19S		LW19S		LW19S		LW19S		LW19S	
4			FZ04O		0402115-04		0406050-12		0408056-08		0411059-01	
5			10/28/03		2/24/04		6/8/04		8/09/04		11/10/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.65		6.63		6.64		6.01		6.86	
89	82	Temperature (° C) (avg)	14.4		12.8		15		14.7		14	
90	83	Conductivity (um/hos)	506		492		452		781		582	
91	84	Dissolved oxygen (mg/L) (avg)	1.72		1.26		1.05		2.69		1.79	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA	
122												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW19S		LW19S		LW19S		LW19S		LW19S	
4			FZ04O		0402115-04		0406050-12		0408056-08		0411059-01	
5			10/28/03		2/24/04		6/8/04		8/09/04		11/10/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.1	U	**0.369**		**0.76**		**0.14**		**0.515**	
126		2-Methylnaphthalene	0.1	U	NA		NA		NA		NA	
127		Acenaphthylene	0.1	U	**0.159**		**0.3**		1.01	U	**0.283**	
128		Acenaphthene	0.84		**0.857**		**1.19**		**0.678**		**0.989**	
129		Fluorene	2.5		**2.35**		**3.88**		**1.59**		**3.29**	
130		Anthracene	0.1	U	0.0498	U	**0.18**		**0.0997**		**0.0807**	
131		Dibenzofuran	0.77		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2							Dup of LW20S						Dup of LW20S			
3			LW20S		LW20S		X		LW20S		LW20S		X		LW20S	
4			FZ04M		0402115-02		0402115-01		0406050-11		0408056-09		0408056-01		0411059-02	
5			10/28/03		2/24/04		2/24/04		6/8/04		8/09/04		8/09/04		11/10/04	
7	1	**CHLORINATED PHENOLS (µg/L)**														
8	2	**EPA Method SW8040**														
9	3	Pentachlorophenol	NA		NA		NA		NA		NA		NA		4.88	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA	
16	10															
17	11	**SEMIVOLATILES (µg/L)**														
18	12	**EPA Method SW8270**														
19	13	Phenol	2.2	U	2.02	U	2.1	U	1.98	U	2.07	U	2.08	U	1.95	U
20	14	4-Methylphenol	1.1	U	10.1	U	10.5	U	9.92	U	10.3	U	10.4	U	9.76	U
21	15	Isophorone	1.1	U	1.01	U	1.05	U	0.992	U	1.03	U	1.04	U	0.976	U
22	16	2,4-Dimethylphenol	3.3	U	3.03	U	3.15	U	2.98	U	3.1	U	3.12	U	2.93	U
23	17	Benzoic Acid	11	U	20.2	U	21	U	19.8	U	20.7	U	20.8	U	19.5	U
24	18	Naphthalene	1.1	U	1.01	U	1.05	U	0.992	U	1.03	U	1.04	U	0.976	U
25	19	2-Methylnaphthalene	1.1	U	1.01	U	1.05	U	0.992	U	1.03	U	1.04	U	0.976	U
26	20	2,4,6-Trichlorophenol	5.6	U	5.05	U	5.25	U	4.96	U	5.17	U	5.19	U	4.88	U
27	21	2,4,5-Trichlorophenol	5.6	U	5.05	U	5.25	U	4.96	U	5.17	U	5.19	U	4.88	U
28	22	Acenaphthene	**1.4**		**1.25**		1.05	U	**1.32**		**1.5**		**1.43**		**1.35**	
29	23	Dibenzofuran	1.1	U	**1.43**		**1.49**		**1.24**		1.03	U	1.04	U	**1.17**	
30	24	Fluorene	**3.8**		**3.7**		**3.53**		**3.64**		**3.86**		**3.63**		**3.24**	
31	25	Pentachlorophenol	5.6	U	5.05	U	5.25	U	4.96	U	5.17	U	5.19	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	1.1	U	1.01	U	1.05	U	0.992	U	1.03	U	1.04	U	0.976	U
33	27															
34	28	**VOLATILES (µg/L)**														
35	29	**EPA Method SW8260**														
36	30	Acetone	5	U	50	UJ	50	U	50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	UJ	2	U	2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	UJ	10	U	10	U	10	U	10	U	10	U
39	33	Benzene	1	U	**0.95**	J	**0.85**	J	0.3	U	0.3	U	0.3	U	**0.38**	
40	34	Bromoform	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	2	UJ	2	U	2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	UJ	1	U	1	U	1	U	1	U	**1.3**	
46	40	1,3,5-Trimethylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	**7**		**7.89**	J	**5.82**	J	**7.53**		**8.52**	J	**6.79**	J	**7.75**	
49	43	n-Propylbenzene	**9.2**		**10.8**	J	**9.94**		**13.5**		**10.6**		**10.5**		**11.3**	
50	44	tert-Butylbenzene	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	**5.1**		**6.27**	J	**5.19**		**6.65**		**5.55**	J	**4.41**	J	**5.26**	
52	46	4-Isopropyltoluene	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	**2.2**		**3.43**	J	**2.78**		**3.12**		**2.17**		**1.76**		**3.24**	
54	48	Naphthalene	5	U	1	UJ	1	U	1	U	1	U	1	U	1	U
55	48.5	Methyl tert-butyl ether	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U
56	49															
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**														
58	51	**Method OR-DEQ**														
59	52	**TPH-Diesel**	**5.4**		**6.77**		**6.29**		**10.7**		**9.21**		**8.43**		**6.45**	
60	53	**TPH-D Motor Oil**	0.5	U	**1.06**		**0.998**		0.498	U	0.511	U	0.528	U	**2.37**	
61	54	**TPH-Gasoline**	**0.96**		**1.4**		**1.2**		**0.981**		**0.783**		**0.676**		**1.21**	
62	55															
63	56	**PRIORITY POLLUTANT**														
64	57	**METALS (mg/L)**														
65	58	Arsenic (7060)	**0.04**		**0.020**		**0.019**		**0.029**		**0.0317**		**0.031**		**0.0336**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2							Dup of LW20S						Dup of LW20S			
3			LW20S		LW20S		X		LW20S		LW20S		X		LW20S	
4			FZ04M		0402115-02		0402115-01		0406050-11		0408056-09		0408056-01		0411059-02	
5			10/28/03		2/24/04		2/24/04		6/8/04		8/09/04		8/09/04		11/10/04	
66	59	Chromium (6010)	0.005	U	**0.013**		**0.0123**	J	**0.0133**		**0.014**		**0.0176**		0.005	U
67	60	Copper (6010)	0.002	U	0.01	U	0.01	U	0.01	U	**0.605**	J	0.01	UJ	0.01	U
68	61	Lead (7421)	0.001	U	**0.0005**	J	**0.0007**	J	**0.0001**		0.0001	U	0.0001	U	**0.00042**	
69	62	Nickel (6010)	0.01	U	0.005	U	**0.016**		0.005	U	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	**0.01**		0.01	U	0.01	U	0.01	U	0.01	U	**0.0211**		0.01	U
71	64															
72	65	**MAJOR IONS AND CONVENTIONALS**														
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**270**		**240**		**237**		**281**		**242**		**247**		**287**	
81	74	Chloride (mg/L) (EPA 325.2)	**2**		**1.45**		**1.79**		**1.91**		0.5	U	0.5	U	0.5	U
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA	
86	79															

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2							Dup of LW20S						Dup of LW20S			
3			LW20S		LW20S		X		LW20S		LW20S		X		LW20S	
4			FZ04M		0402115-02		0402115-01		0406050-11		0408056-09		0408056-01		0411059-02	
5			10/28/03		2/24/04		2/24/04		6/8/04		8/09/04		8/09/04		11/10/04	
87	80	**FIELD PARAMETERS**														
88	81	pH (avg)	6.33		6.12		6.12		6.56		5.94		5.94		6.52	
89	82	Temperature (° C) (avg)	16.5		11.6		11.7		14.5		16.9		16.4		16.1	
90	83	Conductivity (um/hos)	445		314		314		445		717		718		385	
91	84	Dissolved oxygen (mg/L) (avg)	1.79		1.82		1.79		1.94		1.51		2.13		1.4	
92	85															
93	86	**DIOXINS AND FURANS (ng/L)**														
94	87	**Method 8290**														
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA	
120																
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA	
122																

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2							Dup of LW20S						Dup of LW20S			
3			LW20S		LW20S		X		LW20S		LW20S		X		LW20S	
4			FZ04M		0402115-02		0402115-01		0406050-11		0408056-09		0408056-01		0411059-02	
5			10/28/03		2/24/04		2/24/04		6/8/04		8/09/04		8/09/04		11/10/04	
123		**PAHs (µg/L)**														
124		**EPA Method SW8270 SIM**														
125		Naphthalene	0.11	U	**0.429**		**0.518**		**0.85**		**0.39**		**0.392**		**0.554**	
126		2-Methylnaphthalene	0.11	U	NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	0.11	U	**0.256**		**0.352**		**0.39**		**0.107**	J	**0.245**	J	**0.301**	
128		Acenaphthene	1.3		**0.91**	J	**1.19**	J	**1.41**		**0.956**	J	**1.21**	J	**1.14**	
129		Fluorene	3.3		**2.55**	J	**3.52**	J	**3.92**		**2.14**	J	**2.75**	J	**3.46**	
130		Anthracene	0.14		**0.0716**		**0.0932**		**0.17**		**0.127**		**0.0979**		**0.0875**	
131		Dibenzofuran	0.59		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW21S	
4			FZ04Q	
5			10/28/03	
7	1	**CHLORINATED PHENOLS (µg/L)**		
8	2	**EPA Method SW8040**		
9	3	Pentachlorophenol	NA	
10	4	2,4,6-Trichlorophenol	NA	
11	5	2,3,6-Trichlorophenol	NA	
12	6	2,4,5-Trichlorophenol	NA	
13	7	2,3,4-Trichlorophenol	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	9	2,3,4,5-Tetrachlorophenol	NA	
16	10			
17	11	**SEMIVOLATILES (µg/L)**		
18	12	**EPA Method SW8270**		
19	13	Phenol	**11**	
20	14	4-Methylphenol	1.2	U
21	15	Isophorone	1.2	U
22	16	2,4-Dimethylphenol	**5.4**	
23	17	Benzoic Acid	12	U
24	18	Naphthalene	**100**	
25	19	2-Methylnaphthalene	**46**	
26	20	2,4,6-Trichlorophenol	6	U
27	21	2,4,5-Trichlorophenol	6	U
28	22	Acenaphthene	1.2	U
29	23	Dibenzofuran	1.2	U
30	24	Fluorene	**1.9**	
31	25	Pentachlorophenol	6	U
32	26	bis(2-Ethylhexyl)phthalate	1.2	U
33	27			
34	28	**VOLATILES (µg/L)**		
35	29	**EPA Method SW8260**		
36	30	Acetone	5	U
37	31	Carbon Disulfide	1	U
38	32	2-Butanone	5	U
39	33	Benzene	**1600**	
40	34	Bromoform	1	U
41	35	Toluene	**72**	
42	36	Ethylbenzene	**940**	
43	37	Styrene	1	U
44	38	m,p-Xylene	**2400**	
45	39	o-Xylene	**770**	
46	40	1,3,5-Trimethylbenzene	**120**	
47	41	1,2,4-Trimethylbenzene	**540**	
48	42	Isopropylbenzene	**72**	
49	43	n-Propylbenzene	**110**	
50	44	tert-Butylbenzene	1	U
51	45	sec-Butylbenzene	1	U
52	46	4-Isopropyltoluene	1	U
53	47	n-Butylbenzene	**8**	
54	48	Naphthalene	**190**	
55	48.5	Methyl tert-butyl ether	**7.5**	M
56	49			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	51	**Method OR-DEQ**		
59	52	**TPH-Diesel**	**4.3**	
60	53	**TPH-D Motor Oil**	0.5	U
61	54	**TPH-Gasoline**	**24**	
62	55			
63	56	**PRIORITY POLLUTANT**		
64	57	**METALS (mg/L)**		
65	58	Arsenic (7060)	**0.025**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW21S	
4			FZ04Q	
5			10/28/03	
66	59	Chromium (6010)	0.005	U
67	60	Copper (6010)	**0.005**	
68	61	Lead (7421)	**0.005**	
69	62	Nickel (6010)	0.01	U
70	63	Zinc (6010)	**0.012**	
71	64			
72	65	**MAJOR IONS AND CONVENTIONALS**		
73	66	Calcium (mg/L) (6010)	NA	
74	67	Magnesium (mg/L) (6010)	NA	
75	68	Potassium (mg/L) (6010)	NA	
76	69	Sodium (mg/L) (6010)	NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**240**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.7**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA	
86	79			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW21S	
4			FZ04Q	
5			10/28/03	
87	80	**FIELD PARAMETERS**		
88	81	pH (avg)	6.54	
89	82	Temperature (° C) (avg)	16.4	
90	83	Conductivity (um/hos)	373	
91	84	Dissolved oxygen (mg/L) (avg)	1.25	
92	85			
93	86	**DIOXINS AND FURANS (ng/L)**		
94	87	**Method 8290**		
95	88	2,3,7,8-TCDF	NA	
96	89	Total TCDF	NA	
97	90	2,3,7,8-TCDD	NA	
98	91	Total TCDD	NA	
99	92	1,2,3,7,8-PeCDF	NA	
100	93	2,3,4,7,8-PeCDF	NA	
101	94	Total PeCDF	NA	
102	95	1,2,3,7,8-PeCDD	NA	
103	96	Total PeCDD	NA	
104	97	1,2,3,4,7,8-HxCDF	NA	
105	98	1,2,3,6,7,8-HxCDF	NA	
106	99	2,3,4,6,7,8-HxCDF	NA	
107	100	1,2,3,7,8,9-HxCDF	NA	
108	101	Total HxCDF	NA	
109	102	1,2,3,4,7,8-HxCDD	NA	
110	103	1,2,3,6,7,8-HxCDD	NA	
111	104	1,2,3,7,8,9-HxCDD	NA	
112	105	Total HxCDD	NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	
115	108	Total HpCDF	NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	
117	110	Total HpCDD	NA	
118	111	OCDF	NA	
119	112	OCDD	NA	
120				
121		**ETHANOL (mg/L)**	NA	
122				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW21S	
4			FZ04Q	
5			10/28/03	
123		**PAHs (µg/L)**		
124		**EPA Method SW8270 SIM**		
125		Naphthalene	100	
126		2-Methylnaphthalene	46	
127		Acenaphthylene	0.12	U
128		Acenaphthene	0.8	
129		Fluorene	2.1	
130		Anthracene	0.12	U
131		Dibenzofuran	0.57	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW27S		LW27S	
4			FZ04R		0406072-01	
5			10/28/03		6/10/04	
7	1	**CHLORINATED PHENOLS (µg/L)**				
8	2	**EPA Method SW8040**				
9	3	Pentachlorophenol	NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA	
16	10					
17	11	**SEMIVOLATILES (µg/L)**				
18	12	**EPA Method SW8270**				
19	13	Phenol	2.4	U	1.93	U
20	14	4-Methylphenol	1.2	U	9.66	U
21	15	Isophorone	1.2	U	0.966	U
22	16	2,4-Dimethylphenol	3.7	U	2.9	U
23	17	Benzoic Acid	12	U	19.3	U
24	18	Naphthalene	1.2	U	0.966	U
25	19	2-Methylnaphthalene	1.2	U	0.966	U
26	20	2,4,6-Trichlorophenol	6.1	U	4.83	U
27	21	2,4,5-Trichlorophenol	6.1	U	4.83	U
28	22	Acenaphthene	**1.2**		**1.25**	
29	23	Dibenzofuran	1.2	U	0.966	U
30	24	Fluorene	**2.3**		**2.68**	
31	25	Pentachlorophenol	6.1	U	4.83	U
32	26	bis(2-Ethylhexyl)phthalate	1.2	U	0.966	U
33	27					
34	28	**VOLATILES (µg/L)**				
35	29	**EPA Method SW8260**				
36	30	Acetone	**6**		50	U
37	31	Carbon Disulfide	1	U	2	U
38	32	2-Butanone	5	U	10	U
39	33	Benzene	1	U	0.3	U
40	34	Bromoform	1	U	1	U
41	35	Toluene	1	U	1	U
42	36	Ethylbenzene	1	U	1	U
43	37	Styrene	1	U	1	U
44	38	m,p-Xylene	1	U	2	U
45	39	o-Xylene	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U
48	42	Isopropylbenzene	**12**		**6.97**	
49	43	n-Propylbenzene	**13**		**9.41**	
50	44	tert-Butylbenzene	1	U	1	U
51	45	sec-Butylbenzene	**4**		**2.24**	
52	46	4-Isopropyltoluene	1	U	1	U
53	47	n-Butylbenzene	**3.3**		**2.24**	
54	48	Naphthalene	5	U	1	U
55	48.5	Methyl tert-butyl ether	1	U	1	U
56	49					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**				
58	51	**Method OR-DEQ**				
59	52	**TPH-Diesel**	**4.4**		**6.95**	
60	53	**TPH-D Motor Oil**	0.5	U	0.498	U
61	54	**TPH-Gasoline**	**1.6**		**1.66**	
62	55					
63	56	**PRIORITY POLLUTANT**				
64	57	**METALS (mg/L)**				
65	58	Arsenic (7060)	**0.038**		**0.024**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW27S		LW27S	
4			FZ04R		0406072-01	
5			10/28/03		6/10/04	
66	59	Chromium (6010)	0.005	U	**0.0144**	
67	60	Copper (6010)	**0.002**		0.01	U
68	61	Lead (7421)	**0.002**		0.0001	U
69	62	Nickel (6010)	0.01	U	0.005	U
70	63	Zinc (6010)	**0.008**		0.01	U
71	64					
72	65	**MAJOR IONS AND CONVENTIONALS**				
73	66	Calcium (mg/L) (6010)	NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**270**		**311**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.9**		**1.9**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA	
86	79					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW27S		LW27S	
4			FZ04R		0406072-01	
5			10/28/03		6/10/04	
87	80	**FIELD PARAMETERS**				
88	81	pH (avg)	6.62		6.33	
89	82	Temperature (° C) (avg)	14.9		12.8	
90	83	Conductivity (um/hos)	400		413	
91	84	Dissolved oxygen (mg/L) (avg)	1.53		0.81	
92	85					
93	86	**DIOXINS AND FURANS (ng/L)**				
94	87	**Method 8290**				
95	88	2,3,7,8-TCDF	NA		NA	
96	89	Total TCDF	NA		NA	
97	90	2,3,7,8-TCDD	NA		NA	
98	91	Total TCDD	NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA	
101	94	Total PeCDF	NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA	
103	96	Total PeCDD	NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA	
108	101	Total HxCDF	NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA	
112	105	Total HxCDD	NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA	
115	108	Total HpCDF	NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA	
117	110	Total HpCDD	NA		NA	
118	111	OCDF	NA		NA	
119	112	OCDD	NA		NA	
120						
121		**ETHANOL (mg/L)**	NA		NA	
122						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW27S		LW27S	
4			FZ04R		0406072-01	
5			10/28/03		6/10/04	
123		**PAHs (µg/L)**				
124		**EPA Method SW8270 SIM**				
125		Naphthalene	0.12	U	**1.28**	
126		2-Methylnaphthalene	0.12	U	NA	
127		Acenaphthylene	0.12	U	**0.21**	
128		Acenaphthene	1.1		**1.24**	
129		Fluorene	2.3		**2.89**	
130		Anthracene	0.16		**0.06**	
131		Dibenzofuran	0.71		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW28S		LW28S	
4			0402080-02		0406040-01	
5			2/17/04		6/7/04	
7	1	**CHLORINATED PHENOLS (µg/L)**				
8	2	**EPA Method SW8040**				
9	3	Pentachlorophenol	NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA	
16	10					
17	11	**SEMIVOLATILES (µg/L)**				
18	12	**EPA Method SW8270**				
19	13	Phenol	1.92	U	1.94	U
20	14	4-Methylphenol	9.62	U	9.71	U
21	15	Isophorone	0.962	U	0.971	U
22	16	2,4-Dimethylphenol	2.89	U	2.91	U
23	17	Benzoic Acid	19.2	U	19.4	U
24	18	Naphthalene	0.962	U	0.971	U
25	19	2-Methylnaphthalene	0.962	U	0.971	U
26	20	2,4,6-Trichlorophenol	4.81	U	4.85	U
27	21	2,4,5-Trichlorophenol	4.81	U	4.85	U
28	22	Acenaphthene	0.962	U	0.971	U
29	23	Dibenzofuran	0.962	U	0.971	U
30	24	Fluorene	0.962	U	0.971	U
31	25	Pentachlorophenol	4.81	U	4.85	U
32	26	bis(2-Ethylhexyl)phthalate	0.962	U	0.971	U
33	27					
34	28	**VOLATILES (µg/L)**				
35	29	**EPA Method SW8260**				
36	30	Acetone	50	U	50	U
37	31	Carbon Disulfide	2	U	2	U
38	32	2-Butanone	10	U	10	U
39	33	Benzene	0.4	U	0.3	U
40	34	Bromoform	1	U	1	U
41	35	Toluene	1	U	1	U
42	36	Ethylbenzene	1	U	1	U
43	37	Styrene	1	U	1	U
44	38	m,p-Xylene	2	U	2	U
45	39	o-Xylene	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U
48	42	Isopropylbenzene	1	U	1	U
49	43	n-Propylbenzene	1	U	1	U
50	44	tert-Butylbenzene	1	U	1	U
51	45	sec-Butylbenzene	1	U	1	U
52	46	4-Isopropyltoluene	1	U	1	U
53	47	n-Butylbenzene	1	U	1	U
54	48	Naphthalene	1	U	1	U
55	48.5	Methyl tert-butyl ether	1	U	1	U
56	49					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**				
58	51	**Method OR-DEQ**				
59	52	**TPH-Diesel**	0.242	U	**0.331**	
60	53	**TPH-D Motor Oil**	0.484	U	0.513	U
61	54	**TPH-Gasoline**	0.1	U	0.1	U
62	55					
63	56	**PRIORITY POLLUTANT**				
64	57	**METALS (mg/L)**				
65	58	Arsenic (7060)	0.001	U	0.001	U

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW28S		LW28S	
4			0402080-02		0406040-01	
5			2/17/04		6/7/04	
66	59	Chromium (6010)	0.005	U	0.005	U
67	60	Copper (6010)	0.01	U	0.01	U
68	61	Lead (7421)	0.0001	U	**0.0002**	
69	62	Nickel (6010)	0.005	U	**0.0094**	
70	63	Zinc (6010)	0.01	U	0.01	U
71	64					
72	65	**MAJOR IONS AND CONVENTIONALS**				
73	66	Calcium (mg/L) (6010)	NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**75**		**92**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.17**		**1.04**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA	
86	79					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW28S		LW28S	
4			0402080-02		0406040-01	
5			2/17/04		6/7/04	
87	80	**FIELD PARAMETERS**				
88	81	pH (avg)	5.84		4.93	
89	82	Temperature (° C) (avg)	11.5		13.2	
90	83	Conductivity (um/hos)	61		67	
91	84	Dissolved oxygen (mg/L) (avg)	6.56		4.51	
92	85					
93	86	**DIOXINS AND FURANS (ng/L)**				
94	87	**Method 8290**				
95	88	2,3,7,8-TCDF	NA		NA	
96	89	Total TCDF	NA		NA	
97	90	2,3,7,8-TCDD	NA		NA	
98	91	Total TCDD	NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA	
101	94	Total PeCDF	NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA	
103	96	Total PeCDD	NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA	
108	101	Total HxCDF	NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA	
112	105	Total HxCDD	NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA	
115	108	Total HpCDF	NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA	
117	110	Total HpCDD	NA		NA	
118	111	OCDF	NA		NA	
119	112	OCDD	NA		NA	
120						
121		**ETHANOL (mg/L)**	NA		NA	
122						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW28S		LW28S	
4			0402080-02		0406040-01	
5			2/17/04		6/7/04	
123		**PAHs (µg/L)**				
124		**EPA Method SW8270 SIM**				
125		Naphthalene	**0.0675**	J	0.05	U
126		2-Methylnaphthalene	NA		NA	
127		Acenaphthylene	0.0482	UJ	0.05	U
128		Acenaphthene	0.0482	UJ	0.05	U
129		Fluorene	0.0482	UJ	**0.0599**	
130		Anthracene	0.0482	UJ	0.05	U
131		Dibenzofuran	NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW29S		LW29S		LW29S		LW29S		LW29S	
4			FZ04C		0402080-08		0406050-06		0408006-06		0411047-02	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04	
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		5.18	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2	U	1.96	U	2.01	U	1.94	U	2.07	U
20	14	4-Methylphenol	1	U	9.79	U	10.1	U	9.71	U	10.4	U
21	15	Isophorone	1	U	0.979	U	1.01	U	0.971	U	1.04	U
22	16	2,4-Dimethylphenol	3	U	2.94	U	3.02	U	2.91	U	3.11	U
23	17	Benzoic Acid	10	U	19.6	U	20.1	U	19.4	U	20.7	U
24	18	Naphthalene	1	U	0.979	U	1.01	U	0.971	U	1.04	U
25	19	2-Methylnaphthalene	1	U	0.979	U	1.01	U	0.971	U	1.04	U
26	20	2,4,6-Trichlorophenol	5	U	4.9	U	5.04	U	4.85	U	5.18	U
27	21	2,4,5-Trichlorophenol	5	U	4.9	U	5.04	U	4.85	U	5.18	U
28	22	Acenaphthene	1	U	0.979	U	1.01	U	0.971	U	1.04	U
29	23	Dibenzofuran	1	U	0.979	U	1.01	U	0.971	U	1.04	U
30	24	Fluorene	1	U	0.979	U	1.01	U	0.971	U	1.04	U
31	25	Pentachlorophenol	5	U	4.9	U	5.04	U	4.85	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	1	U	0.979	U	1.01	U	0.971	U	1.04	U
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	5	U	50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U
39	33	Benzene	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	1	U	1	U	1	U	1	U	1	U
49	43	n-Propylbenzene	1	U	1	U	1	U	1	U	1	U
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	1	U	1	U	1	U	1	U	1	U
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	1	U	1	U	1	U	1	U	1	U
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U
55	48.5	Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	0.25	U	0.243	U	0.255	U	**0.337**		**0.36**	
60	53	**TPH-D Motor Oil**	0.5	U	0.485	U	0.511	U	0.481	U	0.503	U
61	54	**TPH-Gasoline**	0.25	U	0.1	U	0.1	U	0.1	U	0.1	U
62	55											
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.002**		**0.002**		**0.001**		0.00269	U	**0.00329**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW29S		LW29S		LW29S		LW29S		LW29S	
4			FZ04C		0402080-08		0406050-06		0408006-06		0411047-02	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04	
66	59	Chromium (6010)	0.005	U	0.005	U	**0.0178**		**0.0171**		**0.0169**	
67	60	Copper (6010)	0.002	U	0.01	U	0.01	U	0.01	U	0.01	U
68	61	Lead (7421)	0.001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U
69	62	Nickel (6010)	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	**0.007**		0.01	U	0.01	U	0.01	U	0.01	U
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**91**		**98**		**103**		**79**		**135**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.8**		**1.03**		**1.32**		**1.4**		**1.37**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW29S		LW29S		LW29S		LW29S		LW29S	
4			FZ04C		0402080-08		0406050-06		0408006-06		0411047-02	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.56		6.65		6.65		5.72		6.66	
89	82	Temperature (° C) (avg)	14.7		12.7		13.6		15.4		14.5	
90	83	Conductivity (um/hos)	112		129		88		151		136	
91	84	Dissolved oxygen (mg/L) (avg)	1.44		2.33		2.36		NM		0.96	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA	
122												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW29S		LW29S		LW29S		LW29S		LW29S	
4			FZ04C		0402080-08		0406050-06		0408006-06		0411047-02	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.1	U	0.0489	UJ	0.05	U	**0.06**		0.0529	U
126		2-Methylnaphthalene	0.1	U	NA		NA		NA		NA	
127		Acenaphthylene	0.1	U	0.0489	UJ	0.05	U	0.05	U	0.0529	U
128		Acenaphthene	0.1	U	0.0489	UJ	0.05	U	0.05	U	0.0529	U
129		Fluorene	0.1	U	0.0489	UJ	0.05	U	0.05	U	0.0529	U
130		Anthracene	0.1	U	0.0489	UJ	0.05	U	0.05	U	0.0529	U
131		Dibenzofuran	0.1	U	NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2					Dup of LW30S									
3			LW30S		X		LW30S		LW30S		LW30S		LW30S	
4			FZ04E		FZ04L		0402085-01		0406050-08		0408020-04		0411047-04	
5			10/27/03		10/27/03		2/18/04		6/8/04		8/03/04		11/8/04	
6														
7	1	**CHLORINATED PHENOLS (µg/L)**												
8	2	**EPA Method SW8040**												
9	3	Pentachlorophenol	NA		NA		NA		NA		NA		4.89	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA	
16	10													
17	11	**SEMIVOLATILES (µg/L)**												
18	12	**EPA Method SW8270**												
19	13	Phenol	2.2	U	2.2	U	1.95	U	1.97	U	1.94	U	1.96	U
20	14	4-Methylphenol	1.1	U	1.1	U	9.75	U	9.85	U	9.69	U	9.78	U
21	15	Isophorone	1.1	U	1.1	U	0.975	U	0.985	U	0.969	U	0.978	U
22	16	2,4-Dimethylphenol	3.3	U	3.3	U	2.92	U	2.96	U	2.91	U	2.93	U
23	17	Benzoic Acid	11	U	11	U	19.5	U	19.7	U	19.4	U	19.6	U
24	18	Naphthalene	1.1	U	1.1	U	0.975	U	0.985	U	0.969	U	0.978	U
25	19	2-Methylnaphthalene	1.1	U	1.1	U	0.975	U	0.985	U	0.969	U	0.978	U
26	20	2,4,6-Trichlorophenol	5.5	U	5.4	U	4.87	U	4.93	U	4.84	U	4.89	U
27	21	2,4,5-Trichlorophenol	5.5	U	5.4	U	4.87	U	4.93	U	4.84	U	4.89	U
28	22	Acenaphthene	1.1	U	1.1	U	0.975	U	**1.02**		0.969	U	0.978	U
29	23	Dibenzofuran	1.1	U	1.1	U	0.975	U	0.985	U	0.969	U	0.978	U
30	24	Fluorene	**1.4**		**1.5**		**1.39**		**2.02**		1.05	U	0.978	U
31	25	Pentachlorophenol	5.5	U	5.4	U	4.87	U	4.93	U	4.84	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	1.1	U	**1.7**		0.975	U	0.985	U	0.969	U	0.978	U
33	27													
34	28	**VOLATILES (µg/L)**												
35	29	**EPA Method SW8260**												
36	30	Acetone	5	U	5	U	50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	1	U	2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	5	U	10	U	10	U	10	U	10	U
39	33	Benzene	1	U	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	**1**		2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	**1.3**		1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	**9.8**		**9.6**		**7.32**		**8.76**		**7.68**	J	**4.67**	
49	43	n-Propylbenzene	**25**		**23**		**26.7**		**36.4**		**27.8**	J	**28**	
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	**2.5**		**2.4**		**1.64**		**2.3**		**2.48**	J	**1.17**	
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	**3.5**		**3.2**	M	**3.13**		**3.98**		**3.46**	J	**3.55**	
54	48	Naphthalene	5	U	5	U	1	U	1	U	1	U	1	U
55	48.5	Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U	1	U
56	49													
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**												
58	51	**Method OR-DEQ**												
59	52	**TPH-Diesel**	**0.87**		**0.86**		**2.06**		**2.23**		**1.44**		**0.747**	
60	53	**TPH-D Motor Oil**	0.5	U	0.5	U	0.486	U	0.497	U	0.493	U	0.491	U
61	54	**TPH-Gasoline**	**0.84**		**0.89**		**0.90**		**1.0**		**0.719**		**0.637**	
62	55													
63	56	**PRIORITY POLLUTANT**												
64	57	**METALS (mg/L)**												
65	58	Arsenic (7060)	**0.013**		**0.013**		**0.018**		**0.015**		**0.0163**		**0.0141**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1					Dup of LW30S									
2			LW30S		X		LW30S		LW30S		LW30S		LW30S	
3			FZ04E		FZ04L		0402085-01		0406050-08		0408020-04		0411047-04	
4			10/27/03		10/27/03		2/18/04		6/8/04		8/03/04		11/8/04	
5														
66	59	Chromium (6010)	0.005	U	0.005	U	**0.008**		0.005	U	**0.0147**		**0.0229**	
67	60	Copper (6010)	0.002	U	0.002	U	0.01	U	0.01	U	0.01	U	0.01	U
68	61	Lead (7421)	0.001	U	0.001	U	**0.0015**		**0.0012**		**0.00079**		**0.00076**	
69	62	Nickel (6010)	0.01	U	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	0.006	U	**0.007**		0.01	U	0.01	U	0.01	U	0.01	U
71	64													
72	65	**MAJOR IONS AND CONVENTIONALS**												
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**130**		**140**		**173**		**179**		**199**		**168**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.3**		**1.3**		**1.35**		**1.41**		**1.2**		**1.35**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA	
86	79													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2					Dup of LW30S									
3			LW30S		X		LW30S		LW30S		LW30S		LW30S	
4			FZ04E		FZ04L		0402085-01		0406050-08		0408020-04		0411047-04	
5			10/27/03		10/27/03		2/18/04		6/8/04		8/03/04		11/8/04	
87	80	**FIELD PARAMETERS**												
88	81	pH (avg)	6.59		6.59		6.64		6.67		6.06		6.84	
89	82	Temperature (° C) (avg)	14.7		14.7		13.5		13.6		15.5		14.3	
90	83	Conductivity (um/hos)	192		193		239		210		298		176	
91	84	Dissolved oxygen (mg/L) (avg)	2.46		2.27		1.22		2.55		2.24		0.31	
92	85													
93	86	**DIOXINS AND FURANS (ng/L)**												
94	87	**Method 8290**												
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA	
120														
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA	
122														

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2					Dup of LW30S									
3			LW30S		X		LW30S		LW30S		LW30S		LW30S	
4			FZ04E		FZ04L		0402085-01		0406050-08		0408020-04		0411047-04	
5			10/27/03		10/27/03		2/18/04		6/8/04		8/03/04		11/8/04	
123		**PAHs (µg/L)**												
124		**EPA Method SW8270 SIM**												
125		Naphthalene	0.11	U	0.11	U	**0.379**		**0.51**		**0.55**		**0.308**	
126		2-Methylnaphthalene	0.11	U	0.11	U	NA		NA		NA		NA	
127		Acenaphthylene	0.11	U	0.11	U	**0.126**		**0.19**		**0.32**		**0.0866**	
128		Acenaphthene	0.84		0.84		**0.864**		**0.83**		**0.64**		**0.404**	
129		Fluorene	1.6		1.7		**1.38**		**1.54**		**1.15**		**0.799**	
130		Anthracene	0.11	U	0.11	U	**0.0583**		**0.08**		**0.09**		**0.0481**	
131		Dibenzofuran	0.8		0.82		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW31S		LW31S		LW31S		LW31S		LW31S	
4			FZ04G		0402080-03		0406050-02		0408006-02		0411052-02	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04	
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		4.93	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2	U	1.93	U	1.9	U	1.9	U	1.97	U
20	14	4-Methylphenol	1	U	9.66	U	9.52	U	9.52	U	9.85	U
21	15	Isophorone	1	U	0.966	U	0.952	U	0.952	U	0.985	U
22	16	2,4-Dimethylphenol	3	U	2.9	U	2.86	U	2.86	U	2.96	U
23	17	Benzoic Acid	10	U	19.3	U	19	U	19	U	19.7	U
24	18	Naphthalene	1	U	0.966	U	0.952	U	0.952	U	0.985	U
25	19	2-Methylnaphthalene	1	U	0.966	U	0.952	U	0.952	U	0.985	U
26	20	2,4,6-Trichlorophenol	5.1	U	4.83	U	4.76	U	4.76	U	4.93	U
27	21	2,4,5-Trichlorophenol	5.1	U	4.83	U	4.76	U	4.76	U	4.93	U
28	22	Acenaphthene	1	U	0.966	U	0.952	U	0.952	U	0.985	U
29	23	Dibenzofuran	1	U	0.966	U	0.952	U	0.952	U	0.985	U
30	24	Fluorene	1	U	0.966	U	0.952	U	0.952	U	0.985	U
31	25	Pentachlorophenol	5.1	U	4.83	U	4.76	U	4.76	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	**2.4**		0.966	U	0.952	U	0.952	U	0.985	U
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	5	U	50	UJ	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	UJ	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	UJ	10	U	10	U	10	U
39	33	Benzene	1	U	0.4	UJ	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	UJ	1	U	1	U	1	U
41	35	Toluene	1	U	1	UJ	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	UJ	1	U	1	U	1	U
43	37	Styrene	1	U	1	UJ	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	2	UJ	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	UJ	1	U	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	UJ	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	UJ	1	U	1	U	1	U
48	42	Isopropylbenzene	1	U	1	UJ	1	U	1	U	1	U
49	43	n-Propylbenzene	1	U	1	UJ	1	U	1	U	1	U
50	44	tert-Butylbenzene	1	U	1	UJ	1	U	1	U	1	U
51	45	sec-Butylbenzene	1	U	1	UJ	1	U	1	U	1	U
52	46	4-Isopropyltoluene	1	U	1	UJ	1	U	1	U	1	U
53	47	n-Butylbenzene	1	U	1	UJ	1	U	1	U	1	U
54	48	Naphthalene	5	U	1	UJ	1	U	1	U	1	U
55	48.5	Methyl tert-butyl ether	1	U	1	UJ	1	U	1	U	1	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**0.59**		0.242	U	**0.469**		**0.576**		**0.568**	
60	53	**TPH-D Motor Oil**	0.5	U	0.483	U	0.492	U	0.475	U	**0.593**	
61	54	**TPH-Gasoline**	0.25	U	0.1	U	0.1	U	0.1	U	0.1	U
62	55											
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	0.001	U	0.001	U	0.001	U	0.00148	U	**0.00136**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW31S		LW31S		LW31S		LW31S		LW31S	
4			FZ04G		0402080-03		0406050-02		0408006-02		0411052-02	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04	
66	59	Chromium (6010)	0.005	U	0.005	U	**0.0187**		**0.0138**		**0.0182**	
67	60	Copper (6010)	0.002	U	0.01	U	0.01	U	0.01	U	0.01	U
68	61	Lead (7421)	0.001	U	0.0001	U	0.0001	U	0.0001	U	**0.00018**	
69	62	Nickel (6010)	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	**0.008**		0.01	U	0.01	U	0.01	U	0.01	U
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**140**		**101**		**143**		**100**		**160**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.7**		**1.08**		**2.53**		**2.96**		**1.82**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW31S		LW31S		LW31S		LW31S		LW31S	
4			FZ04G		0402080-03		0406050-02		0408006-02		0411052-02	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	5.90		6.15		5.86		5.7		6.38	
89	82	Temperature (° C) (avg)	14.7		12.8		13		15.2		14.3	
90	83	Conductivity (um/hos)	187		98		128		215		161	
91	84	Dissolved oxygen (mg/L) (avg)	3.10		4.42		2.6		NM		1.98	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA	
122												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW31S		LW31S		LW31S		LW31S		LW31S	
4			FZ04G		0402080-03		0406050-02		0408006-02		0411052-02	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.1	U	0.0486	UJ	0.05	U	0.05	U	0.0521	U
126		2-Methylnaphthalene	0.1	U	NA		NA		NA		NA	
127		Acenaphthylene	0.1	U	0.0486	UJ	0.05	U	0.05	U	0.0521	U
128		Acenaphthene	0.1	U	0.0486	UJ	0.05	U	0.05	U	0.0521	U
129		Fluorene	0.1	U	0.0486	UJ	0.05	U	0.05	U	0.0521	U
130		Anthracene	0.1	U	0.0486	UJ	0.05	U	0.05	U	0.0521	U
131		Dibenzofuran	0.1	U	NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW32S		LW32S		LW32S		LW32S		LW32S	
4			FZ04H		0402080-05		0406050-04		0408006-04		0411052-03	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04	
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		4.96	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2.1	U	1.96	U	1.99	U	1.94	U	1.98	U
20	14	4-Methylphenol	1	U	9.8	U	9.93	U	9.7	U	9.91	U
21	15	Isophorone	1	U	0.98	U	0.993	U	0.97	U	0.991	U
22	16	2,4-Dimethylphenol	3.1	U	2.94	U	2.98	U	2.91	U	2.97	U
23	17	Benzoic Acid	10	U	19.6	U	19.9	U	19.4	U	19.8	U
24	18	Naphthalene	1	U	0.98	U	0.993	U	0.97	U	0.991	U
25	19	2-Methylnaphthalene	1	U	0.98	U	0.993	U	0.97	U	0.991	U
26	20	2,4,6-Trichlorophenol	5.2	U	4.9	U	4.97	U	4.85	U	4.96	U
27	21	2,4,5-Trichlorophenol	5.2	U	4.9	U	4.97	U	4.85	U	4.96	U
28	22	Acenaphthene	1	U	0.98	U	0.993	U	0.97	U	0.991	U
29	23	Dibenzofuran	1	U	0.98	U	0.993	U	0.97	U	0.991	U
30	24	Fluorene	1	U	0.98	U	0.993	U	0.97	U	0.991	U
31	25	Pentachlorophenol	5.2	U	4.9	U	4.97	U	4.85	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	**2.1**		0.98	U	0.993	U	0.97	U	0.991	U
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	5	U	50	UJ	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	UJ	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	UJ	10	U	10	U	10	U
39	33	Benzene	1	U	0.4	UJ	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	UJ	1	U	1	U	1	U
41	35	Toluene	1	U	1	UJ	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	UJ	1	U	1	U	1	U
43	37	Styrene	1	U	1	UJ	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	2	UJ	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	UJ	1	U	1	U	**1.6**	
46	40	1,3,5-Trimethylbenzene	1	U	1	UJ	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	UJ	1	U	1	U	1	U
48	42	Isopropylbenzene	**18**		**4.27**	J	**7.05**		**19.4**	J	**37.5**	
49	43	n-Propylbenzene	**20**		**4.87**	J	**9.16**		**20.5**	J	**50.6**	
50	44	tert-Butylbenzene	**1**		1	UJ	1	U	1	U	**1.58**	
51	45	sec-Butylbenzene	**6.5**		**2.52**	J	**3.73**		**8.65**	J	**12**	
52	46	4-Isopropyltoluene	1	U	1	UJ	1	U	1	U	1	U
53	47	n-Butylbenzene	**6.1**		**2.24**	J	**2.69**		**8.47**	J	**10.7**	
54	48	Naphthalene	5	U	1	UJ	1	U	1	U	1	U
55	48.5	Methyl tert-butyl ether	1	U	1	UJ	1	U	1	U	1	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**3.3**		**1.84**		**3.48**		**4.24**		**4.44**	
60	53	**TPH-D Motor Oil**	0.5	U	0.488	U	0.5	U	0.488	U	**0.721**	
61	54	**TPH-Gasoline**	**1.8**		**1.1**		**1.17**		**1.33**		**2.87**	
62	55											
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.034**		**0.023**		**0.026**		**0.0314**		**0.0303**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW32S		LW32S		LW32S		LW32S		LW32S	
4			FZ04H		0402080-05		0406050-04		0408006-04		0411052-03	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04	
66	59	Chromium (6010)	0.005	U	**0.0124**		**0.0162**		**0.0125**		**0.0175**	
67	60	Copper (6010)	0.002	U	0.01	U	0.01	U	0.01	U	0.01	U
68	61	Lead (7421)	0.001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U
69	62	Nickel (6010)	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	**0.008**		0.01	U	0.01	U	0.01	U	0.01	U
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**250**		**196**		**232**		**290**		**273**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.8**		**1.71**		**3.19**		**27**		**2.39**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW32S		LW32S		LW32S		LW32S		LW32S	
4			FZ04H		0402080-05		0406050-04		0408006-04		0411052-03	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.35		6.46		6.36		6.09		6.71	
89	82	Temperature (° C) (avg)	14.6		12.8		13.4		14.4		14.4	
90	83	Conductivity (um/hos)	409		265		316		637		380	
91	84	Dissolved oxygen (mg/L) (avg)	1.65		1.65		1.45		NM		1.32	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121		**ETHANOL (mg/L)**					NA		NA		NA	
122												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW32S		LW32S		LW32S		LW32S		LW32S	
4			FZ04H		0402080-05		0406050-04		0408006-04		0411052-03	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.1	U	**0.498**	J	**0.63**		**1.78**		**0.9**	
126		2-Methylnaphthalene	0.1	U	NA		NA		NA		NA	
127		Acenaphthylene	0.1	U	**0.0976**	J	**0.08**		**0.4**		**0.108**	
128		Acenaphthene	0.52		**0.38**	J	**0.3**		0.05	U	**0.47**	
129		Fluorene	0.67		**0.488**	J	**0.36**		**0.1**		**0.705**	
130		Anthracene	0.1	U	0.0488	UJ	**0.05**		**0.1**		0.0489	U
131		Dibenzofuran	0.38		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW33S		LW33S		LW33S	
4			0402080-04		0406050-03		0408006-03	
5			2/17/04		6/8/04		8/02/04	
7	1	**CHLORINATED PHENOLS (µg/L)**						
8	2	**EPA Method SW8040**						
9	3	Pentachlorophenol	NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA	
16	10							
17	11	**SEMIVOLATILES (µg/L)**						
18	12	**EPA Method SW8270**						
19	13	Phenol	1.94	U	1.94	U	1.93	U
20	14	4-Methylphenol	9.68	U	9.71	U	9.64	U
21	15	Isophorone	0.968	U	0.971	U	0.964	U
22	16	2,4-Dimethylphenol	2.9	U	2.91	U	2.89	U
23	17	Benzoic Acid	19.4	U	19.4	U	19.3	U
24	18	Naphthalene	0.968	U	0.971	U	0.964	U
25	19	2-Methylnaphthalene	0.968	U	0.971	U	0.964	U
26	20	2,4,6-Trichlorophenol	4.84	U	4.85	U	4.82	U
27	21	2,4,5-Trichlorophenol	4.84	U	4.85	U	4.82	U
28	22	Acenaphthene	0.968	U	0.971	U	0.964	U
29	23	Dibenzofuran	0.968	U	0.971	U	0.964	U
30	24	Fluorene	0.968	U	0.971	U	0.964	U
31	25	Pentachlorophenol	4.84	U	4.85	U	4.82	U
32	26	bis(2-Ethylhexyl)phthalate	0.968	U	0.971	U	**1.99**	
33	27							
34	28	**VOLATILES (µg/L)**						
35	29	**EPA Method SW8260**						
36	30	Acetone	50	U	50	U	50	U
37	31	Carbon Disulfide	2	U	2	U	2	U
38	32	2-Butanone	10	U	10	U	10	U
39	33	Benzene	0.4	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	U	1	U
41	35	Toluene	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U
44	38	m,p-Xylene	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U
48	42	Isopropylbenzene	1	U	1	U	1	U
49	43	n-Propylbenzene	1	U	1	U	1	U
50	44	tert-Butylbenzene	1	U	1	U	1	U
51	45	sec-Butylbenzene	1	U	1	U	1	U
52	46	4-Isopropyltoluene	1	U	1	U	1	U
53	47	n-Butylbenzene	1	U	1	U	1	U
54	48	Naphthalene	1	U	1	U	1	U
55	48.5	Methyl tert-butyl ether	1	U	1	U	1	U
56	49							
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**						
58	51	**Method OR-DEQ**						
59	52	**TPH-Diesel**	0.247	U	0.244	U	0.241	U
60	53	**TPH-D Motor Oil**	0.494	U	0.487	U	0.482	U
61	54	**TPH-Gasoline**	0.1	U	0.1	U	0.1	U
62	55							
63	56	**PRIORITY POLLUTANT**						
64	57	**METALS (mg/L)**						
65	58	Arsenic (7060)	0.001	U	0.001	U	0.001	U

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW33S		LW33S		LW33S	
4			0402080-04		0406050-03		0408006-03	
5			2/17/04		6/8/04		8/02/04	
66	59	Chromium (6010)	**0.0113**		0.005	U	0.005	U
67	60	Copper (6010)	0.01	U	0.01	U	0.01	U
68	61	Lead (7421)	0.0001	U	0.0001	U	0.0001	U
69	62	Nickel (6010)	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	**0.0111**		0.01	U	0.01	U
71	64							
72	65	**MAJOR IONS AND CONVENTIONALS**						
73	66	Calcium (mg/L) (6010)	NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**105**		**150**		**100**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.39**		**1.93**		**2.19**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA	
86	79							

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW33S		LW33S		LW33S	
4			0402080-04		0406050-03		0408006-03	
5			2/17/04		6/8/04		8/02/04	
87	80	**FIELD PARAMETERS**						
88	81	pH (avg)	6.18		6.08		5.23	
89	82	Temperature (° C) (avg)	11.7		14.2		16.8	
90	83	Conductivity (um/hos)	113		140		235	
91	84	Dissolved oxygen (mg/L) (avg)	4.61		1.85		NM	
92	85							
93	86	**DIOXINS AND FURANS (ng/L)**						
94	87	**Method 8290**						
95	88	2,3,7,8-TCDF	NA		NA		NA	
96	89	Total TCDF	NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA	
98	91	Total TCDD	NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA	
118	111	OCDF	NA		NA		NA	
119	112	OCDD	NA		NA		NA	
120								
121		**ETHANOL (mg/L)**	NA		NA		NA	
122								

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H
1								
2								
3			LW33S		LW33S		LW33S	
4			0402080-04		0406050-03		0408006-03	
5			2/17/04		6/8/04		8/02/04	
123		**PAHs (µg/L)**						
124		**EPA Method SW8270 SIM**						
125		Naphthalene	0.0483	UJ	0.05	U	0.05	U
126		2-Methylnaphthalene	NA		NA		NA	
127		Acenaphthylene	0.0483	UJ	0.05	U	0.05	U
128		Acenaphthene	0.0483	UJ	0.05	U	0.05	U
129		Fluorene	0.0483	UJ	0.05	U	0.05	U
130		Anthracene	0.0483	UJ	0.05	U	**0.05**	
131		Dibenzofuran	NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW34S		LW34S		LW34S		LW34S		LW34S	
4			FZ04J		0402080-01		0406050-01		0408006-01		0411047-01	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04	
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		5	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2	U	1.93	U	1.97	U	1.97	U	2	U
20	14	4-Methylphenol	1	U	9.65	U	9.85	U	9.83	U	10	U
21	15	Isophorone	1	U	0.965	U	0.985	U	0.983	U	1	U
22	16	2,4-Dimethylphenol	3.1	U	2.9	U	2.96	U	2.95	U	3	U
23	17	Benzoic Acid	10	U	19.3	U	19.7	U	19.7	U	20	U
24	18	Naphthalene	1	U	0.965	U	0.985	U	0.983	U	1	U
25	19	2-Methylnaphthalene	1	U	0.965	U	0.985	U	0.983	U	1	U
26	20	2,4,6-Trichlorophenol	5.1	U	4.83	U	4.93	U	4.92	U	5	U
27	21	2,4,5-Trichlorophenol	5.1	U	4.83	U	4.93	U	4.92	U	5	U
28	22	Acenaphthene	1	U	0.965	U	0.985	U	0.983	U	1	U
29	23	Dibenzofuran	1	U	0.965	U	0.985	U	0.983	U	1	U
30	24	Fluorene	1	U	0.965	U	0.985	U	0.983	U	1	U
31	25	Pentachlorophenol	5.1	U	4.83	U	4.93	U	4.92	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	**4.9**		0.965	U	0.985	U	0.983	U	1	U
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	5	U	50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U
39	33	Benzene	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	1	U	1	U	1	U	1	U	1	U
49	43	n-Propylbenzene	1	U	1	U	1	U	1	U	1	U
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	1	U	1	U	1	U	1	U	1	U
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	1	U	1	U	1	U	1	U	1	U
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U
55	48.5	Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	0.25	U	0.242	U	0.242	U	0.242	U	0.251	U
60	53	**TPH-D Motor Oil**	0.5	U	0.484	U	0.484	U	0.483	U	0.501	U
61	54	**TPH-Gasoline**	0.25	U	0.1	U	0.1	U	0.1	U	0.1	U
62	55											
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.001**		0.001	U	0.001	U	0.001	U	0.001	U

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW34S		LW34S		LW34S		LW34S		LW34S	
4			FZ04J		0402080-01		0406050-01		0408006-01		0411047-01	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	**0.0116**		0.005	U
67	60	Copper (6010)	0.002	U	0.01	U	0.01	U	0.01	U	0.01	U
68	61	Lead (7421)	0.001	U	0.0001	U	**0.0002**		0.0001	U	0.00015	U
69	62	Nickel (6010)	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	**0.009**		0.01	U	0.01	U	**0.0133**		0.01	U
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**180**		**121**		**201**		**149**		**201**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.9**		**1.29**		**2.85**		**2.98**		**2.62**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW34S		LW34S		LW34S		LW34S		LW34S	
4			FZ04J		0402080-01		0406050-01		0408006-01		0411047-01	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.01		6.42		6.03		6.41		5.8	
89	82	Temperature (° C) (avg)	15.4		12.2		13.8		15		15.1	
90	83	Conductivity (um/hos)	234		142		218		303		207	
91	84	Dissolved oxygen (mg/L) (avg)	2.62		5.01		1.43		NM		1.38	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA	
122												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW34S		LW34S		LW34S		LW34S		LW34S	
4			FZ04J		0402080-01		0406050-01		0408006-01		0411047-01	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.1	U	0.049	UJ	0.05	U	0.05	U	0.0498	U
126		2-Methylnaphthalene	0.1	U	NA		NA		NA		NA	
127		Acenaphthylene	0.1	U	0.049	UJ	0.05	U	0.05	U	0.0498	U
128		Acenaphthene	0.1	U	0.049	UJ	0.05	U	0.05	U	0.0498	U
129		Fluorene	0.1	U	0.049	UJ	0.05	U	0.05	U	0.0498	U
130		Anthracene	0.1	U	0.049	UJ	0.05	U	0.05	U	0.0498	U
131		Dibenzofuran	0.1	U	NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW42S	
4			0411047-06	
5			11/8/04	
7	1	**CHLORINATED PHENOLS (µg/L)**		
8	2	**EPA Method SW8040**		
9	3	Pentachlorophenol	5.13	
10	4	2,4,6-Trichlorophenol	NA	
11	5	2,3,6-Trichlorophenol	NA	
12	6	2,4,5-Trichlorophenol	NA	
13	7	2,3,4-Trichlorophenol	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	9	2,3,4,5-Tetrachlorophenol	NA	
16	10			
17	11	**SEMIVOLATILES (µg/L)**		
18	12	**EPA Method SW8270**		
19	13	Phenol	2.05	
20	14	4-Methylphenol	10.3	
21	15	Isophorone	1.03	
22	16	2,4-Dimethylphenol	3.08	
23	17	Benzoic Acid	20.5	
24	18	Naphthalene	1.03	
25	19	2-Methylnaphthalene	1.03	
26	20	2,4,6-Trichlorophenol	5.13	
27	21	2,4,5-Trichlorophenol	5.13	
28	22	Acenaphthene	**1.59**	
29	23	Dibenzofuran	1.03	
30	24	Fluorene	**3.36**	
31	25	Pentachlorophenol	NA	
32	26	bis(2-Ethylhexyl)phthalate	1.03	
33	27			
34	28	**VOLATILES (µg/L)**		
35	29	**EPA Method SW8260**		
36	30	Acetone	50	
37	31	Carbon Disulfide	2	
38	32	2-Butanone	10	
39	33	Benzene	**1.22**	
40	34	Bromoform	1	
41	35	Toluene	1	
42	36	Ethylbenzene	1	
43	37	Styrene	1	
44	38	m,p-Xylene	2	
45	39	o-Xylene	1	
46	40	1,3,5-Trimethylbenzene	1	
47	41	1,2,4-Trimethylbenzene	1	
48	42	Isopropylbenzene	**8.96**	
49	43	n-Propylbenzene	**41.1**	
50	44	tert-Butylbenzene	1	
51	45	sec-Butylbenzene	**3.67**	
52	46	4-Isopropyltoluene	1	
53	47	n-Butylbenzene	**9.75**	
54	48	Naphthalene	1	
55	48.5	Methyl tert-butyl ether	1	
56	49			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	51	**Method OR-DEQ**		
59	52	**TPH-Diesel**	**2.23**	
60	53	**TPH-D Motor Oil**	0.505	
61	54	**TPH-Gasoline**	**1.72**	
62	55			
63	56	**PRIORITY POLLUTANT**		
64	57	**METALS (mg/L)**		
65	58	Arsenic (7060)	**0.0152**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW42S	
4			0411047-06	
5			11/8/04	
66	59	Chromium (6010)	**0.0215**	
67	60	Copper (6010)	0.01	
68	61	Lead (7421)	**0.00336**	
69	62	Nickel (6010)	0.005	
70	63	Zinc (6010)	0.01	
71	64			
72	65	**MAJOR IONS AND CONVENTIONALS**		
73	66	Calcium (mg/L) (6010)	NA	
74	67	Magnesium (mg/L) (6010)	NA	
75	68	Potassium (mg/L) (6010)	NA	
76	69	Sodium (mg/L) (6010)	NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**235**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.05**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA	
86	79			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW42S	
4			0411047-06	
5			11/8/04	
87	80	**FIELD PARAMETERS**		
88	81	pH (avg)	6.56	
89	82	Temperature (° C) (avg)	14.9	
90	83	Conductivity (um/hos)	283	
91	84	Dissolved oxygen (mg/L) (avg)	0.74	
92	85			
93	86	**DIOXINS AND FURANS (ng/L)**		
94	87	**Method 8290**		
95	88	2,3,7,8-TCDF	NA	
96	89	Total TCDF	NA	
97	90	2,3,7,8-TCDD	NA	
98	91	Total TCDD	NA	
99	92	1,2,3,7,8-PeCDF	NA	
100	93	2,3,4,7,8-PeCDF	NA	
101	94	Total PeCDF	NA	
102	95	1,2,3,7,8-PeCDD	NA	
103	96	Total PeCDD	NA	
104	97	1,2,3,4,7,8-HxCDF	NA	
105	98	1,2,3,6,7,8-HxCDF	NA	
106	99	2,3,4,6,7,8-HxCDF	NA	
107	100	1,2,3,7,8,9-HxCDF	NA	
108	101	Total HxCDF	NA	
109	102	1,2,3,4,7,8-HxCDD	NA	
110	103	1,2,3,6,7,8-HxCDD	NA	
111	104	1,2,3,7,8,9-HxCDD	NA	
112	105	Total HxCDD	NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	
115	108	Total HpCDF	NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	
117	110	Total HpCDD	NA	
118	111	OCDF	NA	
119	112	OCDD	NA	
120				
121		**ETHANOL (mg/L)**	NA	
122				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW42S	
4			0411047-06	
5			11/8/04	
123		**PAHs (µg/L)**		
124		**EPA Method SW8270 SIM**		
125		Naphthalene	**0.401**	
126		2-Methylnaphthalene	NA	
127		Acenaphthylene	**0.245**	
128		Acenaphthene	**1.09**	
129		Fluorene	**2.75**	
130		Anthracene	**0.137**	
131		Dibenzofuran	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW43S	
4			0411052-01	
5			11/9/04	
7	1	**CHLORINATED PHENOLS (µg/L)**		
8	2	**EPA Method SW8040**		
9	3	Pentachlorophenol	5.02	U
10	4	2,4,6-Trichlorophenol	NA	
11	5	2,3,6-Trichlorophenol	NA	
12	6	2,4,5-Trichlorophenol	NA	
13	7	2,3,4-Trichlorophenol	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	9	2,3,4,5-Tetrachlorophenol	NA	
16	10			
17	11	**SEMIVOLATILES (µg/L)**		
18	12	**EPA Method SW8270**		
19	13	Phenol	2.01	U
20	14	4-Methylphenol	10	U
21	15	Isophorone	1	U
22	16	2,4-Dimethylphenol	3.01	U
23	17	Benzoic Acid	20.1	U
24	18	Naphthalene	1	U
25	19	2-Methylnaphthalene	1	U
26	20	2,4,6-Trichlorophenol	5.02	U
27	21	2,4,5-Trichlorophenol	5.02	U
28	22	Acenaphthene	**1.52**	
29	23	Dibenzofuran	1	U
30	24	Fluorene	**3.24**	
31	25	Pentachlorophenol	NA	
32	26	bis(2-Ethylhexyl)phthalate	1	U
33	27			
34	28	**VOLATILES (µg/L)**		
35	29	**EPA Method SW8260**		
36	30	Acetone	50	U
37	31	Carbon Disulfide	2	U
38	32	2-Butanone	10	U
39	33	Benzene	**0.68**	
40	34	Bromoform	1	U
41	35	Toluene	1	U
42	36	Ethylbenzene	1	U
43	37	Styrene	1	U
44	38	m,p-Xylene	2	U
45	39	o-Xylene	1	U
46	40	1,3,5-Trimethylbenzene	1	U
47	41	1,2,4-Trimethylbenzene	1	U
48	42	Isopropylbenzene	**6.94**	
49	43	n-Propylbenzene	**27.7**	
50	44	tert-Butylbenzene	1	U
51	45	sec-Butylbenzene	**2.42**	
52	46	4-Isopropyltoluene	1	U
53	47	n-Butylbenzene	**6.08**	
54	48	Naphthalene	1	U
55	48.5	Methyl tert-butyl ether	1	U
56	49			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	51	**Method OR-DEQ**		
59	52	**TPH-Diesel**	**1.91**	
60	53	**TPH-D Motor Oil**	**0.654**	
61	54	**TPH-Gasoline**	**0.988**	
62	55			
63	56	**PRIORITY POLLUTANT**		
64	57	**METALS (mg/L)**		
65	58	Arsenic (7060)	**0.0109**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW43S	
4			0411052-01	
5			11/9/04	
66	59	Chromium (6010)	**0.0176**	
67	60	Copper (6010)	0.01	U
68	61	Lead (7421)	**0.00068**	
69	62	Nickel (6010)	0.005	U
70	63	Zinc (6010)	0.01	U
71	64			
72	65	**MAJOR IONS AND CONVENTIONALS**		
73	66	Calcium (mg/L) (6010)	NA	
74	67	Magnesium (mg/L) (6010)	NA	
75	68	Potassium (mg/L) (6010)	NA	
76	69	Sodium (mg/L) (6010)	NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**199**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.79**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA	
86	79			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW43S	
4			0411052-01	
5			11/9/04	
87	80	**FIELD PARAMETERS**		
88	81	pH (avg)	6.47	
89	82	Temperature (° C) (avg)	15.1	
90	83	Conductivity (um/hos)	255	
91	84	Dissolved oxygen (mg/L) (avg)	1.32	
92	85			
93	86	**DIOXINS AND FURANS (ng/L)**		
94	87	**Method 8290**		
95	88	2,3,7,8-TCDF	NA	
96	89	Total TCDF	NA	
97	90	2,3,7,8-TCDD	NA	
98	91	Total TCDD	NA	
99	92	1,2,3,7,8-PeCDF	NA	
100	93	2,3,4,7,8-PeCDF	NA	
101	94	Total PeCDF	NA	
102	95	1,2,3,7,8-PeCDD	NA	
103	96	Total PeCDD	NA	
104	97	1,2,3,4,7,8-HxCDF	NA	
105	98	1,2,3,6,7,8-HxCDF	NA	
106	99	2,3,4,6,7,8-HxCDF	NA	
107	100	1,2,3,7,8,9-HxCDF	NA	
108	101	Total HxCDF	NA	
109	102	1,2,3,4,7,8-HxCDD	NA	
110	103	1,2,3,6,7,8-HxCDD	NA	
111	104	1,2,3,7,8,9-HxCDD	NA	
112	105	Total HxCDD	NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	
115	108	Total HpCDF	NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	
117	110	Total HpCDD	NA	
118	111	OCDF	NA	
119	112	OCDD	NA	
120				
121		**ETHANOL (mg/L)**	NA	
122				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW43S	
4			0411052-01	
5			11/9/04	
123		**PAHs (µg/L)**		
124		**EPA Method SW8270 SIM**		
125		Naphthalene	**0.453**	
126		2-Methylnaphthalene	NA	
127		Acenaphthylene	**0.306**	
128		Acenaphthene	**1.32**	
129		Fluorene	**3.16**	
130		Anthracene	**0.126**	
131		Dibenzofuran	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW44S	
4			0411047-07	
5			11/8/04	
7	1	**CHLORINATED PHENOLS (µg/L)**		
8	2	**EPA Method SW8040**		
9	3	Pentachlorophenol	4.93	U
10	4	2,4,6-Trichlorophenol	NA	
11	5	2,3,6-Trichlorophenol	NA	
12	6	2,4,5-Trichlorophenol	NA	
13	7	2,3,4-Trichlorophenol	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	9	2,3,4,5-Tetrachlorophenol	NA	
16	10			
17	11	**SEMIVOLATILES (µg/L)**		
18	12	**EPA Method SW8270**		
19	13	Phenol	1.97	U
20	14	4-Methylphenol	9.86	U
21	15	Isophorone	0.986	U
22	16	2,4-Dimethylphenol	2.96	U
23	17	Benzoic Acid	19.7	U
24	18	Naphthalene	0.986	U
25	19	2-Methylnaphthalene	0.986	U
26	20	2,4,6-Trichlorophenol	4.93	U
27	21	2,4,5-Trichlorophenol	4.93	U
28	22	Acenaphthene	0.986	U
29	23	Dibenzofuran	0.986	U
30	24	Fluorene	0.986	U
31	25	Pentachlorophenol	NA	
32	26	bis(2-Ethylhexyl)phthalate	0.986	U
33	27			
34	28	**VOLATILES (µg/L)**		
35	29	**EPA Method SW8260**		
36	30	Acetone	50	U
37	31	Carbon Disulfide	2	U
38	32	2-Butanone	10	U
39	33	Benzene	0.3	U
40	34	Bromoform	1	U
41	35	Toluene	1	U
42	36	Ethylbenzene	1	U
43	37	Styrene	1	U
44	38	m,p-Xylene	2	U
45	39	o-Xylene	1	U
46	40	1,3,5-Trimethylbenzene	1	U
47	41	1,2,4-Trimethylbenzene	1	U
48	42	Isopropylbenzene	**78.9**	
49	43	n-Propylbenzene	**61.4**	
50	44	tert-Butylbenzene	**1.72**	
51	45	sec-Butylbenzene	**11.9**	
52	46	4-Isopropyltoluene	1	U
53	47	n-Butylbenzene	**2.33**	
54	48	Naphthalene	1	U
55	48.5	Methyl tert-butyl ether	1	U
56	49			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	51	**Method OR-DEQ**		
59	52	**TPH-Diesel**	**3.77**	
60	53	**TPH-D Motor Oil**	0.502	U
61	54	**TPH-Gasoline**	**2.94**	
62	55			
63	56	**PRIORITY POLLUTANT**		
64	57	**METALS (mg/L)**		
65	58	Arsenic (7060)	**0.0123**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW44S	
4			0411047-07	
5			11/8/04	
66	59	Chromium (6010)	**0.0176**	
67	60	Copper (6010)	0.01	U
68	61	Lead (7421)	**0.00717**	
69	62	Nickel (6010)	0.005	U
70	63	Zinc (6010)	**0.0294**	
71	64			
72	65	**MAJOR IONS AND CONVENTIONALS**		
73	66	Calcium (mg/L) (6010)	NA	
74	67	Magnesium (mg/L) (6010)	NA	
75	68	Potassium (mg/L) (6010)	NA	
76	69	Sodium (mg/L) (6010)	NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**387**	
81	74	Chloride (mg/L) (EPA 325.2)	**3.89**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA	
86	79			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW44S	
4			0411047-07	
5			11/8/04	
87	80	**FIELD PARAMETERS**		
88	81	pH (avg)	6.46	
89	82	Temperature (° C) (avg)	14.9	
90	83	Conductivity (um/hos)	332	
91	84	Dissolved oxygen (mg/L) (avg)	0.56	
92	85			
93	86	**DIOXINS AND FURANS (ng/L)**		
94	87	**Method 8290**		
95	88	2,3,7,8-TCDF	NA	
96	89	Total TCDF	NA	
97	90	2,3,7,8-TCDD	NA	
98	91	Total TCDD	NA	
99	92	1,2,3,7,8-PeCDF	NA	
100	93	2,3,4,7,8-PeCDF	NA	
101	94	Total PeCDF	NA	
102	95	1,2,3,7,8-PeCDD	NA	
103	96	Total PeCDD	NA	
104	97	1,2,3,4,7,8-HxCDF	NA	
105	98	1,2,3,6,7,8-HxCDF	NA	
106	99	2,3,4,6,7,8-HxCDF	NA	
107	100	1,2,3,7,8,9-HxCDF	NA	
108	101	Total HxCDF	NA	
109	102	1,2,3,4,7,8-HxCDD	NA	
110	103	1,2,3,6,7,8-HxCDD	NA	
111	104	1,2,3,7,8,9-HxCDD	NA	
112	105	Total HxCDD	NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	
115	108	Total HpCDF	NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	
117	110	Total HpCDD	NA	
118	111	OCDF	NA	
119	112	OCDD	NA	
120				
121		**ETHANOL (mg/L)**	NA	
122				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			LW44S	
4			0411047-07	
5			11/8/04	
123		**PAHs (µg/L)**		
124		**EPA Method SW8270 SIM**		
125		Naphthalene	**0.706**	
126		2-Methylnaphthalene	NA	
127		Acenaphthylene	0.0498	U
128		Acenaphthene	**0.129**	
129		Fluorene	**0.179**	
130		Anthracene	0.0498	U
131		Dibenzofuran	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			N	
4			0408066-02	
5			8/10/04	
7	1	**CHLORINATED PHENOLS (µg/L)**		
8	2	**EPA Method SW8040**		
9	3	Pentachlorophenol	NA	
10	4	2,4,6-Trichlorophenol	NA	
11	5	2,3,6-Trichlorophenol	NA	
12	6	2,4,5-Trichlorophenol	NA	
13	7	2,3,4-Trichlorophenol	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	9	2,3,4,5-Tetrachlorophenol	NA	
16	10			
17	11	**SEMIVOLATILES (µg/L)**		
18	12	**EPA Method SW8270**		
19	13	Phenol	2	U
20	14	4-Methylphenol	9.99	U
21	15	Isophorone	0.999	U
22	16	2,4-Dimethylphenol	**4.48**	
23	17	Benzoic Acid	20	U
24	18	Naphthalene	**53.7**	
25	19	2-Methylnaphthalene	**37.7**	
26	20	2,4,6-Trichlorophenol	5	U
27	21	2,4,5-Trichlorophenol	5	U
28	22	Acenaphthene	**1.19**	
29	23	Dibenzofuran	0.999	U
30	24	Fluorene	**2.55**	
31	25	Pentachlorophenol	5	U
32	26	bis(2-Ethylhexyl)phthalate	**1.23**	
33	27			
34	28	**VOLATILES (µg/L)**		
35	29	**EPA Method SW8260**		
36	30	Acetone	50	U
37	31	Carbon Disulfide	2	U
38	32	2-Butanone	10	U
39	33	Benzene	**424**	
40	34	Bromoform	1	U
41	35	Toluene	**92.3**	
42	36	Ethylbenzene	**744**	
43	37	Styrene	1	U
44	38	m,p-Xylene	**904**	
45	39	o-Xylene	**446**	
46	40	1,3,5-Trimethylbenzene	**124**	
47	41	1,2,4-Trimethylbenzene	**518**	
48	42	Isopropylbenzene	**61.6**	
49	43	n-Propylbenzene	**102**	
50	44	tert-Butylbenzene	1	U
51	45	sec-Butylbenzene	**4.72**	
52	46	4-Isopropyltoluene	**5.33**	
53	47	n-Butylbenzene	**5.14**	
54	48	Naphthalene	**112**	
55	48.5	Methyl tert-butyl ether	1	U
56	49			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	51	**Method OR-DEQ**		
59	52	**TPH-Diesel**	**7.65**	
60	53	**TPH-D Motor Oil**	0.501	U
61	54	**TPH-Gasoline**	**0.012**	
62	55			
63	56	**PRIORITY POLLUTANT**		
64	57	**METALS (mg/L)**		
65	58	Arsenic (7060)	**0.0373**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			N	
4			0408066-02	
5			8/10/04	
66	59	Chromium (6010)	**0.0165**	
67	60	Copper (6010)	0.01	U
68	61	Lead (7421)	**0.00733**	
69	62	Nickel (6010)	0.005	U
70	63	Zinc (6010)	**0.0193**	
71	64			
72	65	**MAJOR IONS AND CONVENTIONALS**		
73	66	Calcium (mg/L) (6010)	NA	
74	67	Magnesium (mg/L) (6010)	NA	
75	68	Potassium (mg/L) (6010)	NA	
76	69	Sodium (mg/L) (6010)	NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**278**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.68**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA	
86	79			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			N	
4			0408066-02	
5			8/10/04	
87	80	**FIELD PARAMETERS**		
88	81	pH (avg)	6.16	
89	82	Temperature (° C) (avg)	15.8	
90	83	Conductivity (um/hos)	692	
91	84	Dissolved oxygen (mg/L) (avg)	3.72	
92	85			
93	86	**DIOXINS AND FURANS (ng/L)**		
94	87	**Method 8290**		
95	88	2,3,7,8-TCDF	NA	
96	89	Total TCDF	NA	
97	90	2,3,7,8-TCDD	NA	
98	91	Total TCDD	NA	
99	92	1,2,3,7,8-PeCDF	NA	
100	93	2,3,4,7,8-PeCDF	NA	
101	94	Total PeCDF	NA	
102	95	1,2,3,7,8-PeCDD	NA	
103	96	Total PeCDD	NA	
104	97	1,2,3,4,7,8-HxCDF	NA	
105	98	1,2,3,6,7,8-HxCDF	NA	
106	99	2,3,4,6,7,8-HxCDF	NA	
107	100	1,2,3,7,8,9-HxCDF	NA	
108	101	Total HxCDF	NA	
109	102	1,2,3,4,7,8-HxCDD	NA	
110	103	1,2,3,6,7,8-HxCDD	NA	
111	104	1,2,3,7,8,9-HxCDD	NA	
112	105	Total HxCDD	NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	
115	108	Total HpCDF	NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	
117	110	Total HpCDD	NA	
118	111	OCDF	NA	
119	112	OCDD	NA	
120				
121		**ETHANOL (mg/L)**	NA	
122				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			N	
4			0408066-02	
5			8/10/04	
123		**PAHs (µg/L)**		
124		**EPA Method SW8270 SIM**		
125		Naphthalene	**54.5**	
126		2-Methylnaphthalene	NA	
127		Acenaphthylene	**0.253**	
128		Acenaphthene	**1.16**	
129		Fluorene	**2.49**	
130		Anthracene	**0.121**	
131		Dibenzofuran	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2																				
3			OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S	
4			EM65A		EX87D		FF48G		FL41I		FU45F		FY72G		0402086-07		0406074-01		0408026-02	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04	
6																				
7	1	**CHLORINATED PHENOLS (µg/L)**																		
8	2	**EPA Method SW8040**																		
9	3	Pentachlorophenol	NA		**200**		**620**		**67**		**19**	J	**0.69**		**62.1**		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		**1.1**		NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		**0.56**		NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		25	U	NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		0.25	U	NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		**70**		NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		**6.9**		NA		NA		NA		NA		NA		NA		NA	
16	10																			
17	11	**SEMIVOLATILES (µg/L)**																		
18	12	**EPA Method SW8270**																		
19	13	Phenol	NA		NA		NA		NA		NA		NA		NA		1.97	U	2	U
20	14	4-Methylphenol	NA		NA		NA		NA		NA		NA		NA		9.83	U	10	U
21	15	Isophorone	NA		NA		NA		NA		NA		NA		NA		0.983	U	1	U
22	16	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA		NA		2.95	U	3	U
23	17	Benzoic Acid	NA		NA		NA		NA		NA		NA		NA		19.7	U	20	U
24	18	Naphthalene	NA		NA		NA		NA		NA		NA		NA		**10.4**		**11**	
25	19	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		**5.53**		**6.81**	
26	20	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		4.92	U	5	U
27	21	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		**9.9**		5	U
28	22	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		0.983	U	1	U
29	23	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		0.983	U	1	U
30	24	Fluorene	NA		NA		NA		NA		NA		NA		NA		0.983	U	1	U
31	25	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		**58.2**		5	U
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA		NA		0.983	U	1	U
33	27																			
34	28	**VOLATILES (µg/L)**																		
35	29	**EPA Method SW8260**																		
36	30	Acetone	**19**		**56**		NA		NA		NA		NA		NA		50	U	50	U
37	31	Carbon Disulfide	1.0	U	1	U	NA		NA		NA		NA		NA		2	U	2	U
38	32	2-Butanone	6.8	U	**5.4**		NA		NA		NA		NA		NA		10	U	10	U
39	33	Benzene	**320**		**65**		NA		NA		NA		NA		NA		**112**		**118**	J
40	34	Bromoform	1.0	U	1	U	NA		NA		NA		NA		NA		1	U	1	U
41	35	Toluene	**29**		**3.9**		NA		NA		NA		NA		NA		**4.66**		**8.87**	J
42	36	Ethylbenzene	**180**		**43**		NA		NA		NA		NA		NA		**118**		**163**	J
43	37	Styrene	1.0	U	1	U	NA		NA		NA		NA		NA		1	U	1	U
44	38	m,p-Xylene	**740**		**110**		NA		NA		NA		NA		NA		**273**		**466**	J
45	39	o-Xylene	**280**		**42**		NA		NA		NA		NA		NA		**112**		**161**	J
46	40	1,3,5-Trimethylbenzene	**160**		**54**		NA		NA		NA		NA		NA		**73.5**		**83**	J
47	41	1,2,4-Trimethylbenzene	**460**		**160**		NA		NA		NA		NA		NA		**208**		**231**	J
48	42	Isopropylbenzene	**140**		**27**		NA		NA		NA		NA		NA		**35.5**		**48.7**	J
49	43	n-Propylbenzene	1.0	U	**38**		NA		NA		NA		NA		NA		**54.7**		**47.8**	J
50	44	tert-Butylbenzene	**100**		1	U	NA		NA		NA		NA		NA		**1.95**		**1.63**	J
51	45	sec-Butylbenzene	1.0	U	**6.8**		NA		NA		NA		NA		NA		**9.01**		**8.09**	J
52	46	4-Isopropyltoluene	**29**		**6.9**		NA		NA		NA		NA		NA		**6.85**		**6.84**	J
53	47	n-Butylbenzene	28	U	**6.1**	M	NA		NA		NA		NA		NA		**4.85**		**4.21**	J
54	48	Naphthalene	**83**		**15**		NA		NA		NA		NA		NA		**18.2**		**17.7**	J
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		1	U	1	U
56	49																			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																		
58	51	**Method OR-DEQ**																		
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																			
63	56	**PRIORITY POLLUTANT**																		
64	57	**METALS (mg/L)**																		
65	58	Arsenic (7060)	**0.02**		NA		NA		NA		NA		NA		NA		**0.015**		**0.00838**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2																				
3			OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S	
4			EM65A		EX87D		FF48G		FL41I		FU45F		FY72G		0402086-07		0406074-01		0408026-02	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04	
66	59	Chromium (6010)	0.005	U	NA		NA		NA		NA		NA		NA		**0.0173**		**0.0177**	
67	60	Copper (6010)	0.002	U	NA		NA		NA		NA		NA		NA		0.01	U	0.01	U
68	61	Lead (7421)	0.001	U	NA		NA		NA		NA		NA		NA		0.0001	U	**0.000113**	
69	62	Nickel (6010)	0.01	U	NA		NA		NA		NA		NA		NA		**0.0078**		**0.0061**	
70	63	Zinc (6010)	**0.009**		NA		NA		NA		NA		NA		NA		0.01	U	0.01	U
71	64																			
72	65	**MAJOR IONS AND CONVENTIONALS**																		
73	66	Calcium (mg/L) (6010)	**32.4**		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**8.55**		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**3.4**		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**7.45**		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**160**		**190**		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1	U	NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**160**		**190**		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**240**		NA		NA		NA		NA		NA		NA		**301**		**210**	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		**3.07**		**2.52**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2																				
3			OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S	
4			EM65A		EX87D		FF48G		FL41I		FU45F		FY72G		0402086-07		0406074-01		0408026-02	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04	
87	80	**FIELD PARAMETERS**																		
88	81	pH (avg)	5.99		6.52		6.53		6.74		6.71		6.57		6.52		6.23		5.83	
89	82	Temperature (° C) (avg)	14.3		16.4		15		13		14.9		15.9		14.2		14.2		16	
90	83	Conductivity (um/hos)	302		427		369		274		262		317		270		387		351	
91	84	Dissolved oxygen (mg/L) (avg)	3.97		0.7		0.79		3.39		2.08		1.26		1.14		0.94		2.2	
92	85																			
93	86	**DIOXINS AND FURANS (ng/L)**																		
94	87	**Method 8290**																		
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																				
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2																				
3			OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S		OX1S	
4			EM65A		EX87D		FF48G		FL41I		FU45F		FY72G		0402086-07		0406074-01		0408026-02	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04	
123		**PAHs (µg/L)**																		
124		**EPA Method SW8270 SIM**																		
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		1	U
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		1	U
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																						
2																					Dup of OX2S	
3			OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		Y	
4			EM65B		EX87B		FF48H		FL58G		FU45E		0402086-09		0406074-02		0408026-03		0411066-10		0411066-02	
5			6/24/02		10/29/02		2/10/03		5/8/03		8/28/03		2/18/04		6/10/04		8/04/04		11/11/04		11/11/04	
7	1	**CHLORINATED PHENOLS (µg/L)**																				
8	2	**EPA Method SW8040**																				
9	3	Pentachlorophenol	NA		**1200**		**5400**		**6700**		**5800**	J	**5320**		NA		NA		**727**	J	**1150**	J
10	4	2,4,6-Trichlorophenol	NA		0.26	U	NA		NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		**0.28**		NA		NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		0.94	U	NA		NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		0.26	U	NA		NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		**110**		NA		NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		**6.5**		NA		NA		NA		NA		NA		NA		NA		NA	
16	10																					
17	11	**SEMIVOLATILES (µg/L)**																				
18	12	**EPA Method SW8270**																				
19	13	Phenol	NA		NA		NA		NA		NA		NA		2.05	U	2	U	1.99	U	2	U
20	14	4-Methylphenol	NA		NA		NA		NA		NA		NA		10.2	U	10	U	9.94	U	10	U
21	15	Isophorone	NA		NA		NA		NA		NA		NA		1.02	U	1	U	0.994	U	1	U
22	16	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA		3.07	U	3	U	2.98	U	3	U
23	17	Benzoic Acid	NA		NA		NA		NA		NA		NA		20.5	U	20	U	19.9	U	20	U
24	18	Naphthalene	NA		NA		NA		NA		NA		NA		**13.5**		**9.21**		**10.4**	J	**22.2**	J
25	19	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		**6.53**		**6.24**		**8.69**	J	**23.9**	J
26	20	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		5.12	U	5	U	4.97	U	5	U
27	21	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		5.12	U	5	U	4.97	U	5	U
28	22	Acenaphthene	NA		NA		NA		NA		NA		NA		1.02	U	1	U	0.994	U	1	U
29	23	Dibenzofuran	NA		NA		NA		NA		NA		NA		1.02	U	1	U	0.994	U	1	U
30	24	Fluorene	NA		NA		NA		NA		NA		NA		1.02	U	1	U	0.994	U	1	U
31	25	Pentachlorophenol	NA		NA		NA		NA		NA		NA		**5030**		**1500**		NA		NA	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA		1.02	U	1	U	0.994	U	1	U
33	27																					
34	28	**VOLATILES (µg/L)**																				
35	29	**EPA Method SW8260**																				
36	30	Acetone	**16**		**22**	M	NA		NA		NA		NA		50	U	**108**	J	50	U	50	U
37	31	Carbon Disulfide	3.0	U	1	U	NA		NA		NA		NA		2	U	**3.32**	J	2	U	2	U
38	32	2-Butanone	15	U	5	U	NA		NA		NA		NA		10	U	**11.3**	J	10	U	10	U
39	33	Benzene	3.0	U	**1.1**		NA		NA		NA		NA		**6.51**		**5.3**	J	**3.49**		**3.67**	
40	34	Bromoform	3.0	U	1	U	NA		NA		NA		NA		1	U	1	U	1	U	1	U
41	35	Toluene	**6.7**		1	U	NA		NA		NA		NA		**1.19**		**1.38**	J	1	U	1	U
42	36	Ethylbenzene	**43**		**24**		NA		NA		NA		NA		**91.3**		**74.7**	J	**48.9**		**50**	
43	37	Styrene	3.0	U	1	U	NA		NA		NA		NA		1	U	1	U	1	U	1	U
44	38	m,p-Xylene	**72**		**29**		NA		NA		NA		NA		**105**		**89.7**	J	**62.7**		**61.5**	
45	39	o-Xylene	**79**		**36**		NA		NA		NA		NA		**190**		**137**	J	**99.2**		**110**	
46	40	1,3,5-Trimethylbenzene	**46**		**21**		NA		NA		NA		NA		**83.1**		**72.3**	J	**78.8**		**70.1**	
47	41	1,2,4-Trimethylbenzene	**190**		**110**		NA		NA		NA		NA		**307**		**233**	J	**320**	J	**212**	J
48	42	Isopropylbenzene	**18**		**14**		NA		NA		NA		NA		**48.5**		**39.4**	J	**32.8**		**29.9**	
49	43	n-Propylbenzene	**28**		**25**		NA		NA		NA		NA		**62.8**		**40.7**	J	**46**		**39.4**	
50	44	tert-Butylbenzene	3.0	U	**1.8**		NA		NA		NA		NA		**2.91**		**2.14**	J	**2.74**		**2.22**	
51	45	sec-Butylbenzene	3.0	U	**8.4**		NA		NA		NA		NA		**22.9**		**13.6**	J	**16**		**13.4**	
52	46	4-Isopropyltoluene	**5.2**		**6.3**		NA		NA		NA		NA		**10.1**		**9.35**	J	**14.6**	J	**11.1**	J
53	47	n-Butylbenzene	5.8	U	**6.7**	M	NA		NA		NA		NA		**6.92**		**6.37**	J	**11.2**	J	**8.71**	J
54	48	Naphthalene	15	U	**11**		NA		NA		NA		NA		**22.6**		**21.6**	J	**23.3**		**25.2**	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		1	U	1	U	1	U	1	U
56	49																					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																				
58	51	**Method OR-DEQ**																				
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																					
63	56	**PRIORITY POLLUTANT**																				
64	57	**METALS (mg/L)**																				
65	58	Arsenic (7060)	**0.01**		NA		NA		NA		NA		NA		**0.004**		**0.00752**		**0.00915**		**0.00768**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																					Dup of OX2S	
2			OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		Y	
3			EM65B		EX87B		FF48H		FL58G		FU45E		0402086-09		0406074-02		0408026-03		0411066-10		0411066-02	
4			6/24/02		10/29/02		2/10/03		5/8/03		8/28/03		2/18/04		6/10/04		8/04/04		11/11/04		11/11/04	
5																						
66	59	Chromium (6010)	0.005	U	NA		NA		NA		NA		NA		**0.0134**		0.005	U	**0.0191**		**0.0141**	
67	60	Copper (6010)	0.002	U	NA		NA		NA		NA		NA		0.01	U	0.01	U	0.01	U	0.01	U
68	61	Lead (7421)	0.001	U	NA		NA		NA		NA		NA		0.0001	U	**0.000258**		**0.0401**	J	**0.0214**	J
69	62	Nickel (6010)	0.01	U	NA		NA		NA		NA		NA		0.005	U	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	**0.009**		NA		NA		NA		NA		NA		0.01	U	0.01	U	**0.0299**		**0.0247**	
71	64																					
72	65	**MAJOR IONS AND CONVENTIONALS**																				
73	66	Calcium (mg/L) (6010)	**33**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**10.7**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**2.7**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**6.06**		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**120**		**200**		NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1	U	NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**120**		**200**		NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**220**		NA		NA		NA		NA		NA		**389**		**358**		**443**		**428**	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		**3.58**		**2.81**		**4.69**		**4.56**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																						
2																					Dup of OX2S	
3			OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		Y	
4			EM65B		EX87B		FF48H		FL58G		FU45E		0402086-09		0406074-02		0408026-03		0411066-10		0411066-02	
5			6/24/02		10/29/02		2/10/03		5/8/03		8/28/03		2/18/04		6/10/04		8/04/04		11/11/04		11/11/04	
87	80	**FIELD PARAMETERS**																				
88	81	pH (avg)	6.15		6.40		6.7		6.49		6.66		6.57		6.25		5.96		6.62		6.61	
89	82	Temperature (° C) (avg)	15.5		15.9		14.2		13.6		14.9		13.6		14.8		15.6		15.2		15.1	
90	83	Conductivity (um/hos)	249		599		222		267		263		313		434		624		487		487	
91	84	Dissolved oxygen (mg/L) (avg)	4.10		0		1.49		2.21		1.43		1.48		1.07		1.82		1.34		1.34	
92	85																					
93	86	**DIOXINS AND FURANS (ng/L)**																				
94	87	**Method 8290**																				
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		0.00099	U	0.001855	U	**0.011663**	J	NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		**0.008498**		0.001855	U	**0.028916**		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		0.001186	U	0.002202	U	0.000465	UJ	NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		0.001186	U	0.002202	U	0.000465	U	NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		**0.005426**	J	0.001628	U	**0.028919**	J	NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		**0.003945**	J	0.001557	U	**0.022008**	J	NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		**0.093578**		**0.021311**		**0.589224**		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		0.001145	U	0.002569	U	**0.003825**	J	NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		0.001145	U	0.002569	U	**0.006169**		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		**0.027685**		**0.006922**	J	**0.129685**		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		**0.012362**	J	**0.003692**	J	**0.060882**		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		**0.01246**	J	**0.004637**	J	**0.086431**		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		0.001979	U	0.001753	U	0.003279	U	NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		**0.873515**		**0.232308**		**3.438667**		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		**0.00466**	J	0.00237	U	0.000658	U	NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		**0.115964**		**0.030842**		**0.672776**		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		**0.011181**	J	0.002173	U	0.055833	U	NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		**0.294442**		**0.062692**		**1.508675**		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		**0.705588**		**0.189857**		**3.607867**		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		**0.035143**		**0.013672**	J	**0.180702**		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		**3.428142**		**0.913668**		**17.465984**		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		**4.502444**		**1.222349**		**16.086098**	J	NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		**7.076281**		**1.891967**		**35.962568**		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		**3.277332**		**0.901706**		**18.415892**	J	NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		**33.577997**	J	**9.445627**		**172.764658**	J	NA	
120																						
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																						
2																					Dup of OX2S	
3			OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		OX2S		Y	
4			EM65B		EX87B		FF48H		FL58G		FU45E		0402086-09		0406074-02		0408026-03		0411066-10		0411066-02	
5			6/24/02		10/29/02		2/10/03		5/8/03		8/28/03		2/18/04		6/10/04		8/04/04		11/11/04		11/11/04	
123		**PAHs (µg/L)**																				
124		**EPA Method SW8270 SIM**																				
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		1	U	NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		1	U	NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2																				
3			OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S	
4			EM65C		EX87E		FF48F		FL41J		FU45G		FY72H		0402086-08		0406074-03		0408026-04	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04	
6																				
7	1	**CHLORINATED PHENOLS (µg/L)**																		
8	2	**EPA Method SW8040**																		
9	3	Pentachlorophenol	NA		**1200**	J	**5700**		**2600**		**1400**	J	**130**		**344**		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		**2.4**	J	NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		**1.3**	J	NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		9.2	UJ	NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		0.25	UJ	NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		**320**	J	NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		**29**	J	NA		NA		NA		NA		NA		NA		NA	
16	10																			
17	11	**SEMIVOLATILES (µg/L)**																		
18	12	**EPA Method SW8270**																		
19	13	Phenol	NA		NA		NA		NA		NA		NA		NA		1.95	U	**15.7**	
20	14	4-Methylphenol	NA		NA		NA		NA		NA		NA		NA		9.77	U	**22.2**	
21	15	Isophorone	NA		NA		NA		NA		NA		NA		NA		0.977	U	1	U
22	16	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA		NA		2.93	U	**13.9**	
23	17	Benzoic Acid	NA		NA		NA		NA		NA		NA		NA		19.5	U	20	U
24	18	Naphthalene	NA		NA		NA		NA		NA		NA		NA		**29.9**		**20.2**	
25	19	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		**13.5**		**9.63**	
26	20	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		4.88	U	5	U
27	21	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		4.88	U	5	U
28	22	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		0.977	U	1	U
29	23	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		0.977	U	1	U
30	24	Fluorene	NA		NA		NA		NA		NA		NA		NA		0.977	U	1	U
31	25	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		**728**		**59.2**	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA		NA		0.977	U	1	U
33	27																			
34	28	**VOLATILES (µg/L)**																		
35	29	**EPA Method SW8260**																		
36	30	Acetone	120	U	**240**		NA		NA		NA		NA		NA		50	U	**78.2**	
37	31	Carbon Disulfide	25	U	1	U	NA		NA		NA		NA		NA		2	U	**3.34**	
38	32	2-Butanone	120	U	**20**		NA		NA		NA		NA		NA		10	U	**27**	
39	33	Benzene	**66**		**94**		NA		NA		NA		NA		NA		**130**		**156**	
40	34	Bromoform	25	U	1	U	NA		NA		NA		NA		NA		1	U	1	U
41	35	Toluene	**63**		**31**		NA		NA		NA		NA		NA		**7.84**		**21.6**	
42	36	Ethylbenzene	**280**		**110**		NA		NA		NA		NA		NA		**206**		**250**	
43	37	Styrene	25	U	1	U	NA		NA		NA		NA		NA		1	U	1	U
44	38	m,p-Xylene	**820**		**430**		NA		NA		NA		NA		NA		**477**		**605**	
45	39	o-Xylene	**370**		**150**		NA		NA		NA		NA		NA		**225**		**295**	
46	40	1,3,5-Trimethylbenzene	**160**		**120**		NA		NA		NA		NA		NA		**92.3**		**113**	
47	41	1,2,4-Trimethylbenzene	**520**		**350**		NA		NA		NA		NA		NA		**331**		**360**	
48	42	Isopropylbenzene	**57**		**56**		NA		NA		NA		NA		NA		**70.1**		**79.1**	
49	43	n-Propylbenzene	**83**		**75**		NA		NA		NA		NA		NA		**103**		**78.4**	
50	44	tert-Butylbenzene	25	U	1	U	NA		NA		NA		NA		NA		**2.81**		**2.34**	
51	45	sec-Butylbenzene	25	U	**13**		NA		NA		NA		NA		NA		**15**		**13**	
52	46	4-Isopropyltoluene	25	U	**13**		NA		NA		NA		NA		NA		**12.1**		**12.5**	
53	47	n-Butylbenzene	25	U	**11**	M	NA		NA		NA		NA		NA		**8.37**		**8.92**	
54	48	Naphthalene	120	U	**37**		NA		NA		NA		NA		NA		**48.7**		**50.4**	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		1	U	1	U
56	49																			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																		
58	51	**Method OR-DEQ**																		
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																			
63	56	**PRIORITY POLLUTANT**																		
64	57	**METALS (mg/L)**																		
65	58	Arsenic (7060)	**0.02**		NA		NA		NA		NA		NA		NA		**0.021**		**0.0148**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2																				
3			OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S	
4			EM65C		EX87E		FF48F		FL41J		FU45G		FY72H		0402086-08		0406074-03		0408026-04	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04	
66	59	Chromium (6010)	0.005	U	NA		NA		NA		NA		NA		NA		**0.0119**		**0.0159**	
67	60	Copper (6010)	**0.002**		NA		NA		NA		NA		NA		NA		0.01	U	0.01	U
68	61	Lead (7421)	0.001	U	NA		NA		NA		NA		NA		NA		0.0001	U	**0.000426**	
69	62	Nickel (6010)	0.01	U	NA		NA		NA		NA		NA		NA		0.005	U	**0.0435**	
70	63	Zinc (6010)	**0.012**		NA		NA		NA		NA		NA		NA		0.01	U	**0.019**	
71	64																			
72	65	**MAJOR IONS AND CONVENTIONALS**																		
73	66	Calcium (mg/L) (6010)	**40.2**		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**11**		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**3.8**		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**8.75**		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**160**		**270**		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1	U	NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**160**		**270**		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**270**		NA		NA		NA		NA		NA		NA		**369**		**461**	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		**4.44**		**3.73**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2																				
3			OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S	
4			EM65C		EX87E		FF48F		FL41J		FU45G		FY72H		0402086-08		0406074-03		0408026-04	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04	
87	80	**FIELD PARAMETERS**																		
88	81	pH (avg)	5.94		6.44		6.59		6.73		6.7		6.65		6.54		6.16		5.85	
89	82	Temperature (° C) (avg)	14.4		15.3		15.1		13.5		15.2		16.2		14.1		15		18	
90	83	Conductivity (um/hos)	342		502		381		340		287		318		386		447		592	
91	84	Dissolved oxygen (mg/L) (avg)	4.34		0		1.24		2.93		2.07		2.14		1.76		0.74		1.4	
92	85																			
93	86	**DIOXINS AND FURANS (ng/L)**																		
94	87	**Method 8290**																		
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																				
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2																				
3			OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S		OX3S	
4			EM65C		EX87E		FF48F		FL41J		FU45G		FY72H		0402086-08		0406074-03		0408026-04	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		10/22/03		2/18/04		6/10/04		8/04/04	
123		**PAHs (µg/L)**																		
124		**EPA Method SW8270 SIM**																		
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		1	U
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		1	U
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2																		
3			OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S	
4			EM65D		EX87F		FF48I		FL41K		FU45J		0402086-11		0406074-04		0408026-05	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		2/18/04		6/10/04		8/04/04	
6																		
7	1	**CHLORINATED PHENOLS (µg/L)**																
8	2	**EPA Method SW8040**																
9	3	Pentachlorophenol	NA		**1200**	J	**880**		**8300**		**2200**	J	**1410**		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		**2.7**	J	NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		**0.81**	J	NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		11	UJ	NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		0.25	UJ	NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		**320**	J	NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		**32**	J	NA		NA		NA		NA		NA		NA	
16	10																	
17	11	**SEMIVOLATILES (µg/L)**																
18	12	**EPA Method SW8270**																
19	13	Phenol	NA		NA		NA		NA		NA		NA		1.99	U	2	U
20	14	4-Methylphenol	NA		NA		NA		NA		NA		NA		9.93	U	10	U
21	15	Isophorone	NA		NA		NA		NA		NA		NA		0.993	U	1	U
22	16	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA		2.98	U	**7.25**	
23	17	Benzoic Acid	NA		NA		NA		NA		NA		NA		19.9	U	20	U
24	18	Naphthalene	NA		NA		NA		NA		NA		NA		**43.7**		**28.5**	
25	19	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		**42.9**		**20.7**	
26	20	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		4.97	U	5	U
27	21	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		**7.59**		5	U
28	22	Acenaphthene	NA		NA		NA		NA		NA		NA		0.993	U	1	U
29	23	Dibenzofuran	NA		NA		NA		NA		NA		NA		0.993	U	1	U
30	24	Fluorene	NA		NA		NA		NA		NA		NA		0.993	U	1	U
31	25	Pentachlorophenol	NA		NA		NA		NA		NA		NA		**634**		**96.7**	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA		**1.42**		1	U
33	27																	
34	28	**VOLATILES (µg/L)**																
35	29	**EPA Method SW8260**																
36	30	Acetone	120	U	**12**	M	NA		NA		NA		NA		50	U	**157**	
37	31	Carbon Disulfide	25	U	**1.3**		NA		NA		NA		NA		2	U	2	U
38	32	2-Butanone	120	U	5	U	NA		NA		NA		NA		10	U	**18.8**	
39	33	Benzene	25	U	**24**		NA		NA		NA		NA		**109**		**77**	
40	34	Bromoform	25	U	1	U	NA		NA		NA		NA		1	U	1	U
41	35	Toluene	**71**		**23**		NA		NA		NA		NA		**2.77**		**6.91**	
42	36	Ethylbenzene	**440**		**330**		NA		NA		NA		NA		**292**		**303**	
43	37	Styrene	25	U	1	U	NA		NA		NA		NA		1	U	1	U
44	38	m,p-Xylene	**1300**		**820**		NA		NA		NA		NA		**236**		**324**	
45	39	o-Xylene	**500**		**430**		NA		NA		NA		NA		**318**		**336**	
46	40	1,3,5-Trimethylbenzene	**220**		**200**		NA		NA		NA		NA		**158**		**141**	
47	41	1,2,4-Trimethylbenzene	**590**		**580**		NA		NA		NA		NA		**524**		**532**	
48	42	Isopropylbenzene	**86**		**120**		NA		NA		NA		NA		**108**		**88.2**	
49	43	n-Propylbenzene	**110**		**120**		NA		NA		NA		NA		**125**		**114**	
50	44	tert-Butylbenzene	25	U	1	U	NA		NA		NA		NA		**3.95**		**2.82**	
51	45	sec-Butylbenzene	25	U	**22**		NA		NA		NA		NA		**24.6**		**14.6**	
52	46	4-Isopropyltoluene	25	U	**24**		NA		NA		NA		NA		**22.3**		**15.4**	
53	47	n-Butylbenzene	25	U	**25**	M	NA		NA		NA		NA		**17.7**		**10.8**	
54	48	Naphthalene	120	U	**99**		NA		NA		NA		NA		**64.9**		**66**	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		1	U	1	U
56	49																	
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																
58	51	**Method OR-DEQ**																
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA	
62	55																	
63	56	**PRIORITY POLLUTANT**																
64	57	**METALS (mg/L)**																
65	58	Arsenic (7060)	**0.021**		NA		NA		NA		NA		NA		**0.015**		**0.0137**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2																		
3			OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S	
4			EM65D		EX87F		FF48I		FL41K		FU45J		0402086-11		0406074-04		0408026-05	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		2/18/04		6/10/04		8/04/04	
66	59	Chromium (6010)	0.005	U	NA		NA		NA		NA		NA		**0.034**		0.005	U
67	60	Copper (6010)	0.002	U	NA		NA		NA		NA		NA		**0.0256**		0.01	U
68	61	Lead (7421)	0.001	U	NA		NA		NA		NA		NA		**0.0084**		**0.00107**	
69	62	Nickel (6010)	0.01	U	NA		NA		NA		NA		NA		**0.0219**		**0.0099**	
70	63	Zinc (6010)	**0.008**		NA		NA		NA		NA		NA		**0.0674**		**0.0114**	
71	64																	
72	65	**MAJOR IONS AND CONVENTIONALS**																
73	66	Calcium (mg/L) (6010)	**37.9**		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**10.4**		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**3.6**		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**8.42**		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**160**		**240**		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1	U	NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**160**		**240**		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**250**		NA		NA		NA		NA		NA		**271**		**456**	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		**4.11**		**3.42**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA	
86	79																	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2																		
3			OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S	
4			EM65D		EX87F		FF48I		FL41K		FU45J		0402086-11		0406074-04		0408026-05	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		2/18/04		6/10/04		8/04/04	
87	80	**FIELD PARAMETERS**																
88	81	pH (avg)	6.74		NM		6.39		6.09		6.41		6.27		6.19		6.07	
89	82	Temperature (° C) (avg)	14.5		NM		14.7		14		18		13.8		14.9		16.6	
90	83	Conductivity (um/hos)	326		NM		336		142		262		242		384		813	
91	84	Dissolved oxygen (mg/L) (avg)	4.42		NM		2.19		2.47		2.16		2.22		1.1		3.44	
92	85																	
93	86	**DIOXINS AND FURANS (ng/L)**																
94	87	**Method 8290**																
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA	
120																		
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA	
122																		

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2																		
3			OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S		OX4S	
4			EM65D		EX87F		FF48I		FL41K		FU45J		0402086-11		0406074-04		0408026-05	
5			6/24/02		10/29/02		2/10/03		5/7/03		8/28/03		2/18/04		6/10/04		8/04/04	
123		**PAHs (µg/L)**																
124		**EPA Method SW8270 SIM**																
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		1	U
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		1	U
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			OX5S		OX5S		OX5S		OX5S		OX5S	
4			FY72A		0402086-01		0406074-05		0408026-06		0411066-03	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04	
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	0.5	U	0.482	U	NA		NA		5.05	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	NA		NA		1.95	U	2	U	2.02	U
20	14	4-Methylphenol	NA		NA		9.73	U	10	U	10.1	U
21	15	Isophorone	NA		NA		0.973	U	1	U	1.01	U
22	16	2,4-Dimethylphenol	NA		NA		2.92	U	3	U	3.03	U
23	17	Benzoic Acid	NA		NA		19.5	U	20	U	20.2	U
24	18	Naphthalene	NA		NA		0.973	U	1	U	1.01	U
25	19	2-Methylnaphthalene	NA		NA		0.973	U	1	U	1.01	U
26	20	2,4,6-Trichlorophenol	NA		NA		4.86	U	5	U	5.05	U
27	21	2,4,5-Trichlorophenol	NA		NA		4.86	U	5	U	5.05	U
28	22	Acenaphthene	NA		NA		0.973	U	1	U	1.01	U
29	23	Dibenzofuran	NA		NA		0.973	U	1	U	1.01	U
30	24	Fluorene	NA		NA		0.973	U	1	U	1.01	U
31	25	Pentachlorophenol	NA		NA		4.86	U	5	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		0.973	U	1	U	1.01	U
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	NA		NA		50	U	50	U	50	U
37	31	Carbon Disulfide	NA		NA		2	U	2	U	2	U
38	32	2-Butanone	NA		NA		10	U	10	U	10	U
39	33	Benzene	NA		NA		0.3	U	0.3	U	0.3	U
40	34	Bromoform	NA		NA		1	U	1	U	1	U
41	35	Toluene	NA		NA		1	U	1	U	1	U
42	36	Ethylbenzene	NA		NA		1	U	1	U	1	U
43	37	Styrene	NA		NA		1	U	1	U	1	U
44	38	m,p-Xylene	NA		NA		2	U	2	U	2	U
45	39	o-Xylene	NA		NA		1	U	1	U	1	U
46	40	1,3,5-Trimethylbenzene	NA		NA		1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	NA		NA		1	U	1	U	1	U
48	42	Isopropylbenzene	NA		NA		1	U	1	U	1	U
49	43	n-Propylbenzene	NA		NA		1	U	1	U	1	U
50	44	tert-Butylbenzene	NA		NA		1	U	1	U	1	U
51	45	sec-Butylbenzene	NA		NA		1	U	1	U	1	U
52	46	4-Isopropyltoluene	NA		NA		1	U	1	U	1	U
53	47	n-Butylbenzene	NA		NA		1	U	1	U	1	U
54	48	Naphthalene	NA		NA		1	U	1	U	1	U
55	48.5	Methyl tert-butyl ether	NA		NA		1	U	1	U	1	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA	
62	55											
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	NA		NA		**0.010**		**0.014**		**0.0135**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			OX5S		OX5S		OX5S		OX5S		OX5S	
4			FY72A		0402086-01		0406074-05		0408026-06		0411066-03	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04	
6												
66	59	Chromium (6010)	NA		NA		**0.0126**		**0.0155**		0.005	U
67	60	Copper (6010)	NA		NA		0.01	U	0.01	U	0.01	U
68	61	Lead (7421)	NA		NA		0.0001	U	0.0001	U	0.00048	U
69	62	Nickel (6010)	NA		NA		0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	NA		NA		0.01	U	0.01	U	0.01	U
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		**255**		**276**		**211**	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		**3.44**		**3.19**		**2.3**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			OX5S		OX5S		OX5S		OX5S		OX5S	
4			FY72A		0402086-01		0406074-05		0408026-06		0411066-03	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.59		6.63		6.27		5.96		6.41	
89	82	Temperature (° C) (avg)	16.5		12.9		12.3		15.6		15.5	
90	83	Conductivity (um/hos)	288		234		346		510		248	
91	84	Dissolved oxygen (mg/L) (avg)	1.18		3.16		1.76		2.63		2.05	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA	
122												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			OX5S		OX5S		OX5S		OX5S		OX5S	
4			FY72A		0402086-01		0406074-05		0408026-06		0411066-03	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		1	U	NA	
128		Acenaphthene	NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		1	U	NA	
131		Dibenzofuran	NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2											Dup of OX6S			
3			OX6S		OX6S		OX6S		OX6S		Y		OX6S	
4			FY72B		0402086-02		0406074-06		0408026-07		0408026-01		0411066-04	
5			10/22/03		2/18/04		6/10/04		8/04/04		8/04/04		11/11/04	
7	1	**CHLORINATED PHENOLS (µg/L)**												
8	2	**EPA Method SW8040**												
9	3	Pentachlorophenol	**2100**		**527**		NA		NA		NA		**624**	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA	
16	10													
17	11	**SEMIVOLATILES (µg/L)**												
18	12	**EPA Method SW8270**												
19	13	Phenol	NA		NA		2	U	2	U	2	U	1.97	U
20	14	4-Methylphenol	NA		NA		10	U	10	U	10	U	9.84	U
21	15	Isophorone	NA		NA		1	U	1	U	1	U	0.984	U
22	16	2,4-Dimethylphenol	NA		NA		3	U	3	U	3	U	2.95	U
23	17	Benzoic Acid	NA		NA		20	U	20	U	20	U	19.7	U
24	18	Naphthalene	NA		NA		1	U	1	U	1	U	0.984	U
25	19	2-Methylnaphthalene	NA		NA		1	U	1	U	1	U	0.984	U
26	20	2,4,6-Trichlorophenol	NA		NA		5.01	U	5	U	5	U	4.92	U
27	21	2,4,5-Trichlorophenol	NA		NA		5.01	U	5	U	5	U	4.92	U
28	22	Acenaphthene	NA		NA		1	U	1	U	1	U	0.984	U
29	23	Dibenzofuran	NA		NA		1	U	1	U	1	U	0.984	U
30	24	Fluorene	NA		NA		1	U	1	U	1	U	0.984	U
31	25	Pentachlorophenol	NA		NA		**3280**		**604**		**498**		NA	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		1	U	1	U	1	U	0.984	U
33	27													
34	28	**VOLATILES (µg/L)**												
35	29	**EPA Method SW8260**												
36	30	Acetone	NA		NA		50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	NA		NA		2	U	2	U	2	U	2	U
38	32	2-Butanone	NA		NA		10	U	10	U	10	U	10	U
39	33	Benzene	NA		NA		0.3	U	0.3	U	0.3	U	0.3	U
40	34	Bromoform	NA		NA		1	U	1	U	1	U	1	U
41	35	Toluene	NA		NA		1	U	1	U	1	U	1	U
42	36	Ethylbenzene	NA		NA		**1.31**		1	U	**1.19**	J	1	U
43	37	Styrene	NA		NA		1	U	1	U	1	U	1	U
44	38	m,p-Xylene	NA		NA		2	U	2	U	2	U	2	U
45	39	o-Xylene	NA		NA		**5.49**		**3.11**	J	**3.36**	J	1	U
46	40	1,3,5-Trimethylbenzene	NA		NA		**17.7**		**10.9**	J	**11.9**	J	1	U
47	41	1,2,4-Trimethylbenzene	NA		NA		**83.7**		**77.6**	J	**75.9**	J	1	U
48	42	Isopropylbenzene	NA		NA		**4.94**		**2.23**	J	**2.43**	J	**1.8**	
49	43	n-Propylbenzene	NA		NA		**9.71**		**4.69**	J	**5.33**	J	1	U
50	44	tert-Butylbenzene	NA		NA		1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	NA		NA		**6.54**		**8.04**	J	**7.9**	J	**1.5**	
52	46	4-Isopropyltoluene	NA		NA		**2.71**		**3.4**	J	**3.74**	J	1	U
53	47	n-Butylbenzene	NA		NA		**2.06**		**2.1**	J	**2.31**	J	1	U
54	48	Naphthalene	NA		NA		**5.3**		**3.92**	J	**4.48**	J	1	U
55	48.5	Methyl tert-butyl ether	NA		NA		1	U	1	U	1	U	1	U
56	49													
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**												
58	51	**Method OR-DEQ**												
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA	
62	55													
63	56	**PRIORITY POLLUTANT**												
64	57	**METALS (mg/L)**												
65	58	Arsenic (7060)	NA		NA		**0.013**		**0.013**		**0.0127**		**0.0133**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2											Dup of OX6S			
3			OX6S		OX6S		OX6S		OX6S		Y		OX6S	
4			FY72B		0402086-02		0406074-06		0408026-07		0408026-01		0411066-04	
5			10/22/03		2/18/04		6/10/04		8/04/04		8/04/04		11/11/04	
66	59	Chromium (6010)	NA		NA		**0.0147**		**0.0127**		**0.0142**		0.005	U
67	60	Copper (6010)	NA		NA		0.01	U	0.01	U	0.01	U	0.01	U
68	61	Lead (7421)	NA		NA		0.0001	U	0.0001	U	0.0001	U	**0.00194**	
69	62	Nickel (6010)	NA		NA		0.005	U	0.005	U	0.005	U	**0.25**	
70	63	Zinc (6010)	NA		NA		0.01	U	0.01	U	0.01	U	**0.0833**	
71	64													
72	65	**MAJOR IONS AND CONVENTIONALS**												
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		**284**		**284**		**277**		**160**	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		**3.13**		**3.13**		**3.07**		**3.75**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA	
86	79													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2											Dup of OX6S			
3			OX6S		OX6S		OX6S		OX6S		Y		OX6S	
4			FY72B		0402086-02		0406074-06		0408026-07		0408026-01		0411066-04	
5			10/22/03		2/18/04		6/10/04		8/04/04		8/04/04		11/11/04	
87	80	**FIELD PARAMETERS**												
88	81	pH (avg)	6.67		6.63		6.38		5.93		5.91		6.55	
89	82	Temperature (° C) (avg)	16.3		14.4		14.6		15.8		16.2		16.2	
90	83	Conductivity (um/hos)	352		353		374		517		517		479	
91	84	Dissolved oxygen (mg/L) (avg)	2.63		1.23		1.38		2.6		2.28		0.55	
92	85													
93	86	**DIOXINS AND FURANS (ng/L)**												
94	87	**Method 8290**												
95	88	2,3,7,8-TCDF	NA		NA		0.001007	U	0.001308	U	NA		0.001679	UJ
96	89	Total TCDF	NA		NA		0.001007	U	0.001308	U	NA		0.001679	U
97	90	2,3,7,8-TCDD	NA		NA		0.001143	U	0.001655	U	NA		0.000421	UJ
98	91	Total TCDD	NA		NA		0.001143	U	0.001655	U	NA		0.000421	U
99	92	1,2,3,7,8-PeCDF	NA		NA		0.000721	U	0.001565	U	NA		0.000886	UJ
100	93	2,3,4,7,8-PeCDF	NA		NA		0.000702	U	0.001496	U	NA		0.001359	UJ
101	94	Total PeCDF	NA		NA		**0.00675**		0.001496	U	NA		**0.016804**	
102	95	1,2,3,7,8-PeCDD	NA		NA		0.001091	U	0.002223	U	NA		0.001631	U
103	96	Total PeCDD	NA		NA		0.001091	U	0.002223	U	NA		0.001631	U
104	97	1,2,3,4,7,8-HxCDF	NA		NA		**0.002389**	J	**0.005124**	J	NA		0.002207	UJ
105	98	1,2,3,6,7,8-HxCDF	NA		NA		0.000732	U	0.001659	U	NA		0.001128	U
106	99	2,3,4,6,7,8-HxCDF	NA		NA		0.000802	U	0.001727	U	NA		0.001206	U
107	100	1,2,3,7,8,9-HxCDF	NA		NA		0.000894	U	0.002002	U	NA		0.001389	U
108	101	Total HxCDF	NA		NA		**0.037855**		**0.117654**		NA		**0.064214**	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		0.001267	U	0.002125	U	NA		0.000608	U
110	103	1,2,3,6,7,8-HxCDD	NA		NA		**0.006653**	J	**0.014629**	J	NA		**0.013944**	J
111	104	1,2,3,7,8,9-HxCDD	NA		NA		0.001076	U	0.001949	U	NA		0.000578	U
112	105	Total HxCDD	NA		NA		**0.017614**		**0.037485**		NA		**0.029549**	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		**0.023098**		**0.059996**		NA		**0.045009**	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		0.001711	U	**0.007017**	J	NA		0.001752	U
115	108	Total HpCDF	NA		NA		**0.125689**		**0.325386**		NA		**0.23456**	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		**0.160343**		**0.381169**		NA		**0.292709**	
117	110	Total HpCDD	NA		NA		**0.251496**		**0.588687**		NA		**0.450367**	
118	111	OCDF	NA		NA		**0.087928**		**0.244329**		NA		**0.201198**	
119	112	OCDD	NA		NA		**0.761183**		**1.997929**		NA		**1.588077**	
120														
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA	
122														

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2											Dup of OX6S			
3			OX6S		OX6S		OX6S		OX6S		Y		OX6S	
4			FY72B		0402086-02		0406074-06		0408026-07		0408026-01		0411066-04	
5			10/22/03		2/18/04		6/10/04		8/04/04		8/04/04		11/11/04	
123		**PAHs (µg/L)**												
124		**EPA Method SW8270 SIM**												
125		Naphthalene	NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		1	U	1	U	NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		1	U	1	U	NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			OX7S		OX7S		OX7S		OX7S		OX7S	
4			FY72C		0402086-03		0406074-07		0408026-08		0411066-05	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04	
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	**720**		**166**		NA		NA		**84.7**	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	NA		NA		1.98	U	2	U	2.01	U
20	14	4-Methylphenol	NA		NA		9.92	U	10	U	10	U
21	15	Isophorone	NA		NA		0.992	U	1	U	1	U
22	16	2,4-Dimethylphenol	NA		NA		2.98	U	3	U	3.01	U
23	17	Benzoic Acid	NA		NA		19.8	U	20	U	20.1	U
24	18	Naphthalene	NA		NA		**1.86**		**1.5**		1	U
25	19	2-Methylnaphthalene	NA		NA		0.992	U	1	U	1	U
26	20	2,4,6-Trichlorophenol	NA		NA		4.96	U	5	U	5.02	U
27	21	2,4,5-Trichlorophenol	NA		NA		4.96	U	5	U	5.02	U
28	22	Acenaphthene	NA		NA		0.992	U	1	U	1	U
29	23	Dibenzofuran	NA		NA		0.992	U	1	U	1	U
30	24	Fluorene	NA		NA		0.992	U	1	U	1	U
31	25	Pentachlorophenol	NA		NA		**634**		**130**		NA	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		0.992	U	1	U	1	U
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	NA		NA		50	U	50	U	50	U
37	31	Carbon Disulfide	NA		NA		2	U	2	U	2	U
38	32	2-Butanone	NA		NA		10	U	10	U	10	U
39	33	Benzene	NA		NA		0.3	U	0.3	U	0.3	U
40	34	Bromoform	NA		NA		1	U	1	U	1	U
41	35	Toluene	NA		NA		1	U	1	U	1	U
42	36	Ethylbenzene	NA		NA		1	U	**1.18**	J	1	U
43	37	Styrene	NA		NA		1	U	1	U	1	U
44	38	m,p-Xylene	NA		NA		2	U	2	U	2	U
45	39	o-Xylene	NA		NA		**2.79**		**3.76**	J	1	U
46	40	1,3,5-Trimethylbenzene	NA		NA		**3.24**		**7.29**	J	1	U
47	41	1,2,4-Trimethylbenzene	NA		NA		**27.3**		**54.2**	J	**13.2**	
48	42	Isopropylbenzene	NA		NA		**1.23**		**1.62**	J	**1.4**	
49	43	n-Propylbenzene	NA		NA		**1.85**		**3.26**	J	1	U
50	44	tert-Butylbenzene	NA		NA		1	U	1	U	1	U
51	45	sec-Butylbenzene	NA		NA		**1.4**		**3.37**	J	1	U
52	46	4-Isopropyltoluene	NA		NA		1	U	**1.42**	J	1	U
53	47	n-Butylbenzene	NA		NA		1	U	**1.25**	J	1	U
54	48	Naphthalene	NA		NA		**4.59**		**4.89**	J	1	U
55	48.5	Methyl tert-butyl ether	NA		NA		1	U	1	U	1	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA	
62	55											
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	NA		NA		**0.011**		**0.014**		**0.0178**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			OX7S		OX7S		OX7S		OX7S		OX7S	
4			FY72C		0402086-03		0406074-07		0408026-08		0411066-05	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04	
66	59	Chromium (6010)	NA		NA		**0.0162**		**0.0139**		0.005	U
67	60	Copper (6010)	NA		NA		0.01	U	0.01	U	0.01	U
68	61	Lead (7421)	NA		NA		0.0001	U	0.0001	U	**0.001**	
69	62	Nickel (6010)	NA		NA		0.005	U	0.005	U	**0.169**	
70	63	Zinc (6010)	NA		NA		0.01	U	0.01	U	**0.0295**	
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		**315**		**241**		**355**	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		**2.88**		**2.91**		**3.76**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			OX7S		OX7S		OX7S		OX7S		OX7S	
4			FY72C		0402086-03		0406074-07		0408026-08		0411066-05	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.60		6.57		6.3		5.88		6.6	
89	82	Temperature (° C) (avg)	16.1		13.8		14.2		15.7		16	
90	83	Conductivity (um/hos)	326		393		370		489		416	
91	84	Dissolved oxygen (mg/L) (avg)	1.76		2.2		3.02		3.6		0.72	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA	
122												

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			OX7S		OX7S		OX7S		OX7S		OX7S	
4			FY72C		0402086-03		0406074-07		0408026-08		0411066-05	
5			10/22/03		2/18/04		6/10/04		8/04/04		11/11/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		1	U	NA	
128		Acenaphthene	NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		1	U	NA	
131		Dibenzofuran	NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2					Dup of OX8S									
3			OX8S		Y		OX8S		OX8S		OX8S		OX8S	
4			FY72E		FY72D		0402086-04		0406074-08		0408026-09		0411066-06	
5			10/22/03		10/22/03		2/18/04		6/10/04		8/04/04		11/11/04	
6														
7	1	**CHLORINATED PHENOLS (µg/L)**												
8	2	**EPA Method SW8040**												
9	3	Pentachlorophenol	**260**		**300**		**56.4**		NA		NA		**55**	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA	
16	10													
17	11	**SEMIVOLATILES (µg/L)**												
18	12	**EPA Method SW8270**												
19	13	Phenol	NA		NA		NA		1.97	U	2	U	1.93	U
20	14	4-Methylphenol	NA		NA		NA		9.84	U	10	U	9.64	U
21	15	Isophorone	NA		NA		NA		0.984	U	1	U	0.964	U
22	16	2,4-Dimethylphenol	NA		NA		NA		2.95	U	3	U	2.89	U
23	17	Benzoic Acid	NA		NA		NA		19.7	U	20	U	19.3	U
24	18	Naphthalene	NA		NA		NA		**3.38**		**1.09**		0.964	U
25	19	2-Methylnaphthalene	NA		NA		NA		0.984	U	1	U	0.964	U
26	20	2,4,6-Trichlorophenol	NA		NA		NA		4.92	U	5	U	4.82	U
27	21	2,4,5-Trichlorophenol	NA		NA		NA		4.92	U	5	U	4.82	U
28	22	Acenaphthene	NA		NA		NA		0.984	U	1	U	0.964	U
29	23	Dibenzofuran	NA		NA		NA		0.984	U	1	U	0.964	U
30	24	Fluorene	NA		NA		NA		0.984	U	1	U	0.964	U
31	25	Pentachlorophenol	NA		NA		NA		**206**		**76.8**		NA	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		0.984	U	1	U	0.964	U
33	27													
34	28	**VOLATILES (µg/L)**												
35	29	**EPA Method SW8260**												
36	30	Acetone	NA		NA		NA		50	U	50	U	50	U
37	31	Carbon Disulfide	NA		NA		NA		2	U	2	U	2	U
38	32	2-Butanone	NA		NA		NA		10	U	10	U	10	U
39	33	Benzene	NA		NA		NA		0.3	U	0.3	U	0.3	U
40	34	Bromoform	NA		NA		NA		1	U	1	U	1	U
41	35	Toluene	NA		NA		NA		1	U	1	U	1	U
42	36	Ethylbenzene	NA		NA		NA		**3.06**		**4.15**	J	**6**	
43	37	Styrene	NA		NA		NA		1	U	1	U	1	U
44	38	m,p-Xylene	NA		NA		NA		2	U	**2.84**	J	**2.19**	
45	39	o-Xylene	NA		NA		NA		**12.4**		**18.8**	J	**20.1**	
46	40	1,3,5-Trimethylbenzene	NA		NA		NA		**32**		**33.6**	J	**8.28**	
47	41	1,2,4-Trimethylbenzene	NA		NA		NA		**109**		**101**	J	**107**	
48	42	Isopropylbenzene	NA		NA		NA		**10.6**		**12.4**	J	**11.8**	
49	43	n-Propylbenzene	NA		NA		NA		**19.6**		**15.3**	J	**14.8**	
50	44	tert-Butylbenzene	NA		NA		NA		**2.14**		**2.12**	J	**1.53**	
51	45	sec-Butylbenzene	NA		NA		NA		**20.1**		**19.2**	J	**10.1**	
52	46	4-Isopropyltoluene	NA		NA		NA		**4.03**		**4.85**	J	**1.55**	
53	47	n-Butylbenzene	NA		NA		NA		**3.89**		**4.94**	J	**2.13**	
54	48	Naphthalene	NA		NA		NA		**6.04**		**6.53**	J	1	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		1	U	1	U	1	U
56	49													
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**												
58	51	**Method OR-DEQ**												
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA	
62	55													
63	56	**PRIORITY POLLUTANT**												
64	57	**METALS (mg/L)**												
65	58	Arsenic (7060)	NA		NA		NA		**0.012**		**0.0233**		**0.0259**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2					Dup of OX8S									
3			OX8S		Y		OX8S		OX8S		OX8S		OX8S	
4			FY72E		FY72D		0402086-04		0406074-08		0408026-09		0411066-06	
5			10/22/03		10/22/03		2/18/04		6/10/04		8/04/04		11/11/04	
66	59	Chromium (6010)	NA		NA		NA		**0.0143**		**0.0123**		**0.0136**	
67	60	Copper (6010)	NA		NA		NA		0.01	U	0.01	U	0.01	U
68	61	Lead (7421)	NA		NA		NA		0.0001	U	0.0001	U	**0.00104**	
69	62	Nickel (6010)	NA		NA		NA		0.005	U	0.005	U	**0.0818**	
70	63	Zinc (6010)	NA		NA		NA		0.01	U	0.01	U	**0.0139**	
71	64													
72	65	**MAJOR IONS AND CONVENTIONALS**												
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA		**379**		**315**		**365**	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		**4.22**		**4.12**		**3.76**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA	
86	79													

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2					Dup of OX8S									
3			OX8S		Y		OX8S		OX8S		OX8S		OX8S	
4			FY72E		FY72D		0402086-04		0406074-08		0408026-09		0411066-06	
5			10/22/03		10/22/03		2/18/04		6/10/04		8/04/04		11/11/04	
87	80	**FIELD PARAMETERS**												
88	81	pH (avg)	6.65		6.65		6.65		6.33		5.94		6.59	
89	82	Temperature (° C) (avg)	16.3		16.3		12.8		13.9		16.1		16.3	
90	83	Conductivity (um/hos)	337		337		451		437		566		465	
91	84	Dissolved oxygen (mg/L) (avg)	2.26		2.3		1.58		1.21		2.67		0.61	
92	85													
93	86	**DIOXINS AND FURANS (ng/L)**												
94	87	**Method 8290**												
95	88	2,3,7,8-TCDF	3.8	U	NA		NA		NA		NA		NA	
96	89	Total TCDF	3.8	U	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	3.5	U	NA		NA		NA		NA		NA	
98	91	Total TCDD	3.5	U	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	2.8	U	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	2.6	U	NA		NA		NA		NA		NA	
101	94	Total PeCDF	2.6	U	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	3.2	U	NA		NA		NA		NA		NA	
103	96	Total PeCDD	3.2	U	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	2.3	U	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	2.1	U	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	2.3	U	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	2.5	U	NA		NA		NA		NA		NA	
108	101	Total HxCDF	**9.2**		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	2.9	U	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	2.2	U	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	2.5	U	NA		NA		NA		NA		NA	
112	105	Total HxCDD	2.2	U	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	**7.5**	J	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	3.8	U	NA		NA		NA		NA		NA	
115	108	Total HpCDF	**34**		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	**36**		NA		NA		NA		NA		NA	
117	110	Total HpCDD	**57**		NA		NA		NA		NA		NA	
118	111	OCDF	**35**	J	NA		NA		NA		NA		NA	
119	112	OCDD	**230**		NA		NA		NA		NA		NA	
120														
121		**ETHANOL (mg/L)**							NA		NA		NA	
122														

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2					Dup of OX8S									
3			OX8S		Y		OX8S		OX8S		OX8S		OX8S	
4			FY72E		FY72D		0402086-04		0406074-08		0408026-09		0411066-06	
5			10/22/03		10/22/03		2/18/04		6/10/04		8/04/04		11/11/04	
123		**PAHs (µg/L)**												
124		**EPA Method SW8270 SIM**												
125		Naphthalene	NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		1	U	NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		1	U	NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			OX9S	
4			0408035-02	
5			8/05/04	
7	1	**CHLORINATED PHENOLS (µg/L)**		
8	2	**EPA Method SW8040**		
9	3	Pentachlorophenol	NA	
10	4	2,4,6-Trichlorophenol	NA	
11	5	2,3,6-Trichlorophenol	NA	
12	6	2,4,5-Trichlorophenol	NA	
13	7	2,3,4-Trichlorophenol	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	9	2,3,4,5-Tetrachlorophenol	NA	
16	10			
17	11	**SEMIVOLATILES (µg/L)**		
18	12	**EPA Method SW8270**		
19	13	Phenol	2	U
20	14	4-Methylphenol	10	U
21	15	Isophorone	1	U
22	16	2,4-Dimethylphenol	3	U
23	17	Benzoic Acid	20	U
24	18	Naphthalene	1	U
25	19	2-Methylnaphthalene	1	U
26	20	2,4,6-Trichlorophenol	5	U
27	21	2,4,5-Trichlorophenol	5	U
28	22	Acenaphthene	1	U
29	23	Dibenzofuran	1	U
30	24	Fluorene	1	U
31	25	Pentachlorophenol	5	U
32	26	bis(2-Ethylhexyl)phthalate	1	U
33	27			
34	28	**VOLATILES (µg/L)**		
35	29	**EPA Method SW8260**		
36	30	Acetone	50	U
37	31	Carbon Disulfide	2	U
38	32	2-Butanone	10	U
39	33	Benzene	0.3	U
40	34	Bromoform	1	U
41	35	Toluene	1	U
42	36	Ethylbenzene	1	U
43	37	Styrene	1	U
44	38	m,p-Xylene	2	U
45	39	o-Xylene	1	U
46	40	1,3,5-Trimethylbenzene	1	U
47	41	1,2,4-Trimethylbenzene	1	U
48	42	Isopropylbenzene	1	U
49	43	n-Propylbenzene	1	U
50	44	tert-Butylbenzene	1	U
51	45	sec-Butylbenzene	1	U
52	46	4-Isopropyltoluene	1	U
53	47	n-Butylbenzene	1	U
54	48	Naphthalene	1	U
55	48.5	Methyl tert-butyl ether	1	U
56	49			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	51	**Method OR-DEQ**		
59	52	**TPH-Diesel**	NA	
60	53	**TPH-D Motor Oil**	NA	
61	54	**TPH-Gasoline**	NA	
62	55			
63	56	**PRIORITY POLLUTANT**		
64	57	**METALS (mg/L)**		
65	58	Arsenic (7060)	**0.0044**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			OX9S	
4			0408035-02	
5			8/05/04	
66	59	Chromium (6010)	**0.0156**	
67	60	Copper (6010)	0.01	U
68	61	Lead (7421)	0.0001	U
69	62	Nickel (6010)	0.005	U
70	63	Zinc (6010)	0.01	U
71	64			
72	65	**MAJOR IONS AND CONVENTIONALS**		
73	66	Calcium (mg/L) (6010)	NA	
74	67	Magnesium (mg/L) (6010)	NA	
75	68	Potassium (mg/L) (6010)	NA	
76	69	Sodium (mg/L) (6010)	NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**201**	
81	74	Chloride (mg/L) (EPA 325.2)	**3.56**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA	
86	79			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			OX9S	
4			0408035-02	
5			8/05/04	
87	80	**FIELD PARAMETERS**		
88	81	pH (avg)	5.83	
89	82	Temperature (° C) (avg)	15.5	
90	83	Conductivity (um/hos)	365	
91	84	Dissolved oxygen (mg/L) (avg)	2.33	
92	85			
93	86	**DIOXINS AND FURANS (ng/L)**		
94	87	**Method 8290**		
95	88	2,3,7,8-TCDF	NA	
96	89	Total TCDF	NA	
97	90	2,3,7,8-TCDD	NA	
98	91	Total TCDD	NA	
99	92	1,2,3,7,8-PeCDF	NA	
100	93	2,3,4,7,8-PeCDF	NA	
101	94	Total PeCDF	NA	
102	95	1,2,3,7,8-PeCDD	NA	
103	96	Total PeCDD	NA	
104	97	1,2,3,4,7,8-HxCDF	NA	
105	98	1,2,3,6,7,8-HxCDF	NA	
106	99	2,3,4,6,7,8-HxCDF	NA	
107	100	1,2,3,7,8,9-HxCDF	NA	
108	101	Total HxCDF	NA	
109	102	1,2,3,4,7,8-HxCDD	NA	
110	103	1,2,3,6,7,8-HxCDD	NA	
111	104	1,2,3,7,8,9-HxCDD	NA	
112	105	Total HxCDD	NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	
115	108	Total HpCDF	NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	
117	110	Total HpCDD	NA	
118	111	OCDF	NA	
119	112	OCDD	NA	
120				
121		**ETHANOL (mg/L)**	NA	
122				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			OX9S	
4			0408035-02	
5			8/05/04	
123		**PAHs (µg/L)**		
124		**EPA Method SW8270 SIM**		
125		Naphthalene	NA	
126		2-Methylnaphthalene	NA	
127		Acenaphthylene	1	U
128		Acenaphthene	NA	
129		Fluorene	NA	
130		Anthracene	1	U
131		Dibenzofuran	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			PZ1		PZ1	
4			EM65E		FF48K	
5			6/24/02		2/10/03	
7	1	**CHLORINATED PHENOLS (µg/L)**				
8	2	**EPA Method SW8040**				
9	3	Pentachlorophenol	NA		**700**	
10	4	2,4,6-Trichlorophenol	NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA	
16	10					
17	11	**SEMIVOLATILES (µg/L)**				
18	12	**EPA Method SW8270**				
19	13	Phenol	NA		NA	
20	14	4-Methylphenol	NA		NA	
21	15	Isophorone	NA		NA	
22	16	2,4-Dimethylphenol	NA		NA	
23	17	Benzoic Acid	NA		NA	
24	18	Naphthalene	NA		NA	
25	19	2-Methylnaphthalene	NA		NA	
26	20	2,4,6-Trichlorophenol	NA		NA	
27	21	2,4,5-Trichlorophenol	NA		NA	
28	22	Acenaphthene	NA		NA	
29	23	Dibenzofuran	NA		NA	
30	24	Fluorene	NA		NA	
31	25	Pentachlorophenol	NA		NA	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA	
33	27					
34	28	**VOLATILES (µg/L)**				
35	29	**EPA Method SW8260**				
36	30	Acetone	250	U	NA	
37	31	Carbon Disulfide	50	U	NA	
38	32	2-Butanone	250	U	NA	
39	33	Benzene	50	U	NA	
40	34	Bromoform	50	U	NA	
41	35	Toluene	**80**		NA	
42	36	Ethylbenzene	**470**		NA	
43	37	Styrene	50	U	NA	
44	38	m,p-Xylene	**1000**		NA	
45	39	o-Xylene	**710**		NA	
46	40	1,3,5-Trimethylbenzene	**290**		NA	
47	41	1,2,4-Trimethylbenzene	**870**		NA	
48	42	Isopropylbenzene	**120**		NA	
49	43	n-Propylbenzene	**170**		NA	
50	44	tert-Butylbenzene	50	U	NA	
51	45	sec-Butylbenzene	50	U	NA	
52	46	4-Isopropyltoluene	50	U	NA	
53	47	n-Butylbenzene	50	U	NA	
54	48	Naphthalene	250	U	NA	
55	48.5	Methyl tert-butyl ether	NA		NA	
56	49					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**				
58	51	**Method OR-DEQ**				
59	52	**TPH-Diesel**	NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA	
61	54	**TPH-Gasoline**	NA		NA	
62	55					
63	56	**PRIORITY POLLUTANT**				
64	57	**METALS (mg/L)**				
65	58	Arsenic (7060)	**0.005**		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			PZ1		PZ1	
4			EM65E		FF48K	
5			6/24/02		2/10/03	
66	59	Chromium (6010)	**0.035**		NA	
67	60	Copper (6010)	**0.011**		NA	
68	61	Lead (7421)	**0.001**		NA	
69	62	Nickel (6010)	**0.04**		NA	
70	63	Zinc (6010)	**0.087**		NA	
71	64					
72	65	**MAJOR IONS AND CONVENTIONALS**				
73	66	Calcium (mg/L) (6010)	**42.3**		NA	
74	67	Magnesium (mg/L) (6010)	**13.6**		NA	
75	68	Potassium (mg/L) (6010)	**3.3**		NA	
76	69	Sodium (mg/L) (6010)	**5.25**		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**180**		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**180**		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**250**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA	
86	79					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			PZ1		PZ1	
4			EM65E		FF48K	
5			6/24/02		2/10/03	
87	80	**FIELD PARAMETERS**				
88	81	pH (avg)	6.02		6.61	
89	82	Temperature (° C) (avg)	15.3		14.9	
90	83	Conductivity (um/hos)	278		376	
91	84	Dissolved oxygen (mg/L) (avg)	5.09		1.01	
92	85					
93	86	**DIOXINS AND FURANS (ng/L)**				
94	87	**Method 8290**				
95	88	2,3,7,8-TCDF	NA		NA	
96	89	Total TCDF	NA		NA	
97	90	2,3,7,8-TCDD	NA		NA	
98	91	Total TCDD	NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA	
101	94	Total PeCDF	NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA	
103	96	Total PeCDD	NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA	
108	101	Total HxCDF	NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA	
112	105	Total HxCDD	NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA	
115	108	Total HpCDF	NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA	
117	110	Total HpCDD	NA		NA	
118	111	OCDF	NA		NA	
119	112	OCDD	NA		NA	
120						
121		**ETHANOL (mg/L)**	NA		NA	
122						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			PZ1		PZ1	
4			EM65E		FF48K	
5			6/24/02		2/10/03	
123		**PAHs (µg/L)**				
124		**EPA Method SW8270 SIM**				
125		Naphthalene	NA		NA	
126		2-Methylnaphthalene	NA		NA	
127		Acenaphthylene	NA		NA	
128		Acenaphthene	NA		NA	
129		Fluorene	NA		NA	
130		Anthracene	NA		NA	
131		Dibenzofuran	NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ2	
4			FF48J	
5			2/10/03	
7	1	**CHLORINATED PHENOLS (µg/L)**		
8	2	**EPA Method SW8040**		
9	3	Pentachlorophenol	**590**	
10	4	2,4,6-Trichlorophenol	NA	
11	5	2,3,6-Trichlorophenol	NA	
12	6	2,4,5-Trichlorophenol	NA	
13	7	2,3,4-Trichlorophenol	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	9	2,3,4,5-Tetrachlorophenol	NA	
16	10			
17	11	**SEMIVOLATILES (µg/L)**		
18	12	**EPA Method SW8270**		
19	13	Phenol	NA	
20	14	4-Methylphenol	NA	
21	15	Isophorone	NA	
22	16	2,4-Dimethylphenol	NA	
23	17	Benzoic Acid	NA	
24	18	Naphthalene	NA	
25	19	2-Methylnaphthalene	NA	
26	20	2,4,6-Trichlorophenol	NA	
27	21	2,4,5-Trichlorophenol	NA	
28	22	Acenaphthene	NA	
29	23	Dibenzofuran	NA	
30	24	Fluorene	NA	
31	25	Pentachlorophenol	NA	
32	26	bis(2-Ethylhexyl)phthalate	NA	
33	27			
34	28	**VOLATILES (µg/L)**		
35	29	**EPA Method SW8260**		
36	30	Acetone	NA	
37	31	Carbon Disulfide	NA	
38	32	2-Butanone	NA	
39	33	Benzene	NA	
40	34	Bromoform	NA	
41	35	Toluene	NA	
42	36	Ethylbenzene	NA	
43	37	Styrene	NA	
44	38	m,p-Xylene	NA	
45	39	o-Xylene	NA	
46	40	1,3,5-Trimethylbenzene	NA	
47	41	1,2,4-Trimethylbenzene	NA	
48	42	Isopropylbenzene	NA	
49	43	n-Propylbenzene	NA	
50	44	tert-Butylbenzene	NA	
51	45	sec-Butylbenzene	NA	
52	46	4-Isopropyltoluene	NA	
53	47	n-Butylbenzene	NA	
54	48	Naphthalene	NA	
55	48.5	Methyl tert-butyl ether	NA	
56	49			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	51	**Method OR-DEQ**		
59	52	**TPH-Diesel**	NA	
60	53	**TPH-D Motor Oil**	NA	
61	54	**TPH-Gasoline**	NA	
62	55			
63	56	**PRIORITY POLLUTANT**		
64	57	**METALS (mg/L)**		
65	58	Arsenic (7060)	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ2	
4			FF48J	
5			2/10/03	
66	59	Chromium (6010)	NA	
67	60	Copper (6010)	NA	
68	61	Lead (7421)	NA	
69	62	Nickel (6010)	NA	
70	63	Zinc (6010)	NA	
71	64			
72	65	**MAJOR IONS AND CONVENTIONALS**		
73	66	Calcium (mg/L) (6010)	NA	
74	67	Magnesium (mg/L) (6010)	NA	
75	68	Potassium (mg/L) (6010)	NA	
76	69	Sodium (mg/L) (6010)	NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA	
86	79			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ2	
4			FF48J	
5			2/10/03	
87	80	**FIELD PARAMETERS**		
88	81	pH (avg)	6.46	
89	82	Temperature (° C) (avg)	15.2	
90	83	Conductivity (um/hos)	483	
91	84	Dissolved oxygen (mg/L) (avg)	0.89	
92	85			
93	86	**DIOXINS AND FURANS (ng/L)**		
94	87	**Method 8290**		
95	88	2,3,7,8-TCDF	NA	
96	89	Total TCDF	NA	
97	90	2,3,7,8-TCDD	NA	
98	91	Total TCDD	NA	
99	92	1,2,3,7,8-PeCDF	NA	
100	93	2,3,4,7,8-PeCDF	NA	
101	94	Total PeCDF	NA	
102	95	1,2,3,7,8-PeCDD	NA	
103	96	Total PeCDD	NA	
104	97	1,2,3,4,7,8-HxCDF	NA	
105	98	1,2,3,6,7,8-HxCDF	NA	
106	99	2,3,4,6,7,8-HxCDF	NA	
107	100	1,2,3,7,8,9-HxCDF	NA	
108	101	Total HxCDF	NA	
109	102	1,2,3,4,7,8-HxCDD	NA	
110	103	1,2,3,6,7,8-HxCDD	NA	
111	104	1,2,3,7,8,9-HxCDD	NA	
112	105	Total HxCDD	NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	
115	108	Total HpCDF	NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	
117	110	Total HpCDD	NA	
118	111	OCDF	NA	
119	112	OCDD	NA	
120				
121		**ETHANOL (mg/L)**	NA	
122				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ2	
4			FF48J	
5			2/10/03	
123		**PAHs (µg/L)**		
124		**EPA Method SW8270 SIM**		
125		Naphthalene	NA	
126		2-Methylnaphthalene	NA	
127		Acenaphthylene	NA	
128		Acenaphthene	NA	
129		Fluorene	NA	
130		Anthracene	NA	
131		Dibenzofuran	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ3	
4			FF65B	
5			2/11/03	
7	1	**CHLORINATED PHENOLS (µg/L)**		
8	2	**EPA Method SW8040**		
9	3	Pentachlorophenol	1.2	U
10	4	2,4,6-Trichlorophenol	NA	
11	5	2,3,6-Trichlorophenol	NA	
12	6	2,4,5-Trichlorophenol	NA	
13	7	2,3,4-Trichlorophenol	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	9	2,3,4,5-Tetrachlorophenol	NA	
16	10			
17	11	**SEMIVOLATILES (µg/L)**		
18	12	**EPA Method SW8270**		
19	13	Phenol	NA	
20	14	4-Methylphenol	NA	
21	15	Isophorone	NA	
22	16	2,4-Dimethylphenol	NA	
23	17	Benzoic Acid	NA	
24	18	Naphthalene	NA	
25	19	2-Methylnaphthalene	NA	
26	20	2,4,6-Trichlorophenol	NA	
27	21	2,4,5-Trichlorophenol	NA	
28	22	Acenaphthene	NA	
29	23	Dibenzofuran	NA	
30	24	Fluorene	NA	
31	25	Pentachlorophenol	NA	
32	26	bis(2-Ethylhexyl)phthalate	NA	
33	27			
34	28	**VOLATILES (µg/L)**		
35	29	**EPA Method SW8260**		
36	30	Acetone	NA	
37	31	Carbon Disulfide	NA	
38	32	2-Butanone	NA	
39	33	Benzene	NA	
40	34	Bromoform	NA	
41	35	Toluene	NA	
42	36	Ethylbenzene	NA	
43	37	Styrene	NA	
44	38	m,p-Xylene	NA	
45	39	o-Xylene	NA	
46	40	1,3,5-Trimethylbenzene	NA	
47	41	1,2,4-Trimethylbenzene	NA	
48	42	Isopropylbenzene	NA	
49	43	n-Propylbenzene	NA	
50	44	tert-Butylbenzene	NA	
51	45	sec-Butylbenzene	NA	
52	46	4-Isopropyltoluene	NA	
53	47	n-Butylbenzene	NA	
54	48	Naphthalene	NA	
55	48.5	Methyl tert-butyl ether	NA	
56	49			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	51	**Method OR-DEQ**		
59	52	**TPH-Diesel**	NA	
60	53	**TPH-D Motor Oil**	NA	
61	54	**TPH-Gasoline**	NA	
62	55			
63	56	**PRIORITY POLLUTANT**		
64	57	**METALS (mg/L)**		
65	58	Arsenic (7060)	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ3	
4			FF65B	
5			2/11/03	
66	59	Chromium (6010)	NA	
67	60	Copper (6010)	NA	
68	61	Lead (7421)	NA	
69	62	Nickel (6010)	NA	
70	63	Zinc (6010)	NA	
71	64			
72	65	**MAJOR IONS AND CONVENTIONALS**		
73	66	Calcium (mg/L) (6010)	NA	
74	67	Magnesium (mg/L) (6010)	NA	
75	68	Potassium (mg/L) (6010)	NA	
76	69	Sodium (mg/L) (6010)	NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA	
86	79			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ3	
4			FF65B	
5			2/11/03	
87	80	**FIELD PARAMETERS**		
88	81	pH (avg)	5.24	
89	82	Temperature (° C) (avg)	15.7	
90	83	Conductivity (um/hos)	62	
91	84	Dissolved oxygen (mg/L) (avg)	1.66	
92	85			
93	86	**DIOXINS AND FURANS (ng/L)**		
94	87	**Method 8290**		
95	88	2,3,7,8-TCDF	NA	
96	89	Total TCDF	NA	
97	90	2,3,7,8-TCDD	NA	
98	91	Total TCDD	NA	
99	92	1,2,3,7,8-PeCDF	NA	
100	93	2,3,4,7,8-PeCDF	NA	
101	94	Total PeCDF	NA	
102	95	1,2,3,7,8-PeCDD	NA	
103	96	Total PeCDD	NA	
104	97	1,2,3,4,7,8-HxCDF	NA	
105	98	1,2,3,6,7,8-HxCDF	NA	
106	99	2,3,4,6,7,8-HxCDF	NA	
107	100	1,2,3,7,8,9-HxCDF	NA	
108	101	Total HxCDF	NA	
109	102	1,2,3,4,7,8-HxCDD	NA	
110	103	1,2,3,6,7,8-HxCDD	NA	
111	104	1,2,3,7,8,9-HxCDD	NA	
112	105	Total HxCDD	NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	
115	108	Total HpCDF	NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	
117	110	Total HpCDD	NA	
118	111	OCDF	NA	
119	112	OCDD	NA	
120				
121		**ETHANOL (mg/L)**	NA	
122				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			PZ3	
4			FF65B	
5			2/11/03	
123		**PAHs (µg/L)**		
124		**EPA Method SW8270 SIM**		
125		Naphthalene	NA	
126		2-Methylnaphthalene	NA	
127		Acenaphthylene	NA	
128		Acenaphthene	NA	
129		Fluorene	NA	
130		Anthracene	NA	
131		Dibenzofuran	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			Q	
4			0408056-05	
5			8/09/04	
7	1	**CHLORINATED PHENOLS (µg/L)**		
8	2	**EPA Method SW8040**		
9	3	Pentachlorophenol	NA	
10	4	2,4,6-Trichlorophenol	NA	
11	5	2,3,6-Trichlorophenol	NA	
12	6	2,4,5-Trichlorophenol	NA	
13	7	2,3,4-Trichlorophenol	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	9	2,3,4,5-Tetrachlorophenol	NA	
16	10			
17	11	**SEMIVOLATILES (µg/L)**		
18	12	**EPA Method SW8270**		
19	13	Phenol	**10.7**	
20	14	4-Methylphenol	10.3	U
21	15	Isophorone	1.03	U
22	16	2,4-Dimethylphenol	3.09	U
23	17	Benzoic Acid	20.6	U
24	18	Naphthalene	1.03	U
25	19	2-Methylnaphthalene	**19.8**	
26	20	2,4,6-Trichlorophenol	5.15	U
27	21	2,4,5-Trichlorophenol	5.15	U
28	22	Acenaphthene	**6.46**	
29	23	Dibenzofuran	**3.79**	
30	24	Fluorene	**4.97**	
31	25	Pentachlorophenol	5.15	U
32	26	bis(2-Ethylhexyl)phthalate	1.03	U
33	27			
34	28	**VOLATILES (µg/L)**		
35	29	**EPA Method SW8260**		
36	30	Acetone	50	U
37	31	Carbon Disulfide	2	U
38	32	2-Butanone	10	U
39	33	Benzene	**1030**	
40	34	Bromoform	1	U
41	35	Toluene	**21.2**	
42	36	Ethylbenzene	**12.1**	
43	37	Styrene	1	U
44	38	m,p-Xylene	**27.4**	
45	39	o-Xylene	**8.17**	
46	40	1,3,5-Trimethylbenzene	**3.73**	
47	41	1,2,4-Trimethylbenzene	**3.47**	
48	42	Isopropylbenzene	**78.4**	
49	43	n-Propylbenzene	**116**	
50	44	tert-Butylbenzene	1	U
51	45	sec-Butylbenzene	**8.81**	
52	46	4-Isopropyltoluene	1	U
53	47	n-Butylbenzene	**9.01**	
54	48	Naphthalene	1	U
55	48.5	Methyl tert-butyl ether	1	U
56	49			
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	51	**Method OR-DEQ**		
59	52	**TPH-Diesel**	**5.56**	
60	53	**TPH-D Motor Oil**	0.495	U
61	54	**TPH-Gasoline**	**2.88**	
62	55			
63	56	**PRIORITY POLLUTANT**		
64	57	**METALS (mg/L)**		
65	58	Arsenic (7060)	**0.034**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			Q	
4			0408056-05	
5			8/09/04	
66	59	Chromium (6010)	**0.017**	
67	60	Copper (6010)	0.01	U
68	61	Lead (7421)	**0.00735**	
69	62	Nickel (6010)	0.005	U
70	63	Zinc (6010)	0.01	U
71	64			
72	65	**MAJOR IONS AND CONVENTIONALS**		
73	66	Calcium (mg/L) (6010)	NA	
74	67	Magnesium (mg/L) (6010)	NA	
75	68	Potassium (mg/L) (6010)	NA	
76	69	Sodium (mg/L) (6010)	NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**338**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.1**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA	
86	79			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			Q	
4			0408056-05	
5			8/09/04	
87	80	**FIELD PARAMETERS**		
88	81	pH (avg)	6.16	
89	82	Temperature (° C) (avg)	15.8	
90	83	Conductivity (um/hos)	692	
91	84	Dissolved oxygen (mg/L) (avg)	3.72	
92	85			
93	86	**DIOXINS AND FURANS (ng/L)**		
94	87	**Method 8290**		
95	88	2,3,7,8-TCDF	NA	
96	89	Total TCDF	NA	
97	90	2,3,7,8-TCDD	NA	
98	91	Total TCDD	NA	
99	92	1,2,3,7,8-PeCDF	NA	
100	93	2,3,4,7,8-PeCDF	NA	
101	94	Total PeCDF	NA	
102	95	1,2,3,7,8-PeCDD	NA	
103	96	Total PeCDD	NA	
104	97	1,2,3,4,7,8-HxCDF	NA	
105	98	1,2,3,6,7,8-HxCDF	NA	
106	99	2,3,4,6,7,8-HxCDF	NA	
107	100	1,2,3,7,8,9-HxCDF	NA	
108	101	Total HxCDF	NA	
109	102	1,2,3,4,7,8-HxCDD	NA	
110	103	1,2,3,6,7,8-HxCDD	NA	
111	104	1,2,3,7,8,9-HxCDD	NA	
112	105	Total HxCDD	NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA	
115	108	Total HpCDF	NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA	
117	110	Total HpCDD	NA	
118	111	OCDF	NA	
119	112	OCDD	NA	
120				
121		**ETHANOL (mg/L)**	NA	
122				

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D
1				
2				
3			Q	
4			0408056-05	
5			8/09/04	
123		**PAHs (µg/L)**		
124		**EPA Method SW8270 SIM**		
125		Naphthalene	**0.398**	
126		2-Methylnaphthalene	NA	
127		Acenaphthylene	**0.239**	
128		Acenaphthene	**5.04**	
129		Fluorene	**3.81**	
130		Anthracene	**0.259**	
131		Dibenzofuran	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																	Dup of RW1						Dup of RW1			
3			RW1		RW1		RW1		RW1		RW1		RW1		RW1		W		RW1		RW1		W		RW1	
4			AH76F		AU36E		BC21U		BH96X		BR64O		CB68G		CK77B		CK77A		CT67K		DE87Q		DE87M		DM30G	
5			5/20/99		9/21/99		12/7/99		2/16/00		5/25/00		8/30/00		11/7/00		11/7/00		2/15/01		6/6/01		6/6/01		8/13/01	
7	1	**CHLORINATED PHENOLS (µg/L)**																								
8	2	**EPA Method SW8040**																								
9	3	Pentachlorophenol	**130**		**3100**		**3400**		**6400**		**11000**		**6300**		**3400**		**3400**		**11000**	J	NA		NA		NA	
10	4	2,4,6-Trichlorophenol	**0.22**	J1	**0.77**		**1.7**		**3.1**		**2.4**		**2.3**		**1.1**		**1.1**		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	**0.12**	J1	0.25	U	**0.33**		**0.54**		0.53	U	**0.53**		0.44	U	0.48	U	NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	3.1	U	14	U	20	U	3.0	U	6.2	U	22	U	30	U	32	U	NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.27	U	0.25	U	0.25	U	0.25	U	**0.79**		0.25	U	0.25	U	NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**48**		**250**		**620**		**530**		**580**		**1100**		**630**		**640**		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	**1.1**		**7.3**		**9.3**		**9.3**		**21**		**24**		**16**		**16**		NA		NA		NA		NA	
16	10																									
17	11	**SEMIVOLATILES (µg/L)**																								
18	12	**EPA Method SW8270**																								
19	13	Phenol	2.0	U	**5.7**		**4.0**		**6.5**		2.0	U	**15**		**8.2**	J2	**14**	J2	**60**		**12**		**12**		**32**	
20	14	4-Methylphenol	1.0	U	**1.4**		2.0	U	**7.0**		1.0	U	**1.6**	M	1.0	U	1.0	U	**16**		**1.7**		**1.8**		**2.1**	
21	15	Isophorone	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	6.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	20	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
24	18	Naphthalene	1.0	U	**2.5**		**4.2**		**2.8**		**12**		**12**		**7.1**		**5.8**		**13**		**9.3**		**9.8**		**2.7**	
25	19	2-Methylnaphthalene	1.0	U	1.0	U	2.0	U	1.0	U	**2.0**		**3.4**		**2.2**		**1.7**		**5.2**		**3.7**		**4.0**		1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	10	U	5.0	U	**6.2**		**6.8**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	**35**		5.0	U	5.0	U	5.0	U	**40**		**31**		**17**		**13**		**13**		**6.9**	
28	22	Acenaphthene	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	**150**		**3100**		**4100**		**2800**		**7300**		**5400**		**4000**		**3900**		**1400**	J	**1900**		**2000**		**410**	
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	**1.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
33	27																									
34	28	**VOLATILES (µg/L)**																								
35	29	**EPA Method SW8260**																								
36	30	Acetone	5.0	U	5.0	U	**30**		5.0	U	**39**	M	30	U	**16**		**14**		**28**		**13**		**13**		**7.2**	M
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	6.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	**7.9**		**29**		**47**		**80**		25	U	30	U	**7.4**	J2	**41**	J2	5.0	U	**5.7**		**6.4**		**5.6**	
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	6.0	U	**1.0**		1.0	U	**9.0**		**3.4**		**3.4**		**11**	
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	6.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	**6.6**		**1.8**		**1.1**		**20**		**14**		**9.1**		**8.2**		**18**		**14**		**15**		**18**	
42	36	Ethylbenzene	**1.3**		**51**		**34**		**31**		**130**		**120**		**96**		**86**		**80**		**71**		**72**		**82**	
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	6.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	**1.6**		**52**		**23**		**32**		**170**		**150**		**92**		**82**		**160**		**140**		**140**		**200**	
45	39	o-Xylene	**1.6**		**130**		**71**		**73**		**250**		**240**		**160**		**150**		**110**		**100**		**100**		**120**	
46	40	1,3,5-Trimethylbenzene	1.0	U	**41**		**12**		**38**		**120**		**64**		**29**		**25**		**58**		**37**		**38**		**40**	
47	41	1,2,4-Trimethylbenzene	**2.2**		**160**		**75**		**170**		**500**		**320**		**240**		**250**		**160**		**160**		**160**		**150**	
48	42	Isopropylbenzene	**3.5**		**36**		**23**		**21**		**58**		**47**		**26**		**21**		**28**		**28**		**28**		**29**	
49	43	n-Propylbenzene	**1.5**		**37**		**24**		**35**		**82**		**61**		**36**		**31**		**45**		**34**		**36**		**36**	
50	44	tert-Butylbenzene	1.0	U	**2.6**		**1.6**		**2.0**	M	5.0	U	6.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
51	45	sec-Butylbenzene	**3.2**		**17**		**8.6**		**14**		**21**		**16**		**11**		**10**		**10**		**7.7**		**7.8**		**6.8**	
52	46	4-Isopropyltoluene	1.0	U	1.0	U	**1.6**		**7.2**		**13**		**8.6**		**5.2**		**4.6**		**5.9**		**4.1**		**4.2**		**3.8**	
53	47	n-Butylbenzene	1.0	U	**4.7**		2.3	U	**5.8**	M	5.0	U	7.7	U	**6.0**		**6.0**		**9.2**	M	6.0	U	6.2	U	4.8	U
54	48	Naphthalene	5.0	U	**7.1**		**7.3**		**8.9**		25	U	30	U	**11**		**12**		**29**		**25**		**28**		**14**	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																									
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	51	**Method OR-DEQ**																								
59	52	**TPH-Diesel**	**1.0**		**7.5**		**5.7**		**5.1**		**12**		**13**		**6.4**		**5.7**		**4.1**		**4.9**		**4.5**		**4.3**	
60	53	**TPH-D Motor Oil**	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	2.0	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
61	54	**TPH-Gasoline**	**0.63**		**6.6**		**5.1**		**4.5**		**29**		**26**		**9.7**		**9.9**		**7.1**		**5.4**		**5.3**		**7.7**	
62	55																									
63	56	**PRIORITY POLLUTANT**																								
64	57	**METALS (mg/L)**																								
65	58	Arsenic (7060)	**0.002**		**0.005**		**0.006**		**0.004**		**0.004**		**0.006**		**0.006**		**0.006**		**0.007**		**0.007**		**0.007**		**0.008**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX
2				Dup of RW1						Dup of RW1										Dup of RW1					
3		RW1		X		RW1		RW1		X		RW1		RW1		RW1		RW1		X		RW1		RW1	
4		DW37D		DW37A		ED34A		EM66B		EM66A		ER93J		EZ17H		FF65D		FL41L		FL41P		FU50C		FY72J	
5		11/28/01		11/28/01		2/28/02		6/24/02		6/24/02		08/27/02		11/13/02		2/11/03		5/7/03		5/7/03		8/29/03		10/22/03	
7	**CHLORINATED PHENOLS (µg/L)**																								
8	**EPA Method SW8040**																								
9	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																									
17	**SEMIVOLATILES (µg/L)**																								
18	**EPA Method SW8270**																								
19	Phenol	**2.1**		2.0	U	**66**		**57**	J	**76**	J	**16**		**10**		**8.9**		2.1	U	2	U	**24**		**3.7**	M
20	4-Methylphenol	1.0	U	1.0	U	**4.6**		**21**		**25**		**5.4**		1.2	U	**6.9**		1	U	1	U	**5.3**		1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1	U	1	U	1	U	1	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	**53**		3.5	U	**3.8**		3.1	U	3.1	U	13	U	6.4	U
23	Benzoic Acid	50	U	50	U	50	U	50	U	50	U	54	U	58	U	50	U	52	U	51	U	50	U	10	U
24	Naphthalene	**13**		**12**		**6.9**		**11**	J	**15**	J	**16**		**8.6**		**14**		**3.7**		**3.7**		**9**		**5.1**	
25	2-Methylnaphthalene	**3.7**		**3.3**		**2.3**		**5.1**		**6.1**		**6**		**4.4**		**6.5**		**1.6**		**1.6**		**2.8**		1	U
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.4	U	5.8	U	5	U	5.2	U	5.1	U	**13**		5.1	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	**5.8**	M	**20**		5.8	U	**9.2**	M	5.2	U	5.1	U	**20**		**33**	
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1	U	1	U	1	U	1	U	1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1	U	1	U	1	U	1	U	1	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.2	U	1	U	1	U	1	U	1	U	1	U
31	Pentachlorophenol	**17**		**17**		**1200**		**880**	J	**1100**	J	**2600**		**5400**		**2800**		**1700**		**1600**		**1400**		**350**	
32	bis(2-Ethylhexyl)phthalate	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.3	U	4.7	U	1	U	**9.8**	J	**3.3**	J	1	U	1	U
33																									
34	**VOLATILES (µg/L)**																								
35	**EPA Method SW8260**																								
36	Acetone	**8.4**		**7.6**		**110**	J	50	U	48	U	15	U	5	U	**16**	M	**20**		**24**	M	**26**	MJ	**15**	M
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	3	U	1	U	1	U	1	U	1	U	1	U	1	U
38	2-Butanone	**30**		**30**	M	**47**	J	15	U	**16**	J	**32**	M	5	U	5	U	5	U	5	U	5	U	**46**	M
39	Benzene	**24**		**23**		**1.9**	J	3.0	U	3.0	U	**4.8**		**22**		**12**		**1**		**2**		**4.9**	J	**4.9**	
40	Bromoform	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	3	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	**5.7**		**5.3**		**12**	J	**16**		**14**	J	**15**		**13**		1	U	1	U	1	U	**3**	J	1	U
42	Ethylbenzene	**74**		**74**		**81**	J	**140**		**120**	J	**120**		**130**		**57**		**14**	J	**37**	J	**68**	J	**64**	
43	Styrene	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	3	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	**270**		**280**		**97**	J	**310**		**250**	J	**230**		**160**		**41**		**12**	J	**34**	J	**90**	J	**62**	
45	o-Xylene	**87**		**87**		**170**	J	**220**		**190**	J	**200**		**200**		**73**		**25**	J	**66**		**120**	J	**90**	
46	1,3,5-Trimethylbenzene	**53**		**52**		**40**	J	**100**		**100**	J	**97**		**87**		**19**		**9.8**	J	**30**	J	**67**	J	**31**	
47	1,2,4-Trimethylbenzene	**200**		**200**		**170**	J	**370**		**310**	J	**380**		**410**		**110**		**64**	J	**160**	J	**230**		**170**	
48	Isopropylbenzene	**26**		**26**		**29**	J	**42**		**47**	J	**53**		**60**		**20**		**12**	J	**24**	J	**42**	J	**34**	
49	n-Propylbenzene	**32**		**31**		**34**	J	**63**		**64**	J	**72**		**80**		**29**		**14**	J	**32**	J	**52**	J	**40**	
50	tert-Butylbenzene	1.0	U	1.0	U	**1.8**	J	3.0	U	3.0	U	3	U	**3**		**1**		**1.7**		**2.3**		**3.1**	J	**2**	
51	sec-Butylbenzene	1.0	U	1.0	U	**8.9**	J	3.0	U	3.0	U	3	U	**16**		**5.5**		**5.7**	J	**9.3**	J	**17**	J	**11**	
52	4-Isopropyltoluene	**5.5**		**5.4**		4.5	U	**9.3**		**8.8**	J	**11**		**9.5**		**2.6**		**1.2**	J	**6.2**	J	**6.9**	J	**3.6**	
53	n-Butylbenzene	**4.7**	M	**4.7**	M	**6.8**	J	10	U	8.2	U	**14**	M	**9**		**4**	M	**2.2**	MJ	**4.5**	J	**7.3**	MJ	**4.7**	M
54	Naphthalene	**24**		**22**		**21**	J	**19**		**20**	J	**45**		**19**		**19**		5	U	**10**		**19**	J	**13**	
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																									
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	**Method OR-DEQ**																								
59	**TPH-Diesel**	**4.7**		**5.0**		**4.9**		**6.8**	J	**17**	J	**9.4**		**13**		**6.8**		**5.1**		**5.4**		**8.1**		**5.8**	
60	**TPH-D Motor Oil**	2.0	U	0.50	U	0.50	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
61	**TPH-Gasoline**	**5.2**		**5.3**		12		**13**		**14**		**14**		**18**		**6.9**		**5.2**	J	**6.7**	J	**8.2**		**7**	
62																									
63	**PRIORITY POLLUTANT**																								
64	**METALS (mg/L)**																								
65	Arsenic (7060)	**0.009**		**0.008**		**0.008**		**0.006**		**0.006**		**0.008**		0.05	U	**0.004**		**0.005**		**0.005**		**0.006**		**0.005**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
2				Dup of RW1							
3		RW1		W		RW1		RW1		RW1	
4		0402086-10		0402113-05		0406074-10		0408025-01		0411066-11	
5		2/18/04		2/23/04		6/10/04		8/04/04		11/11/04	
7	**CHLORINATED PHENOLS (µg/L)**										
8	**EPA Method SW8040**										
9	Pentachlorophenol	NA		NA		NA		NA		**123**	
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16											
17	**SEMIVOLATILES (µg/L)**										
18	**EPA Method SW8270**										
19	Phenol	1.96	U	1.96	U	1.9	U	2	U	2.01	U
20	4-Methylphenol	9.8	U	9.78	U	9.49	U	10	U	10.1	U
21	Isophorone	0.98	U	0.978	U	0.949	U	1	U	1.01	U
22	2,4-Dimethylphenol	2.94	U	2.93	U	2.85	U	3	U	3.02	U
23	Benzoic Acid	19.6	U	19.6	U	19	U	20	U	20.1	U
24	Naphthalene	**15.6**		**3.63**		**8.1**		**7.35**		**3.61**	
25	2-Methylnaphthalene	**6.33**		**10.4**		**4.13**		**1.84**		**1.02**	
26	2,4,6-Trichlorophenol	**14.8**		4.89	U	4.74	U	**19.9**		**23.4**	
27	2,4,5-Trichlorophenol	4.9	U	4.89	U	4.74	U	5	U	5.03	U
28	Acenaphthene	0.98	U	0.978	U	0.949	U	1	U	1.01	U
29	Dibenzofuran	0.98	U	0.978	U	0.949	U	1	U	1.01	U
30	Fluorene	0.98	U	0.978	U	0.949	U	1	U	1.01	U
31	Pentachlorophenol	**2630**		**8.69**		**903**		**160**		NA	
32	bis(2-Ethylhexyl)phthalate	0.98	U	0.978	U	0.949	U	1	U	1.01	U
33											
34	**VOLATILES (µg/L)**										
35	**EPA Method SW8260**										
36	Acetone	50	U	50	U	50	U	50	U	50	U
37	Carbon Disulfide	2	U	2	U	2	U	2	U	2	U
38	2-Butanone	10	U	10	U	10	U	10	U	10	U
39	Benzene	**7.42**		**5.96**		**6.78**		**8.67**	J	**6.12**	
40	Bromoform	1	U	1	U	1	U	1	U	1	U
41	Toluene	1	U	1	U	1	U	**1.6**	J	1	U
42	Ethylbenzene	**106**		**11.9**		**90.7**		**192**	J	**31.8**	
43	Styrene	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	**45.6**		**5.89**		**110**		**299**	J	**40.3**	
45	o-Xylene	**142**		**2.22**		**130**		**294**	J	**47.8**	
46	1,3,5-Trimethylbenzene	**55.2**		**20.8**		**66.6**		**83.8**	J	**22.5**	
47	1,2,4-Trimethylbenzene	**180**		**67.9**		**226**		**349**	J	**84.4**	
48	Isopropylbenzene	**43.9**		**40.8**		**35.7**		**75.2**	J	**17**	
49	n-Propylbenzene	**57.2**		**61.9**		**57.3**		**58**	J	**17.2**	
50	tert-Butylbenzene	**1.15**		1	U	**1.95**		**2.29**	J	**1.8**	
51	sec-Butylbenzene	**12.9**		**8.99**		**10.5**		**12.3**	J	**4.37**	
52	4-Isopropyltoluene	**5.2**		**2.19**		**5.98**		**6.33**	J	**2.08**	
53	n-Butylbenzene	**5.52**		**5.23**		**4.07**		**3.86**	J	**2**	
54	Naphthalene	**27.6**		**4.49**		**16.7**		**17.6**	J	**13**	
55	Methyl tert-butyl ether	NA		1	U	1	U	1	U	1	U
56											
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	**Method OR-DEQ**										
59	**TPH-Diesel**	**11.2**	J	**1.08**		NA		**6.12**		NA	
60	**TPH-D Motor Oil**	**1.22**	J	0.492	U	NA		0.51	U	NA	
61	**TPH-Gasoline**	**6.3**		**2.4**		NA		**5.48**		NA	
62											
63	**PRIORITY POLLUTANT**										
64	**METALS (mg/L)**										
65	Arsenic (7060)	**0.004**		**0.021**		**0.012**		**0.006**		**0.00526**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																	Dup of RW1						Dup of RW1			
3			RW1		RW1		RW1		RW1		RW1		RW1		RW1		W		RW1		RW1		W		RW1	
4			AH76F		AU36E		BC21U		BH96X		BR64O		CB68G		CK77B		CK77A		CT67K		DE87Q		DE87M		DM30G	
5			5/20/99		9/21/99		12/7/99		2/16/00		5/25/00		8/30/00		11/7/00		11/7/00		2/15/01		6/6/01		6/6/01		8/13/01	
66	59	Chromium (6010)	0.005	U	0.005	U	**0.007**		**0.011**		0.005	U	0.005	U	**0.015**		**0.010**		0.005	U	0.005	U	0.005	U	0.005	U
67	60	Copper (6010)	**0.018**		**0.003**		**0.013**		**0.024**		**0.005**		0.002	U	**0.020**	J2	**0.016**	J2	0.002	U	0.002	U	0.002	U	0.002	U
68	61	Lead (7421)	**0.003**		0.001	U	**0.004**		**0.005**		0.001	U	0.001	U	**0.006**		**0.004**		0.001	U	0.001	U	0.001	U	0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	**0.02**		0.01	U	0.01	U	**0.01**		**0.01**		0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	**0.020**		0.004	U	**0.028**		**0.046**		0.006	U	0.006	U	**0.054**		**0.048**		**0.017**		0.006	U	0.006	U	0.006	U
71	64																									
72	65	**MAJOR IONS AND CONVENTIONALS**																								
73	66	Calcium (mg/L) (6010)	**37.3**		NA		NA		NA		NA		NA		NA		NA		**49.1**		**36.1**		**37.3**		**45.3**	
74	67	Magnesium (mg/L) (6010)	**11.7**		NA		NA		NA		NA		NA		NA		NA		**15.2**		**11.9**		**12.2**		**15.2**	
75	68	Potassium (mg/L) (6010)	**4.0**		NA		NA		NA		NA		NA		NA		NA		**4.0**		**2.8**		**3.4**		**3.5**	
76	69	Sodium (mg/L) (6010)	**6.03**		NA		NA		NA		NA		NA		NA		NA		**6.67**		**6.01**		**5.59**		**6.62**	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**140**		NA		NA		NA		NA		NA		NA		NA		**230**		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	NA		NA		NA		NA		NA		NA		NA		1.0	U	NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**140**		NA		NA		NA		NA		NA		NA		NA		**230**		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**180**		**210**		**170**		**200**		**350**		**240**		**220**		**230**		**320**		**220**	J	**220**	J	**220**	J
81	74	Chloride (mg/L) (EPA 325.2)	**2.9**		**3.8**		**6.7**		**12**		**4.2**		**13**		**7.3**		**6.2**		**5.9**	J	**4.7**		**5.1**		**7.6**	
82	75	N-Nitrate (mg-N/L) (Calculated)	0.010	U	NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	NA		NA		NA		NA		NA		NA		NA		**0.023**	J	NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	0.010	U	NA		NA		NA		NA		NA		NA		NA		**0.030**		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	**3.8**		NA		NA		NA		NA		NA		NA		NA		**3.0**		NA		NA		NA	
86	79																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX
1																									
2				Dup of RW1						Dup of RW1										Dup of RW1					
3		RW1		X		RW1		RW1		X		RW1		RW1		RW1		RW1		X		RW1		RW1	
4		DW37D		DW37A		ED34A		EM66B		EM66A		ER93J		EZ17H		FF65D		FL41L		FL41P		FU50C		FY72J	
5		11/28/01		11/28/01		2/28/02		6/24/02		6/24/02		08/27/02		11/13/02		2/11/03		5/7/03		5/7/03		8/29/03		10/22/03	
66	Chromium (6010)	**0.008**	J	**0.014**	J	**0.015**		0.005	U	0.005	U	0.005	U	**0.013**		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	**0.008**	J	**0.013**	J	**0.028**		**0.005**		**0.006**		**0.004**		**0.018**		**0.006**		**0.004**		**0.005**		**0.003**		**0.005**	
68	Lead (7421)	**0.002**	J	**0.004**	J	**0.006**		**0.001**		0.001	U	**0.001**		0.02	U	0.001	U	0.001	U	**0.001**		0.001	U	0.001	U
69	Nickel (6010)	0.01	U	**0.01**		**0.02**		0.01	U	0.01	U	0.01	U	**0.02**		**0.11**		0.01	U	**0.01**		0.01	U	0.01	U
70	Zinc (6010)	**0.026**	J	**0.038**	J	**0.054**		**0.016**		**0.020**		0.006	U	**0.055**		**0.008**		**0.065**	J	**0.013**	J	**0.009**		**0.01**	
71																									
72	**MAJOR IONS AND CONVENTIONALS**																								
73	Calcium (mg/L) (6010)	**58.7**	J	**65.4**	J	**152**		NA		NA		NA		NA		**31.7**		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	**19.5**	J	**21.8**	J	**51.9**		NA		NA		NA		NA		**10.6**		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	**4.2**		**5.1**		**6.7**		NA		NA		NA		NA		**3.6**		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	**8.18**		**9.48**		**12.0**		NA		NA		NA		NA		**7.9**		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		**480**		NA		NA		NA		NA		**130**		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		1.0	U	NA		NA		NA		NA		1	U	NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		**480**		NA		NA		NA		NA		**130**		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**290**		**280**		**1100**		**1900**		**2000**		**230**		**260**		**230**		**240**		**240**		**320**		**320**	
81	Chloride (mg/L) (EPA 325.2)	**8.4**		**8.3**		**11**		**8.8**		**8.0**		**6.4**		**7.0**		**5.4**		**6**		**6**		**5.9**		**7.8**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		**0.044**		NA		NA		NA		NA		**0.043**		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		0.010	U	NA		NA		NA		NA		**0.043**		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		**0.044**		NA		NA		NA		NA		**0.086**		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		**5.7**		NA		NA		NA		NA		**46**		NA		NA		NA		NA	
86																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
1											
2				Dup of RW1							
3		RW1		W		RW1		RW1		RW1	
4		0402086-10		0402113-05		0406074-10		0408025-01		0411066-11	
5		2/18/04		2/23/04		6/10/04		8/04/04		11/11/04	
66	Chromium (6010)	**0.0093**		**0.0077**		**0.0382**		0.005	U	**0.0244**	
67	Copper (6010)	**0.0172**		0.01	U	**0.0286**		0.01	U	0.01	U
68	Lead (7421)	**0.0005**		0.0001	U	**0.0082**		**0.000111**		**0.00434**	
69	Nickel (6010)	0.005	U	0.005	U	**0.0199**		0.005	U	0.005	U
70	Zinc (6010)	0.01	U	0.01	U	**0.102**		**0.0244**		**0.0394**	
71											
72	**MAJOR IONS AND CONVENTIONALS**										
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**242**		**239**		**472**		**495**		**437**	
81	Chloride (mg/L) (EPA 325.2)	**4.79**		**3.95**		**6.59**		**4.89**		**5.55**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																	Dup of RW1						Dup of RW1			
3			RW1		RW1		RW1		RW1		RW1		RW1		RW1		W		RW1		RW1		W		RW1	
4			AH76F		AU36E		BC21U		BH96X		BR64O		CB68G		CK77B		CK77A		CT67K		DE87Q		DE87M		DM30G	
5			5/20/99		9/21/99		12/7/99		2/16/00		5/25/00		8/30/00		11/7/00		11/7/00		2/15/01		6/6/01		6/6/01		8/13/01	
87	80	**FIELD PARAMETERS**																								
88	81	pH (avg)	6.54		6.14		6.18		6.44		6.46		5.69		5.28		5.27		6.35		6.62		6.61		6.54	
89	82	Temperature (° C) (avg)	14.0		17.3		17.2		14.6		13.2		14.8		14.2		14.1		12.7		14.4		14.4		16.4	
90	83	Conductivity (um/hos)	244		271		273		211		440		314		305		303		506		377		377		389	
91	84	Dissolved oxygen (mg/L) (avg)	1.52		2.09		1.72		0.76		1.00		0.87		0.69		0.72		0.32		0.97		0.94		1.10	
92	85																									
93	86	**DIOXINS AND FURANS (ng/L)**																								
94	87	**Method 8290**																								
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																										
121		**ETHANOL (mg/L)**	NA		NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		NA	
122																										

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX
1																									
2				Dup of RW1						Dup of RW1										Dup of RW1					
3		RW1		X		RW1		RW1		X		RW1		RW1		RW1		RW1		X		RW1		RW1	
4		DW37D		DW37A		ED34A		EM66B		EM66A		ER93J		EZ17H		FF65D		FL41L		FL41P		FU50C		FY72J	
5		11/28/01		11/28/01		2/28/02		6/24/02		6/24/02		08/27/02		11/13/02		2/11/03		5/7/03		5/7/03		8/29/03		10/22/03	
87	**FIELD PARAMETERS**																								
88	pH (avg)	6.51		6.5		6.15		6.16		6.14		6.71		6.03		6.4		6.82		6.84		6.65		6.73	
89	Temperature (° C) (avg)	13.7		13.5		12.8		15.6		15.6		15.6		17.3		15.3		14.2		14.2		15.4		17.5	
90	Conductivity (um/hos)	584		583		878		803		805		291		394		366		308		308		430		415	
91	Dissolved oxygen (mg/L) (avg)	3.36		3.43		7.27		3.86		3.54		0.00		0.00		0		1.79		1.75		1.59		2.65	
92																									
93	**DIOXINS AND FURANS (ng/L)**																								
94	**Method 8290**																								
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		3.0	U
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		3.0	U
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		4.1	U
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.4	U
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.9	U
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.7	U
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.7	U
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.9	U
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**6.5**	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.2	U
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1.9	U
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.1	U
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.3	U
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**20.2**	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.8	U
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		3.0	U
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		2.4	U
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**19.9**	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**18.1**	J
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		4.3	U
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**86**	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**125**	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**211**	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**119**	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		**1226**	
120																									
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																									

BZTO104(e)022390

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
2				Dup of RW1							
3		RW1		W		RW1		RW1		RW1	
4		0402086-10		0402113-05		0406074-10		0408025-01		0411066-11	
5		2/18/04		2/23/04		6/10/04		8/04/04		11/11/04	
87	**FIELD PARAMETERS**										
88	pH (avg)	6.68		6.34		6.35		6.04		6.44	
89	Temperature (° C) (avg)	13.8		14.3		16.3		17		16	
90	Conductivity (um/hos)	343		345		575		750		546	
91	Dissolved oxygen (mg/L) (avg)	1.35		1.32		2.42		2.29		1.53	
92											
93	**DIOXINS AND FURANS (ng/L)**										
94	**Method 8290**										
95	2,3,7,8-TCDF	NA		NA		0.001172	U	0.002108	U	0.000947	UJ
96	Total TCDF	NA		NA		**0.01243**		**0.016418**		**0.007227**	
97	2,3,7,8-TCDD	NA		NA		0.001296	U	0.00189	U	0.000371	UJ
98	Total TCDD	NA		NA		0.001296	U	0.00189	U	**0.012783**	
99	1,2,3,7,8-PeCDF	NA		NA		**0.002537**	J	0.005954	UJ	0.000584	U
100	2,3,4,7,8-PeCDF	NA		NA		0.000886	U	0.001846	U	0.000546	U
101	Total PeCDF	NA		NA		**0.008505**		**0.009166**		**0.013908**	
102	1,2,3,7,8-PeCDD	NA		NA		0.001184	U	0.002557	U	0.000674	U
103	Total PeCDD	NA		NA		0.001184	U	0.002557	U	**0.018875**	
104	1,2,3,4,7,8-HxCDF	NA		NA		0.000811	U	**0.005188**	J	0.00212	UJ
105	1,2,3,6,7,8-HxCDF	NA		NA		0.000804	U	0.005326	UJ	0.001554	UJ
106	2,3,4,6,7,8-HxCDF	NA		NA		0.000882	U	0.002058	U	**0.001781**	J
107	1,2,3,7,8,9-HxCDF	NA		NA		0.000982	U	0.002386	U	0.000289	U
108	Total HxCDF	NA		NA		0.000804	U	**0.018357**		**0.06799**	
109	1,2,3,4,7,8-HxCDD	NA		NA		0.001465	U	0.002938	U	0.000437	U
110	1,2,3,6,7,8-HxCDD	NA		NA		0.001233	U	0.002518	U	**0.006886**	J
111	1,2,3,7,8,9-HxCDD	NA		NA		0.001245	U	0.002694	U	0.001768	UJ
112	Total HxCDD	NA		NA		0.001233	U	**0.011911**		**0.099208**	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		0.001827	U	0.005138	UJ	**0.044978**	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		0.002484	U	**0.011046**	J	**0.003391**	J
115	Total HpCDF	NA		NA		**0.001856**		**0.031417**		**0.19351**	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		**0.003583**	J	**0.031308**		**0.278831**	J
117	Total HpCDD	NA		NA		**0.006947**		**0.061732**		**0.493796**	
118	OCDF	NA		NA		0.006121	UJ	**0.029711**	J	**0.237755**	
119	OCDD	NA		NA		0.036956	U	**0.429978**		**2.58707**	
120											
121	**ETHANOL (mg/L)**	NA		NA		NA		NA		NA	
122											

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																	Dup of RW1						Dup of RW1			
3			RW1		RW1		RW1		RW1		RW1		RW1		RW1		W		RW1		RW1		W		RW1	
4			AH76F		AU36E		BC21U		BH96X		BR64O		CB68G		CK77B		CK77A		CT67K		DE87Q		DE87M		DM30G	
5			5/20/99		9/21/99		12/7/99		2/16/00		5/25/00		8/30/00		11/7/00		11/7/00		2/15/01		6/6/01		6/6/01		8/13/01	
123		**PAHs (µg/L)**																								
124		**EPA Method SW8270 SIM**																								
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX
1																									
2				Dup of RW1						Dup of RW1										Dup of RW1					
3		RW1		X		RW1		RW1		X		RW1		RW1		RW1		RW1		X		RW1		RW1	
4		DW37D		DW37A		ED34A		EM66B		EM66A		ER93J		EZ17H		FF65D		FL41L		FL41P		FU50C		FY72J	
5		11/28/01		11/28/01		2/28/02		6/24/02		6/24/02		08/27/02		11/13/02		2/11/03		5/7/03		5/7/03		8/29/03		10/22/03	
123	**PAHs (µg/L)**																								
124	**EPA Method SW8270 SIM**																								
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
1											
2				Dup of RW1							
3		RW1		W		RW1		RW1		RW1	
4		0402086-10		0402113-05		0406074-10		0408025-01		0411066-11	
5		2/18/04		2/23/04		6/10/04		8/04/04		11/11/04	
123	**PAHs (µg/L)**										
124	**EPA Method SW8270 SIM**										
125	Naphthalene	NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		1	U	NA	
128	Acenaphthene	NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		1	U	NA	
131	Dibenzofuran	NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			RW3		RW3	
4			BC30H		9912050-07A	
5			12/8/99		12/8/1999 (d)	
7	1	**CHLORINATED PHENOLS (µg/L)**				
8	2	**EPA Method SW8040**				
9	3	Pentachlorophenol	**590**		NA	
10	4	2,4,6-Trichlorophenol	**0.19**	J1	NA	
11	5	2,3,6-Trichlorophenol	**0.13**	J1	NA	
12	6	2,4,5-Trichlorophenol	0.25	U	NA	
13	7	2,3,4-Trichlorophenol	0.25	U	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**110**		NA	
15	9	2,3,4,5-Tetrachlorophenol	**3.0**		NA	
16	10					
17	11	**SEMIVOLATILES (µg/L)**				
18	12	**EPA Method SW8270**				
19	13	Phenol	2.0	U	NA	
20	14	4-Methylphenol	1.0	U	NA	
21	15	Isophorone	1.0	U	NA	
22	16	2,4-Dimethylphenol	3.0	U	NA	
23	17	Benzoic Acid	10	U	NA	
24	18	Naphthalene	**14**		NA	
25	19	2-Methylnaphthalene	1.0	U	NA	
26	20	2,4,6-Trichlorophenol	5.0	U	NA	
27	21	2,4,5-Trichlorophenol	5.0	U	NA	
28	22	Acenaphthene	1.0	U	NA	
29	23	Dibenzofuran	1.0	U	NA	
30	24	Fluorene	1.0	U	NA	
31	25	Pentachlorophenol	**720**		NA	
32	26	bis(2-Ethylhexyl)phthalate	**1.4**		NA	
33	27					
34	28	**VOLATILES (µg/L)**				
35	29	**EPA Method SW8260**				
36	30	Acetone	5.0	U	NA	
37	31	Carbon Disulfide	1.0	U	NA	
38	32	2-Butanone	**9.1**		NA	
39	33	Benzene	1.0	U	NA	
40	34	Bromoform	1.0	U	NA	
41	35	Toluene	1.0	U	NA	
42	36	Ethylbenzene	**8.3**		NA	
43	37	Styrene	1.0	U	NA	
44	38	m,p-Xylene	**12**		NA	
45	39	o-Xylene	**34**		NA	
46	40	1,3,5-Trimethylbenzene	**57**		NA	
47	41	1,2,4-Trimethylbenzene	**160**		NA	
48	42	Isopropylbenzene	**10**		NA	
49	43	n-Propylbenzene	**19**		NA	
50	44	tert-Butylbenzene	1.0	U	NA	
51	45	sec-Butylbenzene	**9.2**		NA	
52	46	4-Isopropyltoluene	**9.8**		NA	
53	47	n-Butylbenzene	8.9	U	NA	
54	48	Naphthalene	**15**		NA	
55	48.5	Methyl tert-butyl ether	NA		NA	
56	49					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**				
58	51	**Method OR-DEQ**				
59	52	**TPH-Diesel**	**3.5**		NA	
60	53	**TPH-D Motor Oil**	0.50	U	NA	
61	54	**TPH-Gasoline**	**2.5**		NA	
62	55					
63	56	**PRIORITY POLLUTANT**				
64	57	**METALS (mg/L)**				
65	58	Arsenic (7060)	**0.014**		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			RW3		RW3	
4			BC30H		9912050-07A	
5			12/8/99		12/8/1999 (d)	
66	59	Chromium (6010)	0.005	U	NA	
67	60	Copper (6010)	0.002	U	NA	
68	61	Lead (7421)	0.001	U	NA	
69	62	Nickel (6010)	0.01	U	NA	
70	63	Zinc (6010)	0.006	U	NA	
71	64					
72	65	**MAJOR IONS AND CONVENTIONALS**				
73	66	Calcium (mg/L) (6010)	NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**150**		NA	
81	74	Chloride (mg/L) (EPA 325.2)	**3.9**		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA	
86	79					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			RW3		RW3	
4			BC30H		9912050-07A	
5			12/8/99		12/8/1999 (d)	
87	80	**FIELD PARAMETERS**				
88	81	pH (avg)	6.52		NM	
89	82	Temperature (° C) (avg)	12.9		NM	
90	83	Conductivity (um/hos)	231		NM	
91	84	Dissolved oxygen (mg/L) (avg)	1.76		NM	
92	85					
93	86	**DIOXINS AND FURANS (ng/L)**				
94	87	**Method 8290**				
95	88	2,3,7,8-TCDF	NA		NA	
96	89	Total TCDF	NA		NA	
97	90	2,3,7,8-TCDD	NA		NA	
98	91	Total TCDD	NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA	
101	94	Total PeCDF	NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA	
103	96	Total PeCDD	NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA	
108	101	Total HxCDF	NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA	
112	105	Total HxCDD	NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA	
115	108	Total HpCDF	NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA	
117	110	Total HpCDD	NA		NA	
118	111	OCDF	NA		NA	
119	112	OCDD	NA		NA	
120						
121		**ETHANOL (mg/L)**	5.0	U	10	U
122						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			RW3		RW3	
4			BC30H		9912050-07A	
5			12/8/99		12/8/1999 (d)	
123		**PAHs (µg/L)**				
124		**EPA Method SW8270 SIM**				
125		Naphthalene	NA		NA	
126		2-Methylnaphthalene	NA		NA	
127		Acenaphthylene	NA		NA	
128		Acenaphthene	NA		NA	
129		Fluorene	NA		NA	
130		Anthracene	NA		NA	
131		Dibenzofuran	NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																						
2									Dup of LW2S													
3			LW2S		LW2S		LW2S		LW2D		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S	
4			S177G		T176C		U235M		U235E		V224N		W391A		Y336G		Z225A		Z960Q		AH27F	
5			4/2/97		7/15/97		10/22/97		10/22/97		1/29/98		5/19/98		8/19/98		11/13/98		2/18/99		5/17/99	
7	1	**CHLORINATED PHENOLS (µg/L)**																				
8	2	**EPA Method SW8040**																				
9	3	Pentachlorophenol	**2600**		**2900**		**4400**		**4800**		**7600**		**8500**		**5000**		**3800**		**6000**		**560**	
10	4	2,4,6-Trichlorophenol	**0.46**		0.43	U	0.34	U	0.38	U	**0.56**		**0.57**		**0.34**		**0.34**		0.46		0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
12	6	2,4,5-Trichlorophenol	0.86	U	0.25	U	0.49	U	0.51	U	0.25	U	**0.57**		**0.61**		0.25	U	0.60	U	0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.13**	J1	**0.18**	J1	0.25	U	0.25	U	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**150**		**150**		**190**		**190**		**290**		**370**		**180**		**130**		**300**		**20**	
15	9	2,3,4,5-Tetrachlorophenol	**2.5**		**3.4**		**4.8**		**4.7**		**4.4**		**6.6**		**8.6**		**2.8**		**3.2**		**1.1**	
16	10																					
17	11	**SEMIVOLATILES (µg/L)**																				
18	12	**EPA Method SW8270**																				
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
24	18	Naphthalene	**5.5**		**2.3**		**20**		**17**		**13**		**10**	J2	**13**		**14**		**8.4**		1.0	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	**3900**		**3000**		**6000**		**7300**		**7900**		**7300**		**4200**		**4100**		**5400**		**500**	
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	**1.9**		1.0	U	1.0	U	**12**		1.0	U	1.0	U	**1.6**		**1.3**	
33	27																					
34	28	**VOLATILES (µg/L)**																				
35	29	**EPA Method SW8260**																				
36	30	Acetone	10	U	5.0	U	6.9		45	U	5.0	U	**7.4**		5.0	U	**35**		15	U	5.0	U
37	31	Carbon Disulfide	2.0	U	1.0	U	1.0	U	9.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U
38	32	2-Butanone	10	U	5.0	U	5.0	U	45	U	5.0	U	5.0	U	5.0	U	**7.4**		15	U	**9.4**	
39	33	Benzene	2.0	U	1.0	U	1.0	U	9.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U
40	34	Bromoform	2.0	U	1.0	U	1.0	U	9.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U
41	35	Toluene	2.0	U	**2.0**		**1.1**		9.0	U	1.0	U	1.0	U	**1.4**		**1.3**		3.0	U	1.0	U
42	36	Ethylbenzene	**5.7**		**11**		**32**		**32**		**17**		**5.1**		**9.7**		**12**		**11**		**2.0**	
43	37	Styrene	2.0	U	1.0	U	1.0	U	9.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U
44	38	m,p-Xylene	**13**		**16**		**37**		**36**		**32**		**12**		**17**		**24**		**18**		**2.6**	
45	39	o-Xylene	**23**		**35**		**91**		**92**		**63**		**23**		**39**		**61**		**42**		**6.9**	
46	40	1,3,5-Trimethylbenzene	**53**		**49**		**130**		**110**		**80**		**34**		**54**		**62**		**93**		**8.7**	
47	41	1,2,4-Trimethylbenzene	**210**		**200**		**640**	J2	**790**	J2	**490**		**160**		**180**		**280**		**330**		**44**	
48	42	Isopropylbenzene	**7.5**		**14**		**62**	J2	**49**	J2	**19**		**6.4**		**10**		**12**		**16**		**2.2**	
49	43	n-Propylbenzene	**16**		**26**		**110**		**90**		**38**		**15**		**21**		**22**		**35**		**4.8**	
50	44	tert-Butylbenzene	2.0	U	**1.8**	MJ	**5.7**		9.0	U	**2.7**		1.0	U	1.0	U	1.0	U	3.0		1.0	U
51	45	sec-Butylbenzene	**7.6**		**11**		**40**	J2	**27**	J2	**22**		**8.2**		**12**	J2	**12**		**15**		**2.9**	
52	46	4-Isopropyltoluene	**9.6**		**9.6**		**31**	J2	**22**	J2	**21**		**9.1**		**12**		**12**		**12**		**2.0**	
53	47	n-Butylbenzene	**8.5**		**8.4**	M	**29**	J2	**18**	J2	**16**		**7.7**		**10**		**10**		**12**		**1.9**	
54	48	Naphthalene	**12.0**		**14**		**75**	J2	**58**	J2	**31**		**14**		**19**		**18**		**22**		5.0	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																				
58	51	**Method OR-DEQ**																				
59	52	**TPH-Diesel**	**4.4**		**5.0**		**11**		**11**		**10**		**5.6**		**5.2**		**5.0**		**6.2**		**1.1**	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																					
63	56	**PRIORITY POLLUTANT**																				
64	57	**METALS (mg/L)**																				
65	58	Arsenic (7060)	**0.008**		**0.012**		0.05	U	0.05	U	0.05	U	**0.011**		**0.011**		**0.017**		**0.007**		**0.005**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
3		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S	
4		AU22G		BC27H		9912050-04A		BH75F		BR64C		CB49I		CK77I		CT55G		DE68C		DM52I		DW48K		ED23E	
5		9/20/99		12/8/99		12/8/1999 (d)		2/15/00		5/24/00		8/29/00		11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/26/02	
7	**CHLORINATED PHENOLS (µg/L)**																								
8	**EPA Method SW8040**																								
9	Pentachlorophenol	**1500**		**1300**		NA		**2100**		**1000**		**720**		**1100**		**650**	J	NA		NA		NA		NA	
10	2,4,6-Trichlorophenol	**0.16**	J1	**0.12**	J1	NA		**0.42**		0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	0.57	U	0.33	U	NA		0.37	U	0.25	U	0.74	U	0.33	U	NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**47**		**36**		NA		**84**		**28**		**28**		**47**		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	**2.2**		**1.6**		NA		**2.2**		**2.1**		**1.0**		**1.5**		NA		NA		NA		NA		NA	
16																									
17	**SEMIVOLATILES (µg/L)**																								
18	**EPA Method SW8270**																								
19	Phenol	2.0	U	2.0	U	NA		2.0	U	2.0	U	2.0	U	**2.4**	J2	2.0	U	2.0	U	2.0	U	**2.8**		2.0	U
20	4-Methylphenol	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**3.0**		1.0	U
21	Isophorone	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	NA		3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	Benzoic Acid	10	U	10	U	NA		10	U	10	U	10	U	10	U	10	U	10	U	10	U	30	U	50	U
24	Naphthalene	**4.3**		**36**		NA		**8.2**		**5.2**		**1.4**		**9.2**		**12**		**21**		**6.8**		**14**		1.0	U
25	2-Methylnaphthalene	1.0	U	**1.2**		NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	Acenaphthene	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	Dibenzofuran	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	Fluorene	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	Pentachlorophenol	**1600**		**1800**		NA		**2100**		**1300**	J2	**200**		**1500**		**1200**	J	**1300**		**700**		**8000**		**320**	
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	**1.4**		1.0	U	1.0	U	**1.5**		4.0	U
33																									
34	**VOLATILES (µg/L)**																								
35	**EPA Method SW8260**																								
36	Acetone	5.0	U	**29**		NA		5.0	U	5.0	U	5.0	U	**27**			R	**33**		**20**		**39**		5.0	U
37	Carbon Disulfide	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	3.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	2-Butanone	**28**		**6.7**	M	NA		**32**		**22**		5.0	U	15	U	10	U	34	U	**32**		5.0	U	**5.2**	
39	Benzene	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	3.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U
40	Bromoform	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	3.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	Toluene	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	3.0	U	2.0	U	**1.1**		1.0	U	1.0	U	1.0	U
42	Ethylbenzene	**6.3**		**22**		NA		**11**		**5.3**		**1.6**		**11**		**9.7**		**26**		1.0	U	**15**		1.0	U
43	Styrene	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	3.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	m,p-Xylene	**11**		**18**		NA		**18**		**9.9**		**3.0**		**15**		**18**		**36**		**14**		**35**		**1.2**	
45	o-Xylene	**29**		**97**		NA		**45**		**25**		**8.1**		**36**		**49**		**87**		**36**		**84**		**3.0**	
46	1,3,5-Trimethylbenzene	**45**		**80**		NA		**69**		**38**		**16**		**47**		**61**		**94**		**34**		**130**		**5.7**	
47	1,2,4-Trimethylbenzene	**120**		**540**		NA		**330**		**160**		**66**		**250**		**320**		**490**		**200**		**420**		**25**	
48	Isopropylbenzene	**7.0**		**38**		NA		**23**		**7.3**		**2.2**		**9.1**		**19**		**32**		**13**		**16**		1.0	U
49	n-Propylbenzene	**15**		**60**		NA		**48**		**16**		**5.8**		**20**		**36**		**67**		**28**		**32**		**2.0**	
50	tert-Butylbenzene	1.0	U	1.0	U	NA		3.1	U	**1.2**		1.0	U	3.0	U	**3.2**		1.0	U	1.0	U	**68**		1.0	U
51	sec-Butylbenzene	**8.0**		**27**		NA		**24**		**8.2**		**3.9**		**9.3**		**20**		**30**		**15**		1.0	U	**1.4**	
52	4-Isopropyltoluene	**8.8**		**20**		NA		**15**		**7.4**		**3.8**		**8.5**		**17**		**25**		**13**		**22**		**1.5**	
53	n-Butylbenzene	**7.0**		15	U	NA		17	U	**6.5**	M	**3.7**	M	**9.5**		**15**	M	**21**		**12**	M	**18**		**1.2**	
54	Naphthalene	**16**		**54**		NA		**26**		**10**		5.0	U	**27**		**23**		**60**		**28**		**54**		5.0	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																									
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	**Method OR-DEQ**																								
59	**TPH-Diesel**	**2.3**		**9.4**		NA		**5.5**		**3.5**		**1.8**		**4.0**		**9.1**		**9.4**		**5.4**		10		**1.5**	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																									
63	**PRIORITY POLLUTANT**																								
64	**METALS (mg/L)**																								
65	Arsenic (7060)	**0.008**		**0.011**		NA		**0.011**		**0.011**		**0.011**		**0.017**		**0.013**		**0.018**		**0.019**		**0.013**		**0.015**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AU	AV
1			
2			
3		LW2S	
4		EM85F	
5		6/26/02	
7	**CHLORINATED PHENOLS (µg/L)**		
8	**EPA Method SW8040**		
9	Pentachlorophenol	NA	
10	2,4,6-Trichlorophenol	NA	
11	2,3,6-Trichlorophenol	NA	
12	2,4,5-Trichlorophenol	NA	
13	2,3,4-Trichlorophenol	NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	2,3,4,5-Tetrachlorophenol	NA	
16			
17	**SEMIVOLATILES (µg/L)**		
18	**EPA Method SW8270**		
19	Phenol	2.0	U
20	4-Methylphenol	1.0	U
21	Isophorone	1.0	U
22	2,4-Dimethylphenol	3.0	U
23	Benzoic Acid	50	U
24	Naphthalene	**6.2**	
25	2-Methylnaphthalene	1.0	U
26	2,4,6-Trichlorophenol	5.0	U
27	2,4,5-Trichlorophenol	5.0	U
28	Acenaphthene	1.0	U
29	Dibenzofuran	1.0	U
30	Fluorene	1.0	U
31	Pentachlorophenol	**950**	
32	bis(2-Ethylhexyl)phthalate	4.0	U
33			
34	**VOLATILES (µg/L)**		
35	**EPA Method SW8260**		
36	Acetone	**8.2**	
37	Carbon Disulfide	1.0	U
38	2-Butanone	**13**	
39	Benzene	1.0	U
40	Bromoform	1.0	U
41	Toluene	1.0	U
42	Ethylbenzene	**4.7**	
43	Styrene	1.0	U
44	m,p-Xylene	**7.3**	
45	o-Xylene	**18**	
46	1,3,5-Trimethylbenzene	**24**	
47	1,2,4-Trimethylbenzene	**110**	
48	Isopropylbenzene	**6.8**	
49	n-Propylbenzene	**14**	
50	tert-Butylbenzene	1.0	U
51	sec-Butylbenzene	**7.5**	
52	4-Isopropyltoluene	**6.6**	
53	n-Butylbenzene	5.7	U
54	Naphthalene	**11**	
55	Methyl tert-butyl ether	NA	
56			
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	**Method OR-DEQ**		
59	**TPH-Diesel**	**2.8**	
60	**TPH-D Motor Oil**	NA	
61	**TPH-Gasoline**	NA	
62			
63	**PRIORITY POLLUTANT**		
64	**METALS (mg/L)**		
65	Arsenic (7060)	**0.014**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																						
2									Dup of LW2S													
3			LW2S		LW2S		LW2S		LW2D		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S	
4			S177G		T176C		U235M		U235E		V224N		W391A		Y336G		Z225A		Z960Q		AH27F	
5			4/2/97		7/15/97		10/22/97		10/22/97		1/29/98		5/19/98		8/19/98		11/13/98		2/18/99		5/17/99	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.006**		0.005	U
67	60	Copper (6010)	0.002	U	**0.002**		0.002	U	0.002	U	0.002	U	0.002	U	**0.002**		0.002	U	**0.007**		0.002	U
68	61	Lead (7421)	0.001	U	**0.001**		0.02	U	0.02	U	0.02	U	0.001	U	**0.007**		0.001	U	**0.004**		0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	**0.004**		**0.006**	J2	**0.007**		**0.004**		**0.004**		**0.004**	J2	**0.098**		**0.006**		**0.026**		0.005	U
71	64																					
72	65	**MAJOR IONS AND CONVENTIONALS**																				
73	66	Calcium (mg/L) (6010)	NA		NA		**18.4**		**18.2**		**9.13**		NA		NA		NA		**7.23**		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		**5.15**		**5.12**		**2.30**		NA		NA		NA		**2.52**		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		**2.8**		**2.8**		**1.6**		NA		NA		NA		**1.9**		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		**4.77**		**4.74**		**2.54**		NA		NA		NA		**3.69**		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		**62**		**61**		**52**		NA		NA		NA		**25**		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		**62**		**61**		**52**		NA		NA		NA		**25**		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**170**	J2	**130**		**140**		**66**		160		140		220		**76**		**160**	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		**15**		**15**		**1.9**		3.9		4.6		26		**1.9**		**1.8**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		**0.023**		**0.017**		0.010	UJ	NA		NA		NA		**0.040**		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		0.010	U	0.010	U	0.010	UJ	NA		NA		NA		**0.016**		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		**0.023**		**0.017**		0.010	UJ	NA		NA		NA		**0.056**		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		**5.3**		**5.9**		**6.5**		NA		NA		NA		**9.4**		NA	
86	79																					

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
3		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S	
4		AU22G		BC27H		9912050-04A		BH75F		BR64C		CB49I		CK77I		CT55G		DE68C		DM52I		DW48K		ED23E	
5		9/20/99		12/8/99		12/8/1999 (d)		2/15/00		5/24/00		8/29/00		11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/26/02	
66	Chromium (6010)	0.005	U	0.005	U	NA		0.005	U	0.005	U	**0.005**		0.005	U	0.005	U	0.05	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	0.002	U	**0.002**		NA		**0.003**		**0.003**		**0.007**		**0.005**	J2	0.002	U	0.002	U	**0.004**		0.004	U	**0.003**	
68	Lead (7421)	0.001	U	0.001	U	NA		0.001	U	0.001	U	**0.003**		**0.003**		0.001	U	0.001	U	**0.001**		**0.004**		0.001	U
69	Nickel (6010)	0.01	U	0.01	U	NA		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	Zinc (6010)	**0.008**		0.009	U	NA		**0.010**		**0.006**		**0.016**		**0.013**		**0.011**		0.006	U	**0.012**		**0.012**		**0.006**	
71																									
72	**MAJOR IONS AND CONVENTIONALS**																								
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**35.6**		**42.2**		**24.3**		**23.3**		**12.3**	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**9.27**		**10.1**		**7.63**		**7.65**		**3.88**	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**2.7**		**3.4**		**3.1**		**2.9**		**2.0**	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**5.10**		**5.23**		**5.84**		**5.14**		**3.46**	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		**140**		NA		NA		NA		**67**	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		1.0	U	NA		NA		NA		1.0	U
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		**140**		NA		NA		NA		**67**	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**160**		**170**		NA		**84**		**140**		**180**		**220**		**210**		**300**		**210**		**190**		**120**	
81	Chloride (mg/L) (EPA 325.2)	**3.1**		**7.5**		NA		**1.8**		**2.5**		**2.8**		**26**		**15**		**38**		**26**		**9.7**		**4.1**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		**0.010**		NA		NA		NA		0.010	U
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**0.026**	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		**0.010**		NA		NA		NA		**0.033**	J
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		**5.7**		NA		NA		NA		**4.3**	
86																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AU	AV
1			
2			
3		LW2S	
4		EM85F	
5		6/26/02	
66	Chromium (6010)	0.005	U
67	Copper (6010)	0.002	U
68	Lead (7421)	0.001	U
69	Nickel (6010)	0.01	U
70	Zinc (6010)	**0.012**	
71			
72	**MAJOR IONS AND CONVENTIONALS**		
73	Calcium (mg/L) (6010)	NA	
74	Magnesium (mg/L) (6010)	NA	
75	Potassium (mg/L) (6010)	NA	
76	Sodium (mg/L) (6010)	NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**110**	
81	Chloride (mg/L) (EPA 325.2)	**3.3**	
82	N-Nitrate (mg-N/L) (Calculated)	NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	Sulfate (mg/L) (EPA 375.2)	NA	
86			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																						
2									Dup of LW2S													
3			LW2S		LW2S		LW2S		LW2D		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S	
4			S177G		T176C		U235M		U235E		V224N		W391A		Y336G		Z225A		Z960Q		AH27F	
5			4/2/97		7/15/97		10/22/97		10/22/97		1/29/98		5/19/98		8/19/98		11/13/98		2/18/99		5/17/99	
87	80	**FIELD PARAMETERS**																				
88	81	pH (avg)	6.69		6.62		6.77		6.78		6.83		6.19		6.18		5.9300		6.21		5.62	
89	82	Temperature (° C) (avg)	10.0		15		15.7		15.7		10.8		12.6		14.4		14.7000		8.6		11.2	
90	83	Conductivity (um/hos)	291		258		168		167		108		244		299		148.0000		57		221	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		2.71		1.43		1.31		1.47		3.08	
92	85																					
93	86	**DIOXINS AND FURANS (ng/L)**																				
94	87	**Method 8290**																				
95	88	2,3,7,8-TCDF	**0.0040**		0.0045	U	**0.036**		NA		**0.0052**	(c)	**0.0045**	(c)	**0.012**	(c)	**0.0080**	(c)	**0.0079**	(c)	**0.0045**	(c)
96	89	Total TCDF	**0.0180**		0.0016-0.0048	U	**0.310**		NA		**0.0190**		**0.0280**		**0.060**		**0.0370**		**0.0079**		**0.0230**	
97	90	2,3,7,8-TCDD	0.0042	U	0.0034	U	0.049	U	NA		0.0051	U	0.0025	U	0.0062	U	0.0044	U	**0.0280**		0.0035	U
98	91	Total TCDD	0.0014-0.0042	U	0.0011-0.0036	U	**0.940**		NA		**0.0044**		0.0025	U	0.0062	U	0.0044	U	**0.3000**		**0.0025**	
99	92	1,2,3,7,8-PeCDF	0.0340	U	0.2600	U	0.075	U	NA		**0.0077**		**0.0150**		2.0000	U (b)	**0.0200**		3.00	U,E	**0.0130**	
100	93	2,3,4,7,8-PeCDF	**0.0120**		0.0190	U	**0.110**		NA		0.0160	U	**0.0110**		0.1200	U (b)	**0.0430**		**0.2600**		**0.0240**	
101	94	Total PeCDF	**0.2400**		**0.120**		**1.300**		NA		**0.2200**		**0.1900**		**0.470**		**0.3000**		**0.4200**		**0.1600**	
102	95	1,2,3,7,8-PeCDD	0.0120	U	0.0072	U	**0.360**		NA		0.0160	U	**0.0049**		**0.014**		**0.0110**		**0.2800**		0.0045	U
103	96	Total PeCDD	0.0032-0.0077	U	0.0025-0.014	U	**3.000**		NA		0.0160	U	**0.0049**		**0.014**		**0.0110**		**1.5000**		**0.0019**	
104	97	1,2,3,4,7,8-HxCDF	**0.0590**		**0.019**		1.900	U	NA		0.1300	UE	0.1100	U	**0.180**		0.8400	U	0.50	U,E	**0.0280**	
105	98	1,2,3,6,7,8-HxCDF	**0.0300**		0.0160	U	**0.260**		NA		**0.0470**		**0.0260**		**0.120**		**0.0660**		**0.0870**		0.1900	U,E
106	99	2,3,4,6,7,8-HxCDF	**0.0580**		**0.033**		**0.620**		NA		**0.0740**		**0.0610**	J2	**0.220**		**0.0840**		**0.5700**		**0.0430**	
107	100	1,2,3,7,8,9-HxCDF	**0.0280**		**0.013**		**0.260**		NA		**0.0340**		0.0220	U	**0.078**		**0.0380**		0.53	U,E	**0.0220**	
108	101	Total HxCDF	**0.8800**		**0.370**		**14.000**		NA		**0.9700**		**2.0000**	J2	**2.700**		**1.6000**		**14.0000**		**1.5000**	
109	102	1,2,3,4,7,8-HxCDD	**0.0120**		0.0110	U	**0.630**		NA		**0.0180**		**0.0170**		**0.045**		**0.0310**		**0.2600**		**0.0110**	
110	103	1,2,3,6,7,8-HxCDD	**0.3400**		**0.150**		**3.400**		NA		**0.4000**		**0.4000**	J2	**1.200**		**0.5900**		**3.0000**		**0.1800**	
111	104	1,2,3,7,8,9-HxCDD	**0.0280**		**0.012**		**0.960**		NA		**0.0410**		**0.0400**		**0.110**		**0.0540**		**0.4900**		**0.0170**	
112	105	Total HxCDD	**0.7900**		**0.350**		**14.000**		NA		**0.9500**		**1.0000**	J2	**2.800**		**1.5000**		**10.0000**		**0.4200**	
113	106	1,2,3,4,6,7,8-HpCDF	**1.5000**		**0.600**		**9.700**		NA		**1.5000**		**1.4000**		**4.500**		**2.6000**		**11.0000**		**0.4800**	
114	107	1,2,3,4,7,8,9-HpCDF	**0.0980**		**0.039**		**0.990**		NA		**0.1000**		**0.0990**		**0.340**		**0.1800**		**0.8300**		**0.0440**	
115	108	Total HpCDF	**6.7000**		**0.640**		**43.000**		NA		**4.8000**		**6.3000**		**4.800**		**13.0000**		**65.0000**		**2.8000**	
116	109	1,2,3,4,6,7,8-HpCDD	**10.0000**		**3.800**		**54.000**		NA		**9.9000**		**8.4000**		**28.000**	J2	**17.0000**		**56.0000**		**4.0000**	
117	110	Total HpCDD	**15.0000**		**5.700**		**82.000**		NA		**15.0000**		**13.0000**		**39.000**	J2	**26.0000**		**84.0000**		**5.6000**	
118	111	OCDF	**8.8000**		**2.600**		**40.000**		NA		**7.0000**		**6.9000**		**20.000**		**12.0000**		**43.0000**		**3.1000**	
119	112	OCDD	**76.0000**		**25.000**		**350.000**		NA		**65.0000**		**58.0000**	J2	**190.000**	J2	**110.0000**		**320.0000**		**25.0000**	
120																						
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																						

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1																									
2																									
3		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S	
4		AU22G		BC27H		9912050-04A		BH75F		BR64C		CB49I		CK77I		CT55G		DE68C		DM52I		DW48K		ED23E	
5		9/20/99		12/8/99		12/8/1999 (d)		2/15/00		5/24/00		8/29/00		11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/26/02	
87	**FIELD PARAMETERS**																								
88	pH (avg)	6.06		6.25		NM		6.42		6.23		6.59		5.58		6.01		6.33		6.54		6.22		4.96	
89	Temperature (° C) (avg)	16.6		12.6		NM		10.8		12.8		15.5		15.3		11.3		12.7		15.5		14.5		11.1	
90	Conductivity (um/hos)	221		267		NM		91		267		268		302		305		427		299		321		124	
91	Dissolved oxygen (mg/L) (avg)	1.58		2.34		NM		0.95		1.22		1.73		0.98		0.59		1.32		3.04		3.76		7.98	
92																									
93	**DIOXINS AND FURANS (ng/L)**																								
94	**Method 8290**																								
95	2,3,7,8-TCDF	**0.0060**	(c)	0.00330	U	NA		0.086	U	NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	**0.0510**		**0.0280**		NA		**0.0540**		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	0.0054	U	0.00079	U	NA		0.0047	U	NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	0.0054	U	0.00079	U	NA		0.0047	U	NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	0.1800	UE	0.00170	U	NA		2.400	U	NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	**0.1100**		**0.0160**	J1	NA		**0.0260**	J1	NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	**0.6700**		**0.1000**		NA		**0.1200**		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	**0.0130**		**0.0049**	J1	NA		**0.0068**	J1	NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	**0.0200**		**0.0074**	J1	NA		**0.0110**		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	**0.1800**		**0.0690**		NA		0.860	U	NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	**0.1200**		0.720	U	NA		0.0460	U	NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	**0.1600**		**0.0330**	J1	NA		**0.0420**	J1	NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	**0.0950**		0.011	U	NA		0.0100	U	NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	**14.0000**		**2.1000**		NA		**2.9000**		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	**0.0620**		0.020	U	NA		0.012	U	NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	**1.2000**		**0.4800**		NA		**0.4400**		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	**0.1200**		**0.0410**	J1	NA		**0.0290**	J1	NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	**2.8000**		**1.1000**		NA		**1.2000**		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	**4.8000**		**2.2000**		NA		**1.7000**		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	**0.3300**		**0.1200**		NA		**0.1200**		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	**5.1000**		**10.0000**		NA		**9.2000**		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	**30.0000**		**14.0000**		NA		**11.0000**		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	**45.0000**		**20.0000**		NA		**17.0000**		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	**29.0000**		**11.0000**		NA		**9.0000**		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	**210.0000**		**100.0000**	N2	NA		**76.0000**		NA		NA		NA		NA		NA		NA		NA		NA	
120																									
121	**ETHANOL (mg/L)**	NA		NA		10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AU	AV
1			
2			
3		LW2S	
4		EM85F	
5		6/26/02	
87	**FIELD PARAMETERS**		
88	pH (avg)	6.39	
89	Temperature (° C) (avg)	15.2	
90	Conductivity (um/hos)	150	
91	Dissolved oxygen (mg/L) (avg)	3.67	
92			
93	**DIOXINS AND FURANS (ng/L)**		
94	**Method 8290**		
95	2,3,7,8-TCDF	NA	
96	Total TCDF	NA	
97	2,3,7,8-TCDD	NA	
98	Total TCDD	NA	
99	1,2,3,7,8-PeCDF	NA	
100	2,3,4,7,8-PeCDF	NA	
101	Total PeCDF	NA	
102	1,2,3,7,8-PeCDD	NA	
103	Total PeCDD	NA	
104	1,2,3,4,7,8-HxCDF	NA	
105	1,2,3,6,7,8-HxCDF	NA	
106	2,3,4,6,7,8-HxCDF	NA	
107	1,2,3,7,8,9-HxCDF	NA	
108	Total HxCDF	NA	
109	1,2,3,4,7,8-HxCDD	NA	
110	1,2,3,6,7,8-HxCDD	NA	
111	1,2,3,7,8,9-HxCDD	NA	
112	Total HxCDD	NA	
113	1,2,3,4,6,7,8-HpCDF	NA	
114	1,2,3,4,7,8,9-HpCDF	NA	
115	Total HpCDF	NA	
116	1,2,3,4,6,7,8-HpCDD	NA	
117	Total HpCDD	NA	
118	OCDF	NA	
119	OCDD	NA	
120			
121	**ETHANOL (mg/L)**	NA	
122			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																						
2									Dup of LW2S													
3			LW2S		LW2S		LW2S		LW2D		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S	
4			S177G		T176C		U235M		U235E		V224N		W391A		Y336G		Z225A		Z960Q		AH27F	
5			4/2/97		7/15/97		10/22/97		10/22/97		1/29/98		5/19/98		8/19/98		11/13/98		2/18/99		5/17/99	
123		**PAHs (µg/L)**																				
124		**EPA Method SW8270 SIM**																				
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		**8.2**		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		**0.41**		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		**0.11**	M	NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1																									
2																									
3		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S		LW2S	
4		AU22G		BC27H		9912050-04A		BH75F		BR64C		CB49I		CK77I		CT55G		DE68C		DM52I		DW48K		ED23E	
5		9/20/99		12/8/99		12/8/1999 (d)		2/15/00		5/24/00		8/29/00		11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/26/02	
123	**PAHs (µg/L)**																								
124	**EPA Method SW8270 SIM**																								
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AU	AV
1			
2			
3		LW2S	
4		EM85F	
5		6/26/02	
123	**PAHs (µg/L)**		
124	**EPA Method SW8270 SIM**		
125	Naphthalene	NA	
126	2-Methylnaphthalene	NA	
127	Acenaphthylene	NA	
128	Acenaphthene	NA	
129	Fluorene	NA	
130	Anthracene	NA	
131	Dibenzofuran	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S	
4			S167C		T160D		U235C		V208B		W371C		Z960T		AH76M		BH75A		CT37J		ED16C		EM75C		FF48D	
5			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
7	1	**CHLORINATED PHENOLS (µg/L)**																								
8	2	**EPA Method SW8040**																								
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	0.25	U	**0.86**		0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
16	10																									
17	11	**SEMIVOLATILES (µg/L)**																								
18	12	**EPA Method SW8270**																								
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	NA		2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	NA		2	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	NA		3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	NA		3	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	NA		10	U	10	U	10	U	10	U	50	U	NA		50	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	NA		1	U
33	27																									
34	28	**VOLATILES (µg/L)**																								
35	29	**EPA Method SW8260**																								
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	14	U	5.0	U	NA		5	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	**5.7**		NA		5	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																									
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	51	**Method OR-DEQ**																								
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																									
63	56	**PRIORITY POLLUTANT**																								
64	57	**METALS (mg/L)**																								
65	58	Arsenic (7060)	**0.001**		**0.002**		0.05	U	0.05	U	**0.002**		0.001	U	0.001	U	0.001	U	**0.002**		**0.005**		NA		0.001	U

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S	
4			S167C		T160D		U235C		V208B		W371C		Z960T		AH76M		BH75A		CT37J		ED16C		EM75C		FF48D	
5			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	NA		0.005	U
67	60	Copper (6010)	**0.002**		**0.002**		0.002	U	**0.003**		**0.004**		**0.002**		**0.003**		**0.003**		0.002	U	**0.008**		NA		**0.005**	
68	61	Lead (7421)	**0.001**		**0.002**		0.02	U	0.02	U	**0.002**		0.001	U	**0.001**		**0.001**		0.001	U	**0.002**		NA		**0.001**	
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	NA		0.01	U
70	63	Zinc (6010)	**0.006**		**0.012**		**0.004**		**0.007**		**0.012**	J2	**0.017**	J	**0.010**		**0.006**		0.006	U	**0.017**		NA		**0.011**	
71	64																									
72	65	**MAJOR IONS AND CONVENTIONALS**																								
73	66	Calcium (mg/L) (6010)	**12.5**		**12.8**		**12.0**		**5.13**		NA		NA		NA		NA		NA		**7.22**		NA		**2.58**	
74	67	Magnesium (mg/L) (6010)	**3.83**		**3.71**		**2.94**		**1.64**		NA		NA		NA		NA		NA		**2.44**		NA		**1.03**	
75	68	Potassium (mg/L) (6010)	**2.2**		**3.0**		**3.1**		**1.4**		NA		NA		NA		NA		NA		**1.7**		NA		**0.8**	
76	69	Sodium (mg/L) (6010)	**7.77**		**4.6**		**4.80**		**4.86**		NA		NA		NA		NA		NA		**7.44**		NA		**7**	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**46**		**39**		**34**		**28**		NA		NA		NA		NA		NA		**38**		NA		**15**	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		1.0	U	NA		1	U
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**46**		**39**		**34**		**28**		NA		NA		NA		NA		NA		**38**		NA		**15**	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**110**		**94**		**61**	J2	NA		NA		**75**		**67**		**100**		**72**		NA		**84**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.1**	J	**2.1**		**1.2**		**1.0**		NA		NA		**1.7**		**1.6**		**1.8**		**1.0**		NA		**1.6**	
82	75	N-Nitrate (mg-N/L) (Calculated)	**1.3**	J	**2.2**		**1.8**		**0.17**		NA		NA		NA		NA		NA		**0.098**		NA		**0.91**	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	**0.016**	J	**0.021**		0.010	U	**0.013**		NA		NA		NA		NA		NA		0.010	U	NA		**0.017**	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**1.3**	J	**2.2**		**1.8**		**0.18**		NA		NA		NA		NA		NA		**0.098**		NA		**0.93**	
85	78	Sulfate (mg/L) (EPA 375.2)	**19**	J	**14**		**14**		**3.4**		NA		NA		NA		NA		NA		**5.2**		NA		**6.2**	
86	79																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S	
4			S167C		T160D		U235C		V208B		W371C		Z960T		AH76M		BH75A		CT37J		ED16C		EM75C		FF48D	
5			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
87	80	**FIELD PARAMETERS**																								
88	81	pH (avg)	6.75		6.44		6.52		6.89		5.89		6.61		5.91		6.69		6.36		6.00		5.43		6.64	
89	82	Temperature (° C) (avg)	10.5		18.4		16.1		9.5		11.9		8.6		13.1		9.8		10.6		9.0		13.6		10.8	
90	83	Conductivity (um/hos)	138		147		115		0.63		93		78		64		66		133		73		174		41	
91	84	Dissolved oxygen (mg/L) (avg)									4.88		5.21		3.12		4.83		3.47		5.49		4.62		4.71	
92	85																									
93	86	**DIOXINS AND FURANS (ng/L)**																								
94	87	**Method 8290**																								
95	88	2,3,7,8-TCDF	**0.0088**		0.0025	U	0.0066	U	0.0017	U	NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	0.0044-0.016	U	0.0011-0.0037	U	0.0025-0.0081	U	0.0017	U	NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	0.0160	U	0.0023	U	0.0074	U	0.0023	U	NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	0.0032-0.025	U	0.0012-0.0052	U	0.0018-0.0099	U	**0.0035**		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	0.0083	U	0.0058	U	**0.0100**		0.0015	U	NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	0.0120	U	0.0021	U	0.0062	U	0.0017	U	NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	0.0026-0.018	U	0.0015-0.0064	U	**0.0960**		0.0016	U	NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	0.0260	U	0.0100	U	0.0120	U	0.0030	U	NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	0.010-0.034	U	0.0020-0.0100	U	0.0056-0.013	U	0.0030	U	NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	0.0044	U	0.0017	U	0.0083	U	0.0018	U	NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	0.0057	U	0.0034	U	0.0049	U	0.0021	U	NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	0.0080	U	0.0076	U	0.0064	U	0.0041	U	NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	0.0160	U	0.0045	U	0.0068	U	0.0020	U	NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	0.0048-0.017	U	0.0017-0.0076	U	0.0270	U	0.0041	U	NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	0.0250	U	0.0078	U	0.0080	U	0.0025	U	NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	0.0180	U	0.0072	U	**0.0089**		0.0041	U	NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	0.0160	U	0.0032	U	0.0120	U	0.0030	U	NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	0.011-0.031	U	0.0025-0.0078	U	**0.0230**		0.0032	U	NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	0.0160	U	0.0046	U	**0.0240**		0.0130	U	NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	0.0280	U	0.0057	U	0.0039	U	0.0035	U	NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	0.012-0.028	U	0.0014-0.0058	U	0.0280	U	0.0083	U	NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	0.0230	U	0.0068	U	**0.3000**		0.0064	U	NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	0.013-0.038	U	0.0021-0.0080	U	**0.4400**		0.0064	U	NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	0.0520	U	0.0079	U	**0.1800**		0.0041	U	NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	0.0500	U	0.0300	U	**1.2000**		0.0210	U	NA		NA		NA		NA		NA		NA		NA		NA	
120																										
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																										

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S		LW101S	
4			S167C		T160D		U235C		V208B		W371C		Z960T		AH76M		BH75A		CT37J		ED16C		EM75C		FF48D	
5			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
123		**PAHs (µg/L)**																								
124		**EPA Method SW8270 SIM**																								
125		Naphthalene	NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1																									
2																									
3			LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S
4			S167D		T160E		U235B		V211B		W371B		Z960S		AH76L		BH75B		CT37H		ED16B		EM75B		FF48C
5			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03
7	1	**CHLORINATED PHENOLS (µg/L)**																							
8	2	**EPA Method SW8040**																							
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		**0.66**		**0.31**		0.25	U	**0.28**		0.25	U	0.25
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA
16	10																								
17	11	**SEMIVOLATILES (µg/L)**																							
18	12	**EPA Method SW8270**																							
19	13	Phenol	2.0	U	2.0	U	2.0	UJ	2.0	U	NA		NA		2.0	U	2.0	U	2.0	U	2.0	U	NA		2
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	UJ	1.0	U	NA		NA		1.0	U	1.0	U	**3.5**		1.0	U	NA		**6.8**
21	15	Isophorone	1.0	U	1.0	U	1.0	UJ	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	UJ	3.0	U	NA		NA		3.0	U	3.0	U	3.0	U	3.0	U	NA		3
23	17	Benzoic Acid	10	U	10	U	10	UJ	10	U	NA		NA		10	U	10	U	10	U	50	U	NA		50
24	18	Naphthalene	1.0	U	1.0	U	1.0	UJ	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	UJ	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	UJ	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	UJ	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5
28	22	Acenaphthene	1.0	U	1.0	U	1.0	UJ	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	UJ	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
30	24	Fluorene	1.0	U	1.0	U	1.0	UJ	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	UJ	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	1.3	UJ	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	4.0	U	NA		1
33	27																								
34	28	**VOLATILES (µg/L)**																							
35	29	**EPA Method SW8260**																							
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	160	U	**7.9**		NA		**15**
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																								
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																							
58	51	**Method OR-DEQ**																							
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																								
63	56	**PRIORITY POLLUTANT**																							
64	57	**METALS (mg/L)**																							
65	58	Arsenic (7060)	0.001	U	**0.002**		0.05	U	0.05	U	**0.001**		0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	NA		0.001

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Z
1		
2		
3		
4		
5		
7	**CHLORINATED PHENOLS (µg/L)**	
8	**EPA Method SW8040**	
9	Pentachlorophenol	U
10	2,4,6-Trichlorophenol	
11	2,3,6-Trichlorophenol	
12	2,4,5-Trichlorophenol	
13	2,3,4-Trichlorophenol	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	
15	2,3,4,5-Tetrachlorophenol	
16		
17	**SEMIVOLATILES (µg/L)**	
18	**EPA Method SW8270**	
19	Phenol	U
20	4-Methylphenol	
21	Isophorone	U
22	2,4-Dimethylphenol	U
23	Benzoic Acid	U
24	Naphthalene	U
25	2-Methylnaphthalene	U
26	2,4,6-Trichlorophenol	U
27	2,4,5-Trichlorophenol	U
28	Acenaphthene	U
29	Dibenzofuran	U
30	Fluorene	U
31	Pentachlorophenol	U
32	bis(2-Ethylhexyl)phthalate	U
33		
34	**VOLATILES (µg/L)**	
35	**EPA Method SW8260**	
36	Acetone	
37	Carbon Disulfide	U
38	2-Butanone	U
39	Benzene	U
40	Bromoform	U
41	Toluene	U
42	Ethylbenzene	U
43	Styrene	U
44	m,p-Xylene	U
45	o-Xylene	U
46	1,3,5-Trimethylbenzene	U
47	1,2,4-Trimethylbenzene	U
48	Isopropylbenzene	U
49	n-Propylbenzene	U
50	tert-Butylbenzene	U
51	sec-Butylbenzene	U
52	4-Isopropyltoluene	U
53	n-Butylbenzene	U
54	Naphthalene	U
55	Methyl tert-butyl ether	
56		
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**	
58	**Method OR-DEQ**	
59	**TPH-Diesel**	U
60	**TPH-D Motor Oil**	
61	**TPH-Gasoline**	
62		
63	**PRIORITY POLLUTANT**	
64	**METALS (mg/L)**	
65	Arsenic (7060)	U

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1																									
2																									
3			LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S
4			S167D		T160E		U235B		V211B		W371B		Z960S		AH76L		BH75B		CT37H		ED16B		EM75B		FF48C
5			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	NA		0.005
67	60	Copper (6010)	**0.003**		**0.002**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.002**		0.002	U	0.002	U	NA		**0.005**
68	61	Lead (7421)	0.001	U	**0.002**		0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	NA		0.001
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	NA		0.01
70	63	Zinc (6010)	**0.008**		**0.009**		0.004	U	0.004	U	**0.014**	J2	**0.008**	J	0.004	U	0.006	U	0.006	U	0.006	U	NA		0.006
71	64																								
72	65	**MAJOR IONS AND CONVENTIONALS**																							
73	66	Calcium (mg/L) (6010)	**14.6**		**14.1**		**12.6**		**18.5**		NA		NA		NA		NA		NA		**8.93**		NA		**9.42**
74	67	Magnesium (mg/L) (6010)	**5.39**		**5.64**		**4.87**		**6.76**		NA		NA		NA		NA		NA		**3.65**		NA		**3.85**
75	68	Potassium (mg/L) (6010)	**2.4**		**2.6**		**2.5**		**2.0**		NA		NA		NA		NA		NA		**1.6**		NA		**1.5**
76	69	Sodium (mg/L) (6010)	**6.16**		**5.94**		**6.18**		**7.92**		NA		NA		NA		NA		NA		**5.36**		NA		**5.2**
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**62**		**67**		**61**		**110**		NA		NA		NA		NA		NA		**46**		NA		**47**
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		1.0	U	NA		1
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**62**		**67**		**61**		**110**		NA		NA		NA		NA		NA		**46**		NA		**47**
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**110**		**120**		**120**		NA		NA		**83**		**72**		**120**		**80**		NA		**84**
81	74	Chloride (mg/L) (EPA 325.2)	**4.2**	J	**3.0**		**1.9**		**4.4**		NA		NA		**1.6**		**1.5**		**1.3**		**2.5**		NA		**2.2**
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.12**	J	**0.083**		**0.023**		**0.78**	J2	NA		NA		NA		NA		NA		**0.21**		NA		**0.66**
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	0.010	U	0.010	U	0.010	UJ	NA		NA		NA		NA		NA		0.010	U	NA		0.01
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.12**	J	**0.083**		**0.023**		**0.78**	J2	NA		NA		NA		NA		NA		**0.21**		NA		**0.66**
85	78	Sulfate (mg/L) (EPA 375.2)	**4.5**	J	**4.7**		**3.2**		**6.0**		NA		NA		NA		NA		NA		**5.1**		NA		**6.1**
86	79																								

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Z
1		
2		
3		
4		
5		
66	Chromium (6010)	U
67	Copper (6010)	
68	Lead (7421)	U
69	Nickel (6010)	U
70	Zinc (6010)	U
71		
72	**MAJOR IONS AND CONVENTIONALS**	
73	Calcium (mg/L) (6010)	
74	Magnesium (mg/L) (6010)	
75	Potassium (mg/L) (6010)	
76	Sodium (mg/L) (6010)	
77	Alkalinity (mg/L CaCO3) (SM 2320)	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	U
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	
81	Chloride (mg/L) (EPA 325.2)	
82	N-Nitrate (mg-N/L) (Calculated)	
83	N-Nitrite (mg-N/L) (EPA 354.1)	U
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	
85	Sulfate (mg/L) (EPA 375.2)	
86		

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1																									
2																									
3			LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S
4			S167D		T160E		U235B		V211B		W371B		Z960S		AH76L		BH75B		CT37H		ED16B		EM75B		FF48C
5			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03
87	80	**FIELD PARAMETERS**																							
88	81	pH (avg)	6.63		6.60		6.76		6.60		6.06		6.71		6.04		6.59		5.63		6.13		5.24		6.74
89	82	Temperature (° C) (avg)	10.6		19.0		16.8		9.8		14.4		9.3		13.5		10.0		9.5		9.1		14.5		11
90	83	Conductivity (um/hos)	136		158		133		188		129		100		87		94		127		90		91		104
91	84	Dissolved oxygen (mg/L) (avg)									2.82		5.70		3.14		3.51		1.74		7.06		4.96		2.17
92	85																								
93	86	**DIOXINS AND FURANS (ng/L)**																							
94	87	**Method 8290**																							
95	88	2,3,7,8-TCDF	0.0026	U	0.0011	U	0.0024	U	0.0018	U	NA		NA		NA		NA		NA		NA		NA		NA
96	89	Total TCDF	0.0013-0.0048	U	0.0006-0.0058	U	0.0012-0.0052	U	0.0018	U	NA		NA		NA		NA		NA		NA		NA		NA
97	90	2,3,7,8-TCDD	0.0033	U	0.0023	U	0.0055	U	0.0037	U	NA		NA		NA		NA		NA		NA		NA		NA
98	91	Total TCDD	0.0023-0.0075	U	0.008-0.0068	U	0.0018-0.0090	U	0.0037	U	NA		NA		NA		NA		NA		NA		NA		NA
99	92	1,2,3,7,8-PeCDF	0.0027	U	0.0045	U	0.0020	U	0.0018	U	NA		NA		NA		NA		NA		NA		NA		NA
100	93	2,3,4,7,8-PeCDF	0.0025	U	0.0031	U	0.0021	U	0.0024	U	NA		NA		NA		NA		NA		NA		NA		NA
101	94	Total PeCDF	0.0013-0.0078	U	0.0014-0.0088	U	0.0015-0.0068	U	0.0021	U	NA		NA		NA		NA		NA		NA		NA		NA
102	95	1,2,3,7,8-PeCDD	0.0061	U	0.0077	U	0.0040	U	0.0057	U	NA		NA		NA		NA		NA		NA		NA		NA
103	96	Total PeCDD	0.0030-0.011	U	0.0023-0.0093	U	0.0016-0.0092	U	0.0057	U	NA		NA		NA		NA		NA		NA		NA		NA
104	97	1,2,3,4,7,8-HxCDF	0.0031	U	0.0034	U	0.0067	U	0.0021	U	NA		NA		NA		NA		NA		NA		NA		NA
105	98	1,2,3,6,7,8-HxCDF	0.0043	U	0.0031	U	0.0048	U	0.0019	U	NA		NA		NA		NA		NA		NA		NA		NA
106	99	2,3,4,6,7,8-HxCDF	0.0053	U	0.0031	U	0.0048	U	0.0036	U	NA		NA		NA		NA		NA		NA		NA		NA
107	100	1,2,3,7,8,9-HxCDF	0.0049	U	0.0049	U	0.0020	U	0.0031	U	NA		NA		NA		NA		NA		NA		NA		NA
108	101	Total HxCDF	0.0053	U	0.0020-0.0066	U	0.0048	U	0.0057	U	NA		NA		NA		NA		NA		NA		NA		NA
109	102	1,2,3,4,7,8-HxCDD	0.0054	U	0.0030	U	0.0073	U	0.0034	U	NA		NA		NA		NA		NA		NA		NA		NA
110	103	1,2,3,6,7,8-HxCDD	0.0068	U	0.0056	U	0.0084	U	0.0041	U	NA		NA		NA		NA		NA		NA		NA		NA
111	104	1,2,3,7,8,9-HxCDD	0.0073	U	0.0084	U	0.0039	U	0.0019	U	NA		NA		NA		NA		NA		NA		NA		NA
112	105	Total HxCDD	0.0030-0.010	U	0.0023-0.0084	U	0.0029-0.013	U	0.0031	U	NA		NA		NA		NA		NA		NA		NA		NA
113	106	1,2,3,4,6,7,8-HpCDF	0.0044	U	**0.0016**		0.0047	U	0.0160	U	NA		NA		NA		NA		NA		NA		NA		NA
114	107	1,2,3,4,7,8,9-HpCDF	0.0073	U	0.0063	U	0.0077	U	0.0052	U	NA		NA		NA		NA		NA		NA		NA		NA
115	108	Total HpCDF	**0.0062**		**0.0043**		0.0150	U	0.0106	U	NA		NA		NA		NA		NA		NA		NA		NA
116	109	1,2,3,4,6,7,8-HpCDD	0.0110	U	0.0065	U	**0.0180**		0.0070	U	NA		NA		NA		NA		NA		NA		NA		NA
117	110	Total HpCDD	0.0170	U	0.0024-0.0092	U	**0.0310**		0.0070	U	NA		NA		NA		NA		NA		NA		NA		NA
118	111	OCDF	**0.0100**		**0.0062**		0.0170	U	**0.0074**		NA		NA		NA		NA		NA		NA		NA		NA
119	112	OCDD	0.0710	U	0.0280	U	**0.1200**		0.0390	U	NA		NA		NA		NA		NA		NA		NA		NA
120																									
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
122																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Z
1		
2		
3		
4		
5		
87	**FIELD PARAMETERS**	
88	pH (avg)	
89	Temperature (° C) (avg)	
90	Conductivity (um/hos)	
91	Dissolved oxygen (mg/L) (avg)	
92		
93	**DIOXINS AND FURANS (ng/L)**	
94	**Method 8290**	
95	2,3,7,8-TCDF	
96	Total TCDF	
97	2,3,7,8-TCDD	
98	Total TCDD	
99	1,2,3,7,8-PeCDF	
100	2,3,4,7,8-PeCDF	
101	Total PeCDF	
102	1,2,3,7,8-PeCDD	
103	Total PeCDD	
104	1,2,3,4,7,8-HxCDF	
105	1,2,3,6,7,8-HxCDF	
106	2,3,4,6,7,8-HxCDF	
107	1,2,3,7,8,9-HxCDF	
108	Total HxCDF	
109	1,2,3,4,7,8-HxCDD	
110	1,2,3,6,7,8-HxCDD	
111	1,2,3,7,8,9-HxCDD	
112	Total HxCDD	
113	1,2,3,4,6,7,8-HpCDF	
114	1,2,3,4,7,8,9-HpCDF	
115	Total HpCDF	
116	1,2,3,4,6,7,8-HpCDD	
117	Total HpCDD	
118	OCDF	
119	OCDD	
120		
121	**ETHANOL (mg/L)**	
122		

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1																									
2																									
3			LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S		LW102S
4			S167D		T160E		U235B		V211B		W371B		Z960S		AH76L		BH75B		CT37H		ED16B		EM75B		FF48C
5			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03
123		**PAHs (µg/L)**																							
124		**EPA Method SW8270 SIM**																							
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Z
1		
2		
3		
4		
5		
123	**PAHs (µg/L)**	
124	**EPA Method SW8270 SIM**	
125	Naphthalene	
126	2-Methylnaphthalene	
127	Acenaphthylene	
128	Acenaphthene	
129	Fluorene	
130	Anthracene	
131	Dibenzofuran	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																									Dup of LW103S	
3			LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW13D	
4			S167B		T160C		U235D		V211A		W371D		Z960U		AH76N		BH75C		CT37K		ED16D		EM75D		EM75I	
5			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		6/25/02	
6																										
7	1	**CHLORINATED PHENOLS (µg/L)**																								
8	2	**EPA Method SW8040**																								
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	0.25	U	**0.58**		0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
16	10																									
17	11	**SEMIVOLATILES (µg/L)**																								
18	12	**EPA Method SW8270**																								
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	NA		NA		2.0	U	2.0	U	2.0	U	2.0	U	NA		NA	
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	NA		NA		3.0	U	3.0	U	3.0	U	3.0	U	NA		NA	
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	NA		NA		10	U	10	U	10	U	50	U	NA		NA	
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		NA	
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		NA	
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		NA	
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	4.0	U	NA		NA	
33	27																									
34	28	**VOLATILES (µg/L)**																								
35	29	**EPA Method SW8260**																								
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	9.1	U	5.0	U	NA		NA	
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		NA	
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		NA	
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		NA	
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																									
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	51	**Method OR-DEQ**																								
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																									
63	56	**PRIORITY POLLUTANT**																								
64	57	**METALS (mg/L)**																								
65	58	Arsenic (7060)	**0.007**		**0.011**		0.05	U	0.05	U	**0.010**		**0.009**		**0.011**		**0.019**		**0.008**		**0.013**		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB
1			
2			
3		LW103S	
4		FF48E	
5		2/10/03	
7	**CHLORINATED PHENOLS (µg/L)**		
8	**EPA Method SW8040**		
9	Pentachlorophenol	0.25	U
10	2,4,6-Trichlorophenol	NA	
11	2,3,6-Trichlorophenol	NA	
12	2,4,5-Trichlorophenol	NA	
13	2,3,4-Trichlorophenol	NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	2,3,4,5-Tetrachlorophenol	NA	
16			
17	**SEMIVOLATILES (µg/L)**		
18	**EPA Method SW8270**		
19	Phenol	2	U
20	4-Methylphenol	1	U
21	Isophorone	1	U
22	2,4-Dimethylphenol	3	U
23	Benzoic Acid	50	U
24	Naphthalene	1	U
25	2-Methylnaphthalene	1	U
26	2,4,6-Trichlorophenol	5	U
27	2,4,5-Trichlorophenol	5	U
28	Acenaphthene	1	U
29	Dibenzofuran	1	U
30	Fluorene	1	U
31	Pentachlorophenol	5	U
32	bis(2-Ethylhexyl)phthalate	1	U
33			
34	**VOLATILES (µg/L)**		
35	**EPA Method SW8260**		
36	Acetone	5	U
37	Carbon Disulfide	1	U
38	2-Butanone	5	U
39	Benzene	1	U
40	Bromoform	1	U
41	Toluene	1	U
42	Ethylbenzene	1	U
43	Styrene	1	U
44	m,p-Xylene	1	U
45	o-Xylene	1	U
46	1,3,5-Trimethylbenzene	1	U
47	1,2,4-Trimethylbenzene	1	U
48	Isopropylbenzene	1	U
49	n-Propylbenzene	1	U
50	tert-Butylbenzene	1	U
51	sec-Butylbenzene	1	U
52	4-Isopropyltoluene	1	U
53	n-Butylbenzene	1	U
54	Naphthalene	5	U
55	Methyl tert-butyl ether	NA	
56			
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	**Method OR-DEQ**		
59	**TPH-Diesel**	0.25	U
60	**TPH-D Motor Oil**	NA	
61	**TPH-Gasoline**	NA	
62			
63	**PRIORITY POLLUTANT**		
64	**METALS (mg/L)**		
65	Arsenic (7060)	**0.008**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																									Dup of LW103S	
3			LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW13D	
4			S167B		T160C		U235D		V211A		W371D		Z960U		AH76N		BH75C		CT37K		ED16D		EM75D		EM75I	
5			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		6/25/02	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	NA		NA	
67	60	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.007**		0.002	U	**0.003**		NA		NA	
68	61	Lead (7421)	0.001	U	**0.001**		0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	**0.003**		0.001	U	0.001	U	NA		NA	
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	NA		NA	
70	63	Zinc (6010)	**0.005**		**0.008**		**0.004**		**0.005**		**0.006**	J2	**0.007**	J	0.004	U	**0.010**		0.006	U	0.006	U	NA		NA	
71	64																									
72	65	**MAJOR IONS AND CONVENTIONALS**																								
73	66	Calcium (mg/L) (6010)	**13.5**		**19**		**15.6**		**16.0**		NA		NA		NA		NA		NA		**17.0**		NA		NA	
74	67	Magnesium (mg/L) (6010)	**5.02**		**6.95**		**5.65**		**5.89**		NA		NA		NA		NA		NA		**6.51**		NA		NA	
75	68	Potassium (mg/L) (6010)	**1.8**		**2.0**		**2.0**		**1.3**		NA		NA		NA		NA		NA		**1.7**		NA		NA	
76	69	Sodium (mg/L) (6010)	**4.93**		**5.35**		**5.11**		**5.99**		NA		NA		NA		NA		NA		**5.57**		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**95**		**84**		**71**		**84**		NA		NA		NA		NA		NA		**83**		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		1.0	U	NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**95**		**84**		**71**		**84**		NA		NA		NA		NA		NA		**83**		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**130**		**100**		**110**		NA		NA		**110**		**97**		**130**		**110**		NA		NA	
81	74	Chloride (mg/L) (EPA 325.2)	**2.2**	J	**2.5**		**1.7**		**1.3**		NA		NA		**1.7**		**2.3**		**2.5**		**2.3**		NA		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	0.010	U	0.010	U	**0.036**		**0.057**	J2	NA		NA		NA		NA		NA		**0.093**		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	**0.017**		**0.016**		0.010	UJ	NA		NA		NA		NA		NA		0.010	U	NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	0.010	U	0.010	U	**0.052**		**0.057**	J2	NA		NA		NA		NA		NA		**0.093**		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	**5.5**	J	**4.6**		**2.6**		2.5	U	NA		NA		NA		NA		NA		**2.9**		NA		NA	
86	79																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB
1			
2			
3		LW103S	
4		FF48E	
5		2/10/03	
66	Chromium (6010)	0.005	U
67	Copper (6010)	0.002	U
68	Lead (7421)	0.001	U
69	Nickel (6010)	0.01	U
70	Zinc (6010)	0.006	U
71			
72	**MAJOR IONS AND CONVENTIONALS**		
73	Calcium (mg/L) (6010)	**15.4**	
74	Magnesium (mg/L) (6010)	**5.89**	
75	Potassium (mg/L) (6010)	**1.4**	
76	Sodium (mg/L) (6010)	**6.7**	
77	Alkalinity (mg/L CaCO3) (SM 2320)	**100**	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1	U
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**100**	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**110**	
81	Chloride (mg/L) (EPA 325.2)	**2.8**	
82	N-Nitrate (mg-N/L) (Calculated)	**0.2**	
83	N-Nitrite (mg-N/L) (EPA 354.1)	0.01	U
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.2**	
85	Sulfate (mg/L) (EPA 375.2)	**8.6**	
86			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																									Dup of LW103S	
3			LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW13D	
4			S167B		T160C		U235D		V211A		W371D		Z960U		AH76N		BH75C		CT37K		ED16D		EM75D		EM75I	
5			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		6/25/02	
87	80	**FIELD PARAMETERS**																								
88	81	pH (avg)	6.74		6.75		6.77		6.73		6.37		7.02		6.14		6.74		6.52		6.17		6.47		6.47	
89	82	Temperature (° C) (avg)	10.9		14.6		14.7		12.2		13.2		10.8		12.4		11.0		11.5		10.7		13.5		13.5	
90	83	Conductivity (um/hos)	157		222		180		198		214		128		174		135		160		170		187		188	
91	84	Dissolved oxygen (mg/L) (avg)									1.47		2.98		2.79		2.56		3.55		5.73		5.70		5.74	
92	85																									
93	86	**DIOXINS AND FURANS (ng/L)**																								
94	87	**Method 8290**																								
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																										
121		**ETHANOL (mg/L)**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
122																										

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB
1			
2			
3		LW103S	
4		FF48E	
5		2/10/03	
87	**FIELD PARAMETERS**		
88	pH (avg)	7.12	
89	Temperature (° C) (avg)	12.2	
90	Conductivity (um/hos)	184	
91	Dissolved oxygen (mg/L) (avg)	1.79	
92			
93	**DIOXINS AND FURANS (ng/L)**		
94	**Method 8290**		
95	2,3,7,8-TCDF	NA	
96	Total TCDF	NA	
97	2,3,7,8-TCDD	NA	
98	Total TCDD	NA	
99	1,2,3,7,8-PeCDF	NA	
100	2,3,4,7,8-PeCDF	NA	
101	Total PeCDF	NA	
102	1,2,3,7,8-PeCDD	NA	
103	Total PeCDD	NA	
104	1,2,3,4,7,8-HxCDF	NA	
105	1,2,3,6,7,8-HxCDF	NA	
106	2,3,4,6,7,8-HxCDF	NA	
107	1,2,3,7,8,9-HxCDF	NA	
108	Total HxCDF	NA	
109	1,2,3,4,7,8-HxCDD	NA	
110	1,2,3,6,7,8-HxCDD	NA	
111	1,2,3,7,8,9-HxCDD	NA	
112	Total HxCDD	NA	
113	1,2,3,4,6,7,8-HpCDF	NA	
114	1,2,3,4,7,8,9-HpCDF	NA	
115	Total HpCDF	NA	
116	1,2,3,4,6,7,8-HpCDD	NA	
117	Total HpCDD	NA	
118	OCDF	NA	
119	OCDD	NA	
120			
121	**ETHANOL (mg/L)**	NA	
122			

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																									Dup of LW103S	
3			LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW103S		LW13D	
4			S167B		T160C		U235D		V211A		W371D		Z960U		AH76N		BH75C		CT37K		ED16D		EM75D		EM75I	
5			3/31/97		7/14/97		10/21/97		1/27/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		6/25/02	
123		**PAHs (µg/L)**																								
124		**EPA Method SW8270 SIM**																								
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AA	AB
1			
2			
3		LW103S	
4		FF48E	
5		2/10/03	
123	**PAHs (µg/L)**		
124	**EPA Method SW8270 SIM**		
125	Naphthalene	NA	
126	2-Methylnaphthalene	NA	
127	Acenaphthylene	NA	
128	Acenaphthene	NA	
129	Fluorene	NA	
130	Anthracene	NA	
131	Dibenzofuran	NA	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S	
4			S167A		T160B		U235A		V208A		W371A		Z960R		AH76K		BH75D		CT37G		ED16A		EM75A		FF48B	
5			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
7	1	**CHLORINATED PHENOLS (µg/L)**																								
8	2	**EPA Method SW8040**																								
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	0.25	U	**0.77**		0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	NA		NA		NA		NA	
16	10																									
17	11	**SEMIVOLATILES (µg/L)**																								
18	12	**EPA Method SW8270**																								
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	NA		NA		2.0	U	2.0	U	2.0	U	2.0	U	NA		2	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	NA		NA		3.0	U	3.0	U	3.0	U	3.0	U	NA		3	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	NA		NA		10	U	10	U	10	U	50	U	NA		50	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	**2.0**		**10**		NA		1	U
33	27																									
34	28	**VOLATILES (µg/L)**																								
35	29	**EPA Method SW8260**																								
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	8.9	U	5.0	U	NA		5	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		1.0	U	1.0	U	1.0	U	1.0	U	NA		1	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	NA		NA		5.0	U	5.0	U	5.0	U	5.0	U	NA		5	U
55	48.5	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																									
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	51	**Method OR-DEQ**																								
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		0.25	U	0.25	U	**0.32**		0.25	U	NA		0.25	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																									
63	56	**PRIORITY POLLUTANT**																								
64	57	**METALS (mg/L)**																								
65	58	Arsenic (7060)	**0.002**		**0.003**		0.05	U	0.05	U	**0.002**		**0.002**		**0.001**		**0.002**		**0.002**		**0.002**		NA		**0.002**	

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S	
4			S167A		T160B		U235A		V208A		W371A		Z960R		AH76K		BH75D		CT37G		ED16A		EM75A		FF48B	
5			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	NA		0.005	U
67	60	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	NA		**0.028**	
68	61	Lead (7421)	0.001	U	0.001	U	0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	NA		0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	NA		0.01	U
70	63	Zinc (6010)	0.004	U	**0.005**		0.004	U	0.004	U	0.004	U	**0.019**	J	0.004	U	**0.008**		0.006	U	0.006	U	NA		**0.018**	
71	64																									
72	65	**MAJOR IONS AND CONVENTIONALS**																								
73	66	Calcium (mg/L) (6010)	**17.6**		**16.1**		**20.9**		**13.0**		NA		NA		NA		NA		NA		**9.25**		NA		**15.7**	
74	67	Magnesium (mg/L) (6010)	**4.63**		**4.26**		**5.48**		**3.66**		NA		NA		NA		NA		NA		**2.88**		NA		**4.9**	
75	68	Potassium (mg/L) (6010)	**2.5**		**2.8**		**3.4**		**1.8**		NA		NA		NA		NA		NA		**1.8**		NA		**2.3**	
76	69	Sodium (mg/L) (6010)	**11.4**		**12.1**		**12.6**		**9.60**		NA		NA		NA		NA		NA		**7.09**		NA		**9.5**	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**92**		**86**		**100**		**81**		NA		NA		NA		NA		NA		**53**		NA		**88**	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		1.0	U	NA		1	U
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**92**		**86**		**100**		**81**		NA		NA		NA		NA		NA		**53**		NA		**88**	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**140**		**160**	J2	**110**		NA		NA		**110**		**83**		**160**		**99**		NA		**120**	
81	74	Chloride (mg/L) (EPA 325.2)	**3.8**	J	**2.8**		**2.5**		**2.2**		NA		NA		**2.1**		**1.9**		**1.4**		**2.8**		NA		**3.3**	
82	75	N-Nitrate (mg-N/L) (Calculated)	0.010	U	0.010	U	**0.031**		**0.011**		NA		NA		NA		NA		NA		0.010	U	NA		**0.021**	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	**0.019**		0.010	U	0.010	U	NA		NA		NA		NA		NA		0.010	U	NA		0.01	U
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	0.010	U	**0.011**		**0.031**		**0.011**		NA		NA		NA		NA		NA		0.010	U	NA		**0.021**	
85	78	Sulfate (mg/L) (EPA 375.2)	**4.2**	J	**5.7**		2.5	U	**8.0**		NA		NA		NA		NA		NA		**9.3**		NA		**9.3**	
86	79																									

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

			LW104S S167A 3/31/97	LW104S T160B 7/14/97	LW104S U235A 10/21/97	LW104S V208A 1/28/98	LW104S W371A 5/18/98	LW104S Z960R 2/16/99	LW104S AH76K 5/19/99	LW104S BH75D 2/15/00	LW104S CT37G 2/13/01	LW104S ED16A 2/25/02	LW104S EM75A 6/25/02	LW104S FF48B 2/10/03
87	80	**FIELD PARAMETERS**												
88	81	pH (avg)	6.75	6.80	6.77	6.85	6.39	7.19	6.32	6.88	6.05	6.15	5.43	7.28
89	82	Temperature (° C) (avg)	9.7	15.1	15.9	11.9	12.1	10.7	12.4	10.5	11.4	11.1	13.8	12.3
90	83	Conductivity (um/hos)	198	223	228	185	197	131	167	99	238	111	123	196
91	84	Dissolved oxygen (mg/L) (avg)					1.75	1.45	1.45	2.00	1.48	5.18	4.26	1.67
92	85													
93	86	**DIOXINS AND FURANS (ng/L)**												
94	87	**Method 8290**												
95	88	2,3,7,8-TCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
96	89	Total TCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
97	90	2,3,7,8-TCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
98	91	Total TCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
99	92	1,2,3,7,8-PeCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
100	93	2,3,4,7,8-PeCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
101	94	Total PeCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
102	95	1,2,3,7,8-PeCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
103	96	Total PeCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
104	97	1,2,3,4,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
105	98	1,2,3,6,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
106	99	2,3,4,6,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
107	100	1,2,3,7,8,9-HxCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
108	101	Total HxCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
109	102	1,2,3,4,7,8-HxCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
110	103	1,2,3,6,7,8-HxCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
111	104	1,2,3,7,8,9-HxCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
112	105	Total HxCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
113	106	1,2,3,4,6,7,8-HpCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
114	107	1,2,3,4,7,8,9-HpCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
115	108	Total HpCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
116	109	1,2,3,4,6,7,8-HpCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
117	110	Total HpCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
118	111	OCDF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
119	112	OCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
120														
121		**ETHANOL (mg/L)**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
122														

TABLE F-10
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - SHALLOW WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2																										
3			LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S		LW104S	
4			S167A		T160B		U235A		V208A		W371A		Z960R		AH76K		BH75D		CT37G		ED16A		EM75A		FF48B	
5			3/31/97		7/14/97		10/21/97		1/28/98		5/18/98		2/16/99		5/19/99		2/15/00		2/13/01		2/25/02		6/25/02		2/10/03	
123		**PAHs (µg/L)**																								
124		**EPA Method SW8270 SIM**																								
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

	A	B	C
1			
2			
3			
4			
5			
6			
7		**CHLORINATED PHENOLS (µg/L)**	
8		**EPA Method SW8040**	
9	Pentachlorophenol	Pentachlorophenol	3
10		2,4,6-Trichlorophenol	
11		2,3,6-Trichlorophenol	
12		2,4,5-Trichlorophenol	
13		2,3,4-Trichlorophenol	
14		2,3,5,6- and 2,3,4,6-Tetrachlorophenol	
15		2,3,4,5-Tetrachlorophenol	
16			
17		**SEMIVOLATILES (µg/L)**	
18		**EPA Method SW8270**	
19	Phenol	Phenol	13
20	4-Methylphenol	4-Methylphenol	14
21	Isophorone	Isophorone	15
22	2,4-Dimethylphenol	2,4-Dimethylphenol	16
23	Benzoic Acid	Benzoic Acid	17
24	Naphthalene	Naphthalene	18
25	2-Methylnaphthalene	2-Methylnaphthalene	19
26	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	20
27	2,4,5-Trichlorophenol	2,4,5-Trichlorophenol	21
28	Acenaphthene	Acenaphthene	22
29	Dibenzofuran	Dibenzofuran	23
30	Fluorene	Fluorene	24
31	Pentachlorophenol	Pentachlorophenol	25
32	bis(2-Ethylhexyl)phthalate	bis(2-Ethylhexyl)phthalate	26
33			
34		**VOLATILES (µg/L)**	
35		**EPA Method SW8260**	
36	Acetone	Acetone	30
37	Carbon Disulfide	Carbon Disulfide	31
38	2-Butanone	2-Butanone	32
39	Benzene	Benzene	33
40	Bromoform	Bromoform	34
41	Toluene	Toluene	35
42	Ethylbenzene	Ethylbenzene	36
43	Styrene	Styrene	37
44	m,p-Xylene	m,p-Xylene	38
45	o-Xylene	o-Xylene	39
46	1,3,5-Trimethylbenzene	1,3,5-Trimethylbenzene	40
47	1,2,4-Trimethylbenzene	1,2,4-Trimethylbenzene	41
48	Isopropylbenzene	Isopropylbenzene	42
49	n-Propylbenzene	n-Propylbenzene	43
50	tert-Butylbenzene	tert-Butylbenzene	44
51	sec-Butylbenzene	sec-Butylbenzene	45
52	4-Isopropyltoluene	4-Isopropyltoluene	46
53	n-Butylbenzene	n-Butylbenzene	47
54	Naphthalene	Naphthalene	48
55	Methyl tert-butyl ether	Methyl tert-butyl ether	48.5
56			
57		**TOTAL PETROLEUM HYDROCARBONS (mg/L)**	
58		**Method OR-DEQ**	
59	Diesel Range Hydrocarbons	**TPH-Diesel**	52
60	Motor Oil	**TPH-D Motor Oil**	53
61	Gasoline Range Hydrocarbons	**TPH-Gasoline**	54
62			
63		**PRIORITY POLLUTANT**	
64		**METALS (mg/L)**	
65	Arsenic	Arsenic (7060)	58
66	Chromium	Chromium (6010)	59
67	Copper	Copper (6010)	60
68	Lead	Lead (7421)	61
69	Nickel	Nickel (6010)	62
70	Zinc	Zinc (6010)	63
71			
72		**MAJOR IONS AND CONVENTIONALS**	
73		Calcium (mg/L) (6010)	

	A	B	C
74		Magnesium (mg/L) (6010)	
75		Potassium (mg/L) (6010)	
76		Sodium (mg/L) (6010)	
77		Alkalinity (mg/L CaCO3) (SM 2320)	
78		Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	
79		Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	
80	Total Dissolved Solids	Total Dissolved Solids (mg/L) (EPA 160.1)	73
81	Chloride	Chloride (mg/L) (EPA 325.2)	74
82		N-Nitrate (mg-N/L) (Calculated)	
83		N-Nitrite (mg-N/L) (EPA 354.1)	
84		Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	
85		Sulfate (mg/L) (EPA 375.2)	
86			
87		**FIELD PARAMETERS**	
88	pH	pH (avg)	81
89	Temperature	Temperature (° C) (avg)	82
90	Conductivity	Conductivity (um/hos)	83
91	Dissolved oxygen	Dissolved oxygen (mg/L) (avg)	84
92			
93		**DIOXINS AND FURANS (ng/L)**	
94		**Method 8290**	
95		2,3,7,8-TCDF	88
96		TotalTCDF	89
97		2,3,7,8-TCDD	90
98		TotalTCDD	91
99		1,2,3,7,8-PeCDF	92
100		2,3,4,7,8-PeCDF	93
101		TotalPeCDF	94
102		1,2,3,7,8-PeCDD	95
103		TotalPeCDD	96
104		1,2,3,4,7,8-HxCDF	97
105		1,2,3,6,7,8-HxCDF	98
106		2,3,4,6,7,8-HxCDF	99
107		1,2,3,7,8,9-HxCDF	100
108		TotalHxCDF	101
109		1,2,3,4,7,8-HxCDD	102
110		1,2,3,6,7,8-HxCDD	103
111		1,2,3,7,8,9-HxCDD	104
112		TotalHxCDD	105
113		1,2,3,4,6,7,8-HpCDF	106
114		1,2,3,4,7,8,9-HpCDF	107
115		TotalHpCDF	108
116		1,2,3,4,6,7,8-HpCDD	109
117		TotalHpCDD	110
118		OCDF	111
119		OCDD	112
120			
121		**ETHANOL (mg/L)**	
122			
123		**PAHs (µg/L)**	
124		**EPA Method SW8270 SIM**	
125		Naphthalene	118
126		2-Methylnaphthalene	119
127		Acenaphthylene	120
128		Acenaphthene	121
129		Fluorene	122
130		Anthracene	123
131		Dibenzofuran	124

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2
4			S177C		T176O		U235I		V224S		W371J		Y336B		Z225N		Z960F		AH49A		AU36B		BC27M		BH96P		BR55J		CB68B
5			4/1/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/21/99		12/8/99		2/16/00		5/23/00		8/29/00
6																													
7	1	**CHLORINATED PHENOLS (µg/L)**																											
8	2	**EPA Method SW8040**																											
9	3	Pentachlorophenol	0.25	U	**0.17**	J1	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
16	10																												
17	11	**SEMIVOLATILES (µg/L)**																											
18	12	**EPA Method SW8270**																											
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.0**		1.0	U	**0.6**	J1	1.0	U	1.0	U	1.0
33	27																												
34	28	**VOLATILES (µg/L)**																											
35	29	**EPA Method SW8260**																											
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**5.6**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																												
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																											
58	51	**Method OR-DEQ**																											
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.48**		0.25	U	0.25	U	**0.36**		**0.28**		0.25
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																												

BZTO104(e)022437

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
3			B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2	
4			CL03J		CT67G		DE68K		DM30N		DW37C		ED23B		EM75K		ES04H		EY88D		FF88P		FL41G		FU50D		FY64E		0402099-02	
5			11/10/00		2/15/01		6/5/01		8/14/01		11/28/01		2/26/02		6/25/02		08/28/02		11/11/02		2/13/03		5/7/03		8/29/03		10/20/03		2/19/04	
7	**CHLORINATED PHENOLS (µg/L)**																													
8	**EPA Method SW8040**																													
9	Pentachlorophenol	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.27	U	0.25	U	0.26	U	0.25	U	0.5	U	0.5	U	0.475	U
10	2,4,6-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																														
17	**SEMIVOLATILES (µg/L)**																													
18	**EPA Method SW8270**																													
19	Phenol	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.1	U	2.2	U	2	U	2	U	2	U	2	U	1.95	U
20	4-Methylphenol	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	9.73	U
21	Isophorone	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	0.973	U
22	2,4-Dimethylphenol	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.2	U	3.3	U	3.1	U	3	U	3	U	3	U	2.92	U
23	Benzoic Acid	U	10	U	10	U	10	U	10	U	50	U	50	U	50	U	53	U	56	U	51	U	50	U	50	U	10	U	19.5	U
24	Naphthalene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	0.973	U
25	2-Methylnaphthalene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	0.973	U
26	2,4,6-Trichlorophenol	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	5.6	U	5.1	U	5	U	5	U	5	U	4.86	U
27	2,4,5-Trichlorophenol	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	5.6	U	5.1	U	5	U	5	U	5	U	4.86	U
28	Acenaphthene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	0.973	U
29	Dibenzofuran	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	0.973	U
30	Fluorene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	0.973	U
31	Pentachlorophenol	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	5.6	U	5.1	U	5	U	5	U	5	U	4.86	U
32	bis(2-Ethylhexyl)phthalate	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	4.0	U	4.0	U	4.3	U	4.4	U	1	U	1	U	**6.1**		1	U	0.973	U
33																														
34	**VOLATILES (µg/L)**																													
35	**EPA Method SW8260**																													
36	Acetone	U	5.0	U	5.0	U	5.0	U	5.0	U	**7.2**		5.0	U	5.0	U	5	U	5	U	5	U	**12**		5	U	5	U	50	U
37	Carbon Disulfide	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	2	U
38	2-Butanone	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U	10	U
39	Benzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	0.4	U
40	Bromoform	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
43	Styrene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	2	U
45	o-Xylene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
48	Isopropylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
49	n-Propylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
50	tert-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
52	4-Isopropyltoluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
54	Naphthalene	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U	1	U
55	Methyl tert-butyl ether		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1	U
56																														
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																													
58	**Method OR-DEQ**																													
59	**TPH-Diesel**	U	0.25	U	0.25	U	NA		NA		NA		0.25	U	NA		NA		NA		0.25	U	NA		NA		NA		NA	
60	**TPH-D Motor Oil**		0.50	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																														

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BG	BH
1			
2			
3		B2	
4		0408019-03	
5		8/03/04	
6			
7	**CHLORINATED PHENOLS (µg/L)**		
8	**EPA Method SW8040**		
9	Pentachlorophenol	0.5	U
10	2,4,6-Trichlorophenol	NA	
11	2,3,6-Trichlorophenol	NA	
12	2,4,5-Trichlorophenol	NA	
13	2,3,4-Trichlorophenol	NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	2,3,4,5-Tetrachlorophenol	NA	
16			
17	**SEMIVOLATILES (µg/L)**		
18	**EPA Method SW8270**		
19	Phenol	2.01	U
20	4-Methylphenol	10	U
21	Isophorone	1	U
22	2,4-Dimethylphenol	3.01	U
23	Benzoic Acid	20.1	U
24	Naphthalene	1	U
25	2-Methylnaphthalene	1	U
26	2,4,6-Trichlorophenol	5.02	U
27	2,4,5-Trichlorophenol	5.02	U
28	Acenaphthene	1	U
29	Dibenzofuran	1	U
30	Fluorene	1	U
31	Pentachlorophenol	5.02	U
32	bis(2-Ethylhexyl)phthalate	1	U
33			
34	**VOLATILES (µg/L)**		
35	**EPA Method SW8260**		
36	Acetone	50	U
37	Carbon Disulfide	2	U
38	2-Butanone	10	U
39	Benzene	0.3	U
40	Bromoform	1	U
41	Toluene	1	U
42	Ethylbenzene	1	U
43	Styrene	1	U
44	m,p-Xylene	2	U
45	o-Xylene	1	U
46	1,3,5-Trimethylbenzene	1	U
47	1,2,4-Trimethylbenzene	1	U
48	Isopropylbenzene	1	U
49	n-Propylbenzene	1	U
50	tert-Butylbenzene	1	U
51	sec-Butylbenzene	1	U
52	4-Isopropyltoluene	1	U
53	n-Butylbenzene	1	U
54	Naphthalene	1	U
55	Methyl tert-butyl ether	1	U
56			
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	**Method OR-DEQ**		
59	**TPH-Diesel**	NA	
60	**TPH-D Motor Oil**	NA	
61	**TPH-Gasoline**	NA	
62			

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2
4			S177C		T176O		U235I		V224S		W371J		Y336B		Z225N		Z960F		AH49A		AU36B		BC27M		BH96P		BR55J		CB68B
5			4/1/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/21/99		12/8/99		2/16/00		5/23/00		8/29/00
63	56	**PRIORITY POLLUTANT**																											
64	57	**METALS (mg/L)**																											
65	58	Arsenic (7060)	**0.008**		**0.008**		0.05	U	0.05	U	**0.014**		**0.022**		**0.010**		**0.026**		**0.010**		**0.012**		**0.012**		**0.017**		**0.012**		**0.015**
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
67	60	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002
68	61	Lead (7421)	0.001	U	0.001	U	0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
70	63	Zinc (6010)	0.004	U	0.004	U	**0.013**		0.004	U	0.004	U	**0.005**		0.004	U	**0.007**	J	**0.006**		**0.005**		0.006	U	**0.007**		**0.011**		**0.011**
71	64																												
72	65	**MAJOR IONS AND CONVENTIONALS**																											
73	66	Calcium (mg/L) (6010)	**66.1**		**65.6**		**40.1**		**41.8**		NA		NA		NA		**38.8**		NA		NA		NA		NA		NA		NA
74	67	Magnesium (mg/L) (6010)	**45.2**		**47**		**14.4**		**13.5**		NA		NA		NA		**11.9**		NA		NA		NA		NA		NA		NA
75	68	Potassium (mg/L) (6010)	**2.0**		**1.9**		**4.7**		**4.5**		NA		NA		NA		**4.5**		NA		NA		NA		NA		NA		NA
76	69	Sodium (mg/L) (6010)	**18.8**		**19.6**		**11.5**		**9.59**		NA		NA		NA		**9.03**		NA		NA		NA		NA		NA		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**370**		**380**	J2	**38**		**190**		NA		NA		NA		**170**		NA		NA		NA		NA		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA		NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**370**		**380**	J2	**38**		**190**		NA		NA		NA		**170**		NA		NA		NA		NA		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**420**	J2	**210**		**190**		**180**		**200**		**230**		**180**		**170**		**210**		**160**		**180**		**190**		**220**
81	74	Chloride (mg/L) (EPA 325.2)	**7.6**		**9.1**		**2.6**		**1.9**		**3.4**		**1.6**		**2.7**		**1.0**		**3.9**		**2.7**		**3.9**		**3.6**		**2.8**		**2.5**
82	75	N-Nitrate (mg-N/L) (Calculated)	0.010	U	0.010	U	**0.027**		**0.018**	J2	NA		NA		NA		**0.012**		NA		NA		NA		NA		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.02	J	**0.028**	J2	**0.32**		0.010	UJ	NA		NA		NA		**0.019**		NA		NA		NA		NA		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.019**		0.010	U	**0.35**		**0.018**	J2	NA		NA		NA		**0.031**		NA		NA		NA		NA		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	2.5	U	2.5	U	2.5	U	2.5	U	NA		NA		NA		**3.8**		NA		NA		NA		NA		NA		NA
86	79																												

BZTO104(e)022440

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
1																														
2																														
3			B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2	
4			CL03J		CT67G		DE68K		DM30N		DW37C		ED23B		EM75K		ES04H		EY88D		FF88P		FL41G		FU50D		FY64E		0402099-02	
5			11/10/00		2/15/01		6/5/01		8/14/01		11/28/01		2/26/02		6/25/02		08/28/02		11/11/02		2/13/03		5/7/03		8/29/03		10/20/03		2/19/04	
63	**PRIORITY POLLUTANT**																													
64	**METALS (mg/L)**																													
65	Arsenic (7060)		**0.006**		**0.006**		**0.005**		**0.010**		**0.009**		**0.011**		**0.010**		**0.013**		0.05	U	**0.027**		**0.048**		**0.01**		**0.002**		**0.005**	
66	Chromium (6010)	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.0087**	
67	Copper (6010)	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.01	U
68	Lead (7421)	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.0001	U
69	Nickel (6010)	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.005	U
70	Zinc (6010)		0.006	U	0.006	U	**0.009**		0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	**0.01**		**0.016**	J	0.006	U	0.006	U	0.01	U
71																														
72	**MAJOR IONS AND CONVENTIONALS**																													
73	Calcium (mg/L) (6010)		NA		**43.6**		**48.0**		**42.0**		**56.4**	J	**43.3**		NA		NA		NA		**46.7**		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)		NA		**19.4**		**23.8**		**18.3**		**32.6**	J	**14.5**		NA		NA		NA		**20.5**		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)		NA		**3.4**		**3.4**		**3.9**		**2.4**		**5.2**		NA		NA		NA		**3.9**		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)		NA		**11.0**		**12.1**		**11.4**		**15.0**		**9.84**		NA		NA		NA		**11.3**		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		**200**		NA		NA		NA		**240**		NA		NA		NA		**270**		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		1.0	U	NA		NA		NA		**1.0**	U	NA		NA		NA		1	U	NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		**200**		NA		NA		NA		**240**		NA		NA		NA		**270**		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**240**		**260**		**260**		**270**		**280**		**240**		**190**		**210**		**360**		**250**		**220**		**240**		**250**		**218**	
81	Chloride (mg/L) (EPA 325.2)		**3.2**		**3.9**	J	**3.2**		**6.1**		**3.9**		**3.3**		**5.1**		**5.2**		**4.3**		**5.9**		**3.5**		**2.9**		**3.1**		**2.64**	
82	N-Nitrate (mg-N/L) (Calculated)		NA		**0.81**		NA		NA		NA		**0.73**		NA		NA		NA		**0.2**		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		0.010	J	NA		NA		NA		**0.021**		NA		NA		NA		**0.023**		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		**0.81**		NA		NA		NA		**0.75**	J	NA		NA		NA		**0.22**		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)		NA		**4.1**		NA		NA		NA		**2.6**		NA		NA		NA		**3**		NA		NA		NA		NA	
86																														

BZTO104(e)022441

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BG	BH
1			
2			
3		B2	
4		0408019-03	
5		8/03/04	
63	**PRIORITY POLLUTANT**		
64	**METALS (mg/L)**		
65	Arsenic (7060)	**0.00363**	
66	Chromium (6010)	**0.0161**	
67	Copper (6010)	0.01	U
68	Lead (7421)	0.0001	U
69	Nickel (6010)	0.005	U
70	Zinc (6010)	0.01	U
71			
72	**MAJOR IONS AND CONVENTIONALS**		
73	Calcium (mg/L) (6010)	NA	
74	Magnesium (mg/L) (6010)	NA	
75	Potassium (mg/L) (6010)	NA	
76	Sodium (mg/L) (6010)	NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**286**	
81	Chloride (mg/L) (EPA 325.2)	**3.51**	
82	N-Nitrate (mg-N/L) (Calculated)	NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	Sulfate (mg/L) (EPA 375.2)	NA	
86			

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2
4			S177C		T176O		U235I		V224S		W371J		Y336B		Z225N		Z960F		AH49A		AU36B		BC27M		BH96P		BR55J		CB68B
5			4/1/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/21/99		12/8/99		2/16/00		5/23/00		8/29/00
6																													
87	80	**FIELD PARAMETERS**																											
88	81	pH (avg)	6.75		6.73		7.28		6.96		6.61		6.43		6.48		7.16		6.27		6.61		6.88		6.70		6.51		7.00
89	82	Temperature (° C) (avg)	13.4		16.3		13.9		14.4		13.0		15.5		12.9		13.3		14.1		15.0		12.6		13.4		16.1		15.6
90	83	Conductivity (um/hos)	769		675		297		385		494		643		234		357		253		285		305		653		665		346
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		1.44		1.50		3.24		3.13		1.53		2.93		1.98		1.09		0.67		1.16
92	85																												
93	86	**DIOXINS AND FURANS (ng/L)**																											
94	87	**Method 8290**																											
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120	113																												
121																													
122																													

BZTO104(e)022443

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
1																														
2																														
3			B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2	
4			CL03J		CT67G		DE68K		DM30N		DW37C		ED23B		EM75K		ES04H		EY88D		FF88P		FL41G		FU50D		FY64E		0402099-02	
5			11/10/00		2/15/01		6/5/01		8/14/01		11/28/01		2/26/02		6/25/02		08/28/02		11/11/02		2/13/03		5/7/03		8/29/03		10/20/03		2/19/04	
87	**FIELD PARAMETERS**																													
88	pH (avg)		5.53		6.97		6.80		6.96		6.71		6.90		7.01		7.21		6.8		7.06		7.25		6.96		6.71		6.52	
89	Temperature (° C) (avg)		13.3		13.5		14.0		16.3		12.8		13.1		15.3		15.9		14.1		14.4		15.2		14.9		14.9		14.8	
90	Conductivity (um/hos)		319		315		611		608		384		362		272		272		595		598		319		340		560		301	
91	Dissolved oxygen (mg/L) (avg)		2.17		1.81		1.59		1.98		4.27		7.72		4.80		1.09		2.52		0		4.22		1.75		0.56		3.24	
92																														
93	**DIOXINS AND FURANS (ng/L)**																													
94	**Method 8290**																													
95	2,3,7,8-TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																														
121																														
122																														

BZTO104(e)022444

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BG	BH
1			
2			
3		B2	
4		0408019-03	
5		8/03/04	
87	**FIELD PARAMETERS**		
88	pH (avg)	7.76	
89	Temperature (° C) (avg)	15.3	
90	Conductivity (um/hos)	414	
91	Dissolved oxygen (mg/L) (avg)	NM	
92			
93	**DIOXINS AND FURANS (ng/L)**		
94	**Method 8290**		
95	2,3,7,8-TCDF	NA	
96	Total TCDF	NA	
97	2,3,7,8-TCDD	NA	
98	Total TCDD	NA	
99	1,2,3,7,8-PeCDF	NA	
100	2,3,4,7,8-PeCDF	NA	
101	Total PeCDF	NA	
102	1,2,3,7,8-PeCDD	NA	
103	Total PeCDD	NA	
104	1,2,3,4,7,8-HxCDF	NA	
105	1,2,3,6,7,8-HxCDF	NA	
106	2,3,4,6,7,8-HxCDF	NA	
107	1,2,3,7,8,9-HxCDF	NA	
108	Total HxCDF	NA	
109	1,2,3,4,7,8-HxCDD	NA	
110	1,2,3,6,7,8-HxCDD	NA	
111	1,2,3,7,8,9-HxCDD	NA	
112	Total HxCDD	NA	
113	1,2,3,4,6,7,8-HpCDF	NA	
114	1,2,3,4,7,8,9-HpCDF	NA	
115	Total HpCDF	NA	
116	1,2,3,4,6,7,8-HpCDD	NA	
117	Total HpCDD	NA	
118	OCDF	NA	
119	OCDD	NA	
120			
121			
122			

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2
4			S177C		T176O		U235I		V224S		W371J		Y336B		Z225N		Z960F		AH49A		AU36B		BC27M		BH96P		BR55J		CB68B
5			4/1/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/21/99		12/8/99		2/16/00		5/23/00		8/29/00
6																													
123	114	**PAHs (µg/L)**																											
124	115	**EPA Method SW8270 SIM**																											
125	116	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126	117	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127	118	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128	119	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129	120	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130	121	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131	122	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
1																														
2																														
3			B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2		B2	
4			CL03J		CT67G		DE68K		DM30N		DW37C		ED23B		EM75K		ES04H		EY88D		FF88P		FL41G		FU50D		FY64E		0402099-02	
5			11/10/00		2/15/01		6/5/01		8/14/01		11/28/01		2/26/02		6/25/02		08/28/02		11/11/02		2/13/03		5/7/03		8/29/03		10/20/03		2/19/04	
6																														
123	**PAHs (µg/L)**																													
124	**EPA Method SW8270 SIM**																													
125	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BG	BH
1			
2			
3		B2	
4		0408019-03	
5		8/03/04	
6			
123	**PAHs (µg/L)**		
124	**EPA Method SW8270 SIM**		
125	Naphthalene	NA	
126	2-Methylnaphthalene	NA	
127	Acenaphthylene	1	U
128	Acenaphthene	NA	
129	Fluorene	NA	
130	Anthracene	1	U
131	Dibenzofuran	NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2									Dup of G1A				Dup of G1A															
3			G1A		G1A		G1A		G1B		G1A		S		G1A		G1A		G1A		G1A		G1A		G1A		G1A	
4			S177E		T176H		U258C		U258A		V224T		V224L		W391G		Y313D		Z225C		Z960O		AH27J		AU45F		BC27E	
5			4/2/97		7/15/97		10/23/97		10/23/97		1/29/98		1/29/98		5/20/98		8/17/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99	
6																												
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	**66**		**170**		**25**		**21**		**99**		**96**		**0.16**	J1	**0.37**		0.25	U	**0.28**		0.25	U	0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	**0.25**		**5.1**		**0.58**		**0.59**		**1.8**	J2	**1.3**	J2	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
11	5	2,3,6-Trichlorophenol	**0.40**		0.91	U	0.25	U	0.25	U	**0.26**		**0.20**	J1	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
12	6	2,4,5-Trichlorophenol	0.49	U	1.7	U	0.35	U	1.0	U	**1.1**		**0.86**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**3.4**		**21**		**2.5**		**2.3**		**5.4**		**5.1**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
15	9	2,3,4,5-Tetrachlorophenol	**0.49**		**3.6**		**0.50**		**0.49**		**0.50**		**0.41**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	2.0	U	**7.5**		3.4	U	2.5	U	2.0	U	2.0	U	**2.3**		**6.0**		2.0	U	2.0	U	**3.2**		**10**		2.0	U
20	14	4-Methylphenol	1.0	U	**2.2**		1.7	U	1.2	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**15**		1.0	U	1.0	U
21	15	Isophorone	1.0	U	1.0	U	1.7	U	1.2	U	**1.2**		**1.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	5.2	U	3.8	U	3.0	U	**3.3**		**11**	J2	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	17	U	12	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	**16**		10	U
24	18	Naphthalene	**9.7**		**14**		**11**		**11**		30	J2	**23**	J2	**8.4**	J2	**9.0**		**1.6**		**2.4**		**15**		**6.4**		**3.0**	
25	19	2-Methylnaphthalene	**29**		**37**		**33**		**35**		**44**	J2	**30**	J2	**19**	J2	**25**		**7.2**		**14**		**23**		**16**		**12**	
26	20	2,4,6-Trichlorophenol	5.0	U	**9.6**		8.6	U	6.2	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	**5.6**		8.6	U	6.2	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.7	U	1.2	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.7	U	1.2	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.7	U	1.2	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	**65**		**180**		**34**		**37**		**4.3**	J1	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.7	U	**2.1**		1.0	U	**1.8**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**6.8**		5.0	U	5.0	U	5.0	U	**14**		**16**	M	5.0	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	150	J	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**36**		**22**		5.0	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**2.7**		1.0	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	**1.2**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.3**		1.0	U	1.0	U
42	36	Ethylbenzene	31		**49**		**74**	J2	**59**	J2	**28**		**32**		**34**		**42**		**3.1**		1.0	U	**81**		**7.4**		**2.3**	
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	**51**		**74**		**160**	J2	**120**	J2	**74**		**89**		**74**		**93**		**5.7**		**2.0**		**120**		**24**		**1.5**	
45	39	o-Xylene	**3.4**		**5.2**		**10**		**8.3**		**4.1**		**4.1**		1.0	U	**2.5**		1.0	U	1.0	U	**5.6**		1.0	U	1.0	U
46	40	1,3,5-Trimethylbenzene	**36**		**58**		**120**	J2	**85**	J2	**59**		**60**		**38**		**52**		**3.2**		**4.2**		**35**		**20**		**11**	
47	41	1,2,4-Trimethylbenzene	**130**		**150**		**350**	J2	**250**	J2	140		**160**		**120**		**99**		**8.8**		**9.9**		**110**		**57**		**14**	
48	42	Isopropylbenzene	**180**		**200**		**310**	J2	**240**	J2	**130**		**140**		**200**	E	**180**		**170**		**170**		**190**		**96**		**66**	
49	43	n-Propylbenzene	**200**		**220**		**340**	J2	**270**	J2	**140**		**160**		**210**	E	**180**		**170**		**160**		**220**		**93**		**64**	
50	44	tert-Butylbenzene	**3.6**		**5.1**	J2	**6.9**		**5.7**		**3.6**		**4.0**		**5.3**	M	**6.9**		**4.6**		**4.1**		**3.9**		**3.7**		**1.7**	
51	45	sec-Butylbenzene	**18**		**25**		**33**		**27**		**14**		**17**		**24**		**30**	J2	**23**		**18**		**20**		**19**		**6.9**	
52	46	4-Isopropyltoluene	**2.8**		**3.6**		**9.2**	J2	**6.2**	J2	**4.8**		**5.6**		**4.0**		**6.5**		1.0	U	1.0	U	**2.9**		**1.3**		1.0	U
53	47	n-Butylbenzene	**14**	M	**19**		**26**		**22**		**12**		**14**		**19**		**23**		**15**		**11**		**15**		14	U	1.0	U
54	48	Naphthalene	**20**		**32**		**73**	J2	**50**	J2	**22**		**78**		**36**		**41**		**5.2**		**5.3**		**28**		**18**		5.0	U
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	51	**Method OR-DEQ**																										
59	52	**TPH-Diesel**	**4.0**		**3.9**		**3.5**		**3.6**		**3.3**		**3.5**		**3.0**		**2.6**		**2.7**		**2.5**		**2.6**		**2.6**		**2.3**	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
3		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A	
4		BH96J		BR64I		CB85G		CL03E		CT55A		DE87L		DM30A		DW37F		ED23I		EM85J		ER93D		EZ03D		FF76E		FL66D	
5		2/17/00		5/24/00		8/30/00		11/8/00		2/13/01		6/6/01		8/13/01		11/28/01		2/26/02		6/26/02		08/26/02		11/12/02		2/12/03		5/9/03	
7	**CHLORINATED PHENOLS (µg/L)**																												
8	**EPA Method SW8040**																												
9	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.26	U	0.25	U	**0.39**		0.25	U
10	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
17	**SEMIVOLATILES (µg/L)**																												
18	**EPA Method SW8270**																												
19	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.1	U	2.2	U	2.1	U	2	U
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.1	U	1	U	1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.1	U	1	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.1	U	3.3	U	3.1	U	3	U
23	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	50	U	50	U	50	U	52	U	54	U	52	U	50	U
24	Naphthalene	**6.7**		**3.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.1	U	1	U	1	U
25	2-Methylnaphthalene	**24**		**14**		**7.7**		**4.1**		**1.6**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.1	U	1	U	1	U
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.2	U	5.4	U	5.2	U	5	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.2	U	5.4	U	5.2	U	5	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.1	U	1	U	1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.1	U	1	U	1	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1.1	U	1	U	1	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.2	U	5.4	U	5.2	U	5	U
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	**1.7**		1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	4.0	U	4.0	U	4.2	U	4.3	U	1	U	1	U
34	**VOLATILES (µg/L)**																												
35	**EPA Method SW8260**																												
36	Acetone	5.0	U	5.0	U	5.0	U	5.0	U		R	5.0	U	**5.6**		5.0	U	5.0	U	**7.8**		5	U	5	U	5	U	**5.6**	M
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U
38	2-Butanone	5.0	U	**9.0**		21	U	**21**		5.0	U	**6.2**		**13**		**6.4**		**7.5**		5.0	U	**11**	M	5	U	5	U	5	U
39	Benzene	**4.4**		**1.7**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U
41	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	1.0	U	**1.9**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.3**		1	U	1	U	1	U	1	U
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	1.0	U	1.0	U	1.0	U	**1.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U
45	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	**1.6**		**7.9**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	**17**		**11**		**3.8**		2.4	M	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U
48	Isopropylbenzene	**140**		**95**		**100**		**140**		**120**		**150**		**130**		**200**		**140**		**170**		**140**		**150**		**180**		**65**	
49	n-Propylbenzene	**130**		**90**		**92**		**130**		**110**		**140**		**120**		**190**		**120**		**150**		**110**		**130**		**150**		**49**	
50	tert-Butylbenzene	**4.8**		**2.6**		**4.0**		**3.7**		**3.2**		**4.5**		**3.2**		**4.9**		**3.6**		**4.7**		**3.8**		**3.7**		**4.7**		**2.6**	
51	sec-Butylbenzene	**24**		**9.6**		**20**		**19**		**16**		**20**		**17**		**23**		**16**		**23**		**18**		**18**		**22**		**7.2**	
52	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**7.9**		1.0	U	1.0	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	**17**		**6.2**	M	**14**	M	**12**		**10**		14	U	**11**		**14**	M	**12**		**13**	M	**11**	M	**11**	M	**14**	M	**4.3**	M
54	Naphthalene	**13**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
58	**Method OR-DEQ**																												
59	**TPH-Diesel**	**2.3**		**3.2**		**2.1**		**2.2**		**3.4**		**2.3**		**3.3**		**4.5**		**4.3**		**5.0**		**4.8**		**4.4**		**4.4**		**3.3**	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP
3		G1A		G1A		G1A		G1A		G1A		G1A	
4		FU50F		FY82N		0402105-04		0406039-03		0408044-06		0411051-06	
5		8/29/03		10/24/03		2/20/04		6/7/04		8/06/04		11/9/04	
7	**CHLORINATED PHENOLS (µg/L)**												
8	**EPA Method SW8040**												
9	Pentachlorophenol	0.51	U	0.5	U	0.478	U	0.507	U	NA		5.04	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA	
16													
17	**SEMIVOLATILES (µg/L)**												
18	**EPA Method SW8270**												
19	Phenol	2	U	2	U	2.06	U	2.13	U	2	U	2.01	U
20	4-Methylphenol	1	U	1	U	10.3	U	10.6	U	10	U	10.1	U
21	Isophorone	1	U	1	U	1.03	U	1.06	U	1	U	1.01	U
22	2,4-Dimethylphenol	3	U	3	U	3.08	U	3.19	U	3	U	3.02	U
23	Benzoic Acid	51	U	10	U	20.6	U	21.3	U	20	U	20.1	U
24	Naphthalene	1	U	1	U	1.03	U	1.06	U	1	U	1.01	U
25	2-Methylnaphthalene	1	U	1	U	1.03	U	1.06	U	1	U	1.01	U
26	2,4,6-Trichlorophenol	5.1	U	5	U	5.14	U	5.32	U	5	U	5.04	U
27	2,4,5-Trichlorophenol	5.1	U	5	U	5.14	U	5.32	U	5	U	5.04	U
28	Acenaphthene	1	U	1	U	1.03	U	1.06	U	1	U	1.01	U
29	Dibenzofuran	1	U	1	U	1.03	U	1.06	U	1	U	1.01	U
30	Fluorene	1	U	1	U	1.03	U	1.06	U	1	U	1.01	U
31	Pentachlorophenol	5.1	U	5	U	5.14	U	5.32	U	**5.22**		0.478	U
32	bis(2-Ethylhexyl)phthalate	**2.8**		1	U	1.03	U	1.06	U	1	U	1.01	U
33													
34	**VOLATILES (µg/L)**												
35	**EPA Method SW8260**												
36	Acetone	**9.3**	M	**7.3**	M	50	U	50	U	50	U	50	U
37	Carbon Disulfide	1	U	1	U	2	U	2	U	2	U	2	U
38	2-Butanone	**10**	M	**6.7**	M	10	U	10	U	10	U	**12**	
39	Benzene	1	U	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U
43	Styrene	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	1	U	1	U	2	U	2	U	2	U	2	U
45	o-Xylene	1	U	1	U	1	U	1	U	1	U	**1.4**	
46	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U
48	Isopropylbenzene	**180**		**150**		**67.2**		**105**		**118**		**86.6**	
49	n-Propylbenzene	**160**		**130**		**57.1**		**112**		**99.6**		**114**	
50	tert-Butylbenzene	**5.1**		**3.5**		1	U	**5.1**		**2.94**		**3.89**	
51	sec-Butylbenzene	**23**		**17**		**7.93**		**27.5**		**16.8**		**24.5**	
52	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	**14**		**10**		**4.23**		**15**		**8.97**		**14**	
54	Naphthalene	5	U	5	U	1	U	1	U	**2.49**		1	U
55	Methyl tert-butyl ether	NA		NA		1	U	1	U	1	U	1	U
56													
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**												
58	**Method OR-DEQ**												
59	**TPH-Diesel**	**3.7**		**2.2**		**2.39**	J	**3.98**		**3.25**		**3.13**	
60	**TPH-D Motor Oil**	NA		0.5	U	0.491	UJ	0.536	U	0.507	U	0.502	U
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA	
62													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2									Dup of G1A				Dup of G1A															
3			G1A		G1A		G1A		G1B		G1A		S		G1A		G1A		G1A		G1A		G1A		G1A		G1A	
4			S177E		T176H		U258C		U258A		V224T		V224L		W391G		Y313D		Z225C		Z960O		AH27J		AU45F		BC27E	
5			4/2/97		7/15/97		10/23/97		10/23/97		1/29/98		1/29/98		5/20/98		8/17/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99	
63	56	**PRIORITY POLLUTANT**																										
64	57	**METALS (mg/L)**																										
65	58	Arsenic (7060)	**0.031**		**0.034**		0.05	U	0.05	U	0.05	U	0.05	U	**0.039**		**0.039**		**0.10**		**0.041**		**0.032**		**0.040**		**0.039**	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.008**		0.005	U
67	60	Copper (6010)	0.002	U	0.002	U	**0.002**		**0.003**		**0.004**		**0.004**		0.002	U	**0.004**		**0.004**		0.002	U	0.002	U	**0.009**		**0.003**	
68	61	Lead (7421)	0.001	U	0.001	U	0.02	U	0.02	U	0.02	U	0.02	U	**0.001**		**0.005**		**0.002**		0.001	U	**0.003**		**0.007**		**0.001**	
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.02	U	0.01	U
70	63	Zinc (6010)	0.004	U	0.004	U	**0.024**		**0.024**		**0.008**		**0.010**		**0.005**	J2	**0.013**		**0.012**		**0.011**	J	0.009	U	**0.020**		0.008	U
71	64																											
72	65	**MAJOR IONS AND CONVENTIONALS**																										
73	66	Calcium (mg/L) (6010)	**59.1**		**51**		**53.5**		**53.0**		**46.7**		**46.4**		NA		NA		NA		**55.5**		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**21.6**		**19.1**		**17.9**		**17.6**		**15.8**		**15.7**		NA		NA		NA		**19.5**		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**0.8**		**0.7**		**6.8**		**7.6**		**1.5**		**1.5**		NA		NA		NA		**1.0**		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**11.5**		**10.5**		**15.2**		**15.4**		**10.4**		**10.2**		NA		NA		NA		**11.0**		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**260**		**230**		**210**		**210**		**250**		**210**		NA		NA		NA		**240**		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**260**		**230**		**210**		**210**		**250**		**210**		NA		NA		NA		**240**		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**300**	J2	**270**		**260**		**230**		**270**		**300**		**290**		**260**		**340**		**670**		**580**		**420**	
81	74	Chloride (mg/L) (EPA 325.2)	**13**		**14**		**14**		**13**		**13**		**12**		**12**		**11**		**12**		**12**		**9.1**		**11**		**9.3**	
82	75	N-Nitrate (mg-N/L) (Calculated)	0.010	U	0.010	U	0.010	U	0.010	U	**0.022**	J2	**0.024**	J2	NA		NA		NA		**0.010**		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	**0.036**	J	**0.042**	J2	**0.013**		**0.019**		**0.011**	J2	0.010	UJ	NA		NA		NA		**0.015**		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.024**		0.010	U	**0.020**		**0.020**		**0.033**	J2	**0.024**	J2	NA		NA		NA		**0.025**		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	3.7		NA		NA		NA		**4.7**		NA		NA		NA	
86	79																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A	
4		BH96J		BR64I		CB85G		CL03E		CT55A		DE87L		DM30A		DW37F		ED23I		EM85J		ER93D		EZ03D		FF76E		FL66D	
5		2/17/00		5/24/00		8/30/00		11/8/00		2/13/01		6/6/01		8/13/01		11/28/01		2/26/02		6/26/02		08/26/02		11/12/02		2/12/03		5/9/03	
63	**PRIORITY POLLUTANT**																												
64	**METALS (mg/L)**																												
65	Arsenic (7060)	**0.036**		**0.036**		**0.036**		**0.033**		**0.035**		**0.036**		**0.040**		**0.034**		**0.035**		**0.037**		**0.039**		0.05	U	**0.024**		**0.028**	
66	Chromium (6010)	0.005	U	0.005	U	**0.005**		0.005	U	0.005	U	0.005	U	**0.013**		**0.005**		**0.005**		0.005	U	0.005	U	**0.008**		0.005	U	0.005	U
67	Copper (6010)	0.002	U	0.002	U	**0.015**		**0.004**		0.002	U	**0.003**		**0.017**		**0.005**	J	**0.005**		**0.002**		**0.004**		**0.01**		**0.01**		0.002	U
68	Lead (7421)	0.001	U	**0.001**		**0.004**		**0.003**		**0.002**		**0.001**		**0.008**		**0.004**		**0.002**		0.001	U	**0.003**		0.02	U	0.001	U	0.001	U
69	Nickel (6010)	0.01	U	0.01	U	**0.01**		0.01	U	0.01	U	0.01	U	**0.01**		0.01	U	0.01	U	0.01	U	0.01	U	**0.01**		0.01	U	0.01	U
70	Zinc (6010)	0.006	U	0.006	U	**0.014**		**0.009**		**0.008**		**0.009**		**0.033**		**0.015**	J	**0.008**		**0.008**		**0.034**		**0.02**		**0.013**		**0.011**	
71																													
72	**MAJOR IONS AND CONVENTIONALS**																												
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		**65.6**		**60.3**		**67.9**		**56.9**	J	**62.8**		NA		NA		NA		**61.7**		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		**21.6**		**20.2**		**24.9**		**18.7**	J	**21.1**		NA		NA		NA		**22**		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		**1.8**		**3.4**		**2.4**		**3.6**		**3.2**		NA		NA		NA		**7**		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		**11.2**		**12.1**		**13.5**		**13.4**		**13.0**		NA		NA		NA		**17**		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		**310**		NA		NA		NA		**290**		NA		NA		NA		**300**		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		1	U	NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		**310**		NA		NA		NA		**290**		NA		NA		NA		**300**		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**450**		**390**		**460**		**380**		**350**	J	**340**	J	**330**	J	**330**		**380**		**320**		**330**		**430**		**350**		**350**	
81	Chloride (mg/L) (EPA 325.2)	**18**		**8.4**		**6.7**		**8.2**		**8.8**		**8.2**		**10**		**3.3**		**26**		**5.1**		**5**		**4.8**		**3.6**		**6**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		**0.010**		NA		NA		NA		0.010	U	NA		NA		NA		**0.045**		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		0.010	U	NA		NA		NA		**0.074**		NA		NA		NA		**0.023**		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		**0.010**		NA		NA		NA		**0.057**	J	NA		NA		NA		**0.068**		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		**4.7**		NA		NA		NA		**2.5**		NA		NA		NA		2.5	U	NA	
86																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP
3		G1A		G1A		G1A		G1A		G1A		G1A	
4		FU50F		FY82N		0402105-04		0406039-03		0408044-06		0411051-06	
5		8/29/03		10/24/03		2/20/04		6/7/04		8/06/04		11/9/04	
63	**PRIORITY POLLUTANT**												
64	**METALS (mg/L)**												
65	Arsenic (7060)	**0.036**		**0.035**		**0.032**		**0.033**		**0.0293**		**0.0295**	
66	Chromium (6010)	**0.006**		**0.01**		**0.0077**		**0.0155**		**0.0156**		**0.0203**	
67	Copper (6010)	**0.004**		**0.007**		**0.0346**		0.01	U	0.01	U	0.01	U
68	Lead (7421)	0.001	U	**0.003**		**0.0004**		**0.0004**		**0.000658**		**0.00395**	
69	Nickel (6010)	**0.05**		**0.08**		**0.0997**		**0.0955**		**0.13**		**0.13**	
70	Zinc (6010)	**0.009**		**0.021**		0.01	U	**0.0102**		0.01	U	**0.0243**	
71													
72	**MAJOR IONS AND CONVENTIONALS**												
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**400**		**310**		**280**		**364**		**302**		**339**	
81	Chloride (mg/L) (EPA 325.2)	**7.3**		**8.4**		**7.79**		**6.83**		**6.46**		**6.51**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA	
86													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2									Dup of G1A				Dup of G1A															
3			G1A		G1A		G1A		G1B		G1A		S		G1A		G1A		G1A		G1A		G1A		G1A		G1A	
4			S177E		T176H		U258C		U258A		V224T		V224L		W391G		Y313D		Z225C		Z960O		AH27J		AU45F		BC27E	
5			4/2/97		7/15/97		10/23/97		10/23/97		1/29/98		1/29/98		5/20/98		8/17/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99	
87	80	**FIELD PARAMETERS**																										
88	81	pH (avg)	6.77		6.67		6.82		6.82		6.73		6.70		6.43		6.50		6.30		6.87		5.75		6.67		6.45	
89	82	Temperature (° C) (avg)	14.1		16.0		14.5		14.5		14.2		14.0		13.8		15.2		12.6		13.0		15.5		17.9		13.0	
90	83	Conductivity (um/hos)	625		585		496		496		473		480		444		680		127		559		825		850		742	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		NA		2.18		0.93		1.58		1.54		1.83		0.68		2.00	
92	85																											
93	86	**DIOXINS AND FURANS (ng/L)**																										
94	87	**Method 8290**																										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121																												
122																												

BZTO104(e)022455

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A	
4		BH96J		BR64I		CB85G		CL03E		CT55A		DE87L		DM30A		DW37F		ED23I		EM85J		ER93D		EZ03D		FF76E		FL66D	
5		2/17/00		5/24/00		8/30/00		11/8/00		2/13/01		6/6/01		8/13/01		11/28/01		2/26/02		6/26/02		08/26/02		11/12/02		2/12/03		5/9/03	
87	**FIELD PARAMETERS**																												
88	pH (avg)	6.68		6.47		5.92		5.84		6.42		6.83		6.79		6.58		6.64		6.48		6.69		6.76		7.18		6.92	
89	Temperature (° C) (avg)	13.9		17.2		15.0		13.7		15.2		14.4		15.5		13.4		14.3		17.5		17.7		13.7		14.4		14.9	
90	Conductivity (um/hos)	828		796		799		679		645		651		614		586		578		592		513		665		682		566	
91	Dissolved oxygen (mg/L) (avg)	0.86		0.31		0.67		0.64		1.76		1.84		1.41		4.16		7.50		2.72		0.69		1.06		1.68		2.83	
92																													
93	**DIOXINS AND FURANS (ng/L)**																												
94	**Method 8290**																												
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																													
121																													
122																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP
1													
2													
3		G1A		G1A		G1A		G1A		G1A		G1A	
4		FU50F		FY82N		0402105-04		0406039-03		0408044-06		0411051-06	
5		8/29/03		10/24/03		2/20/04		6/7/04		8/06/04		11/9/04	
87	**FIELD PARAMETERS**												
88	pH (avg)	6.69		6.64		6.7		5.4		6.22		6.74	
89	Temperature (° C) (avg)	15		14.7		15.4		14.9		14.4		14.1	
90	Conductivity (um/hos)	588		603		560		473		811		545	
91	Dissolved oxygen (mg/L) (avg)	1.35		2.92		0.96		1.54		3.36		1.2	
92													
93	**DIOXINS AND FURANS (ng/L)**												
94	**Method 8290**												
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA	
120													
121													
122													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2									Dup of G1A				Dup of G1A															
3			G1A		G1A		G1A		G1B		G1A		S		G1A		G1A		G1A		G1A		G1A		G1A		G1A	
4			S177E		T176H		U258C		U258A		V224T		V224L		W391G		Y313D		Z225C		Z960O		AH27J		AU45F		BC27E	
5			4/2/97		7/15/97		10/23/97		10/23/97		1/29/98		1/29/98		5/20/98		8/17/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99	
6																												
123		**PAHs (µg/L)**																										
124		**EPA Method SW8270 SIM**																										
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		**2.5**		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		**16**		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.23**	M	NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.16**	M	NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A		G1A	
4		BH96J		BR64I		CB85G		CL03E		CT55A		DE87L		DM30A		DW37F		ED23I		EM85J		ER93D		EZ03D		FF76E		FL66D	
5		2/17/00		5/24/00		8/30/00		11/8/00		2/13/01		6/6/01		8/13/01		11/28/01		2/26/02		6/26/02		08/26/02		11/12/02		2/12/03		5/9/03	
123	**PAHs (µg/L)**																												
124	**EPA Method SW8270 SIM**																												
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP
1													
2													
3		G1A		G1A		G1A		G1A		G1A		G1A	
4		FU50F		FY82N		0402105-04		0406039-03		0408044-06		0411051-06	
5		8/29/03		10/24/03		2/20/04		6/7/04		8/06/04		11/9/04	
123	**PAHs (µg/L)**												
124	**EPA Method SW8270 SIM**												
125	Naphthalene	NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		1	U	NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		1	U	NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2
4			S177J		T176Q		U235K		V224P		W371L		Y314J		Z225P		Z960D		AH49D		AU22I		BC27L		BH96S		BR64E		CB49H
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/20/99		12/8/99		2/16/00		5/24/00		8/29/00
6																													
7	1	**CHLORINATED PHENOLS (µg/L)**																											
8	2	**EPA Method SW8040**																											
9	3	Pentachlorophenol	**0.15**	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.36**		0.25	U	0.25	U	0.25
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
16	10																												
17	11	**SEMIVOLATILES (µg/L)**																											
18	12	**EPA Method SW8270**																											
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	**2.8**		2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
32	26	bis(2-Ethylhexyl)phthalate	1.1	U	**1.7**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
33	27																												
34	28	**VOLATILES (µg/L)**																											
35	29	**EPA Method SW8260**																											
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
37	31	Carbon Disulfide	1.0	U	1.0	U	**44**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																												
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																											
58	51	**Method OR-DEQ**																											
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.36**		0.25	U	0.25	U	**0.28**		**0.31**		**0.28**		**0.30**		**0.38**		**0.26**
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
3			J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2	
4			CL03I		CT55E		DE68J		DM52A		DW48D		ED23D		EM85E		ES04E		EZ03L		FF76I		FL58J		FU31B		FY64I		0402105-02	
5			11/10/00		2/14/01		6/5/01		8/14/01		11/29/01		2/26/02		6/26/02		08/28/02		11/12/02		2/12/03		5/8/03		8/27/03		10/21/03		2/20/04	
7	**CHLORINATED PHENOLS (µg/L)**																													
8	**EPA Method SW8040**																													
9	Pentachlorophenol	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.33**		0.25	U	0.25	U	0.28	U	0.25	U	0.26	U	0.25	U	0.5	U	0.5	U	0.483	U
10	2,4,6-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																														
17	**SEMIVOLATILES (µg/L)**																													
18	**EPA Method SW8270**																													
19	Phenol	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.2	U	2.2	U	2	U	2	U	2	U	2	U	1.99	U
20	4-Methylphenol	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	9.93	U
21	Isophorone	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	0.993	U
22	2,4-Dimethylphenol	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.3	U	3.3	U	3.1	U	3	U	3	U	3	U	2.98	U
23	Benzoic Acid	U	10	U	10	U	10	U	10	U	30	U	50	U	50	U	56	U	56	U	51	U	50	U	50	U	10	U	19.9	U
24	Naphthalene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	0.993	U
25	2-Methylnaphthalene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	0.993	U
26	2,4,6-Trichlorophenol	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5.6	U	5.1	U	5	U	5	U	5	U	4.97	U
27	2,4,5-Trichlorophenol	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5.6	U	5.1	U	5	U	5	U	5	U	4.97	U
28	Acenaphthene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	0.993	U
29	Dibenzofuran	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	0.993	U
30	Fluorene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	0.993	U
31	Pentachlorophenol	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5.6	U	5.1	U	5	U	5	U	5	U	4.97	U
32	bis(2-Ethylhexyl)phthalate	U	1.0	U	**1.0**		1.0	U	1.0	U	1.0	U	4.0	U	4.0	U	4.4	U	4.4	U	1	U	1	U	1	U	1	U	0.993	U
33																														
34	**VOLATILES (µg/L)**																													
35	**EPA Method SW8260**																													
36	Acetone	U	5.0	U		R	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U	50	U
37	Carbon Disulfide	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	2	U
38	2-Butanone	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U	10	U
39	Benzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	0.4	U
40	Bromoform	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
43	Styrene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	2	U
45	o-Xylene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
48	Isopropylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
49	n-Propylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
50	tert-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
52	4-Isopropyltoluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
54	Naphthalene	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U	1	U
55	Methyl tert-butyl ether		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1	U
56																														
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																													
58	**Method OR-DEQ**																													
59	**TPH-Diesel**		**0.40**		**0.35**		NA		NA		NA		**0.41**		NA		NA		NA		**0.39**		NA		NA		NA		NA	
60	**TPH-D Motor Oil**		0.50	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																														

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BG	BH
1			
2			
3		J2	
4		0408019-05	
5		8/03/04	
6			
7	**CHLORINATED PHENOLS (µg/L)**		
8	**EPA Method SW8040**		
9	Pentachlorophenol	0.5	U
10	2,4,6-Trichlorophenol	NA	
11	2,3,6-Trichlorophenol	NA	
12	2,4,5-Trichlorophenol	NA	
13	2,3,4-Trichlorophenol	NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA	
15	2,3,4,5-Tetrachlorophenol	NA	
16			
17	**SEMIVOLATILES (µg/L)**		
18	**EPA Method SW8270**		
19	Phenol	2.01	U
20	4-Methylphenol	10.1	U
21	Isophorone	1.01	U
22	2,4-Dimethylphenol	3.02	U
23	Benzoic Acid	20.1	U
24	Naphthalene	1.01	U
25	2-Methylnaphthalene	1.01	U
26	2,4,6-Trichlorophenol	5.04	U
27	2,4,5-Trichlorophenol	5.04	U
28	Acenaphthene	1.01	U
29	Dibenzofuran	1.01	U
30	Fluorene	1.01	U
31	Pentachlorophenol	5.04	U
32	bis(2-Ethylhexyl)phthalate	1.01	U
33			
34	**VOLATILES (µg/L)**		
35	**EPA Method SW8260**		
36	Acetone	50	U
37	Carbon Disulfide	2	U
38	2-Butanone	10	U
39	Benzene	0.3	U
40	Bromoform	1	U
41	Toluene	1	U
42	Ethylbenzene	1	U
43	Styrene	1	U
44	m,p-Xylene	2	U
45	o-Xylene	1	U
46	1,3,5-Trimethylbenzene	1	U
47	1,2,4-Trimethylbenzene	1	U
48	Isopropylbenzene	1	U
49	n-Propylbenzene	1	U
50	tert-Butylbenzene	1	U
51	sec-Butylbenzene	1	U
52	4-Isopropyltoluene	1	U
53	n-Butylbenzene	1	U
54	Naphthalene	1	U
55	Methyl tert-butyl ether	1	U
56			
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**		
58	**Method OR-DEQ**		
59	**TPH-Diesel**	NA	
60	**TPH-D Motor Oil**	NA	
61	**TPH-Gasoline**	NA	
62			

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2
4			S177J		T176Q		U235K		V224P		W371L		Y314J		Z225P		Z960D		AH49D		AU22I		BC27L		BH96S		BR64E		CB49H
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/20/99		12/8/99		2/16/00		5/24/00		8/29/00
63	56	**PRIORITY POLLUTANT**																											
64	57	**METALS (mg/L)**																											
65	58	Arsenic (7060)	**0.011**		**0.012**		0.05	U	0.05	U	**0.010**		**0.008**		**0.008**		**0.009**		**0.006**		**0.010**		**0.010**		**0.012**		**0.006**		**0.004**
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
67	60	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002
68	61	Lead (7421)	0.001	U	0.001	U	0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
70	63	Zinc (6010)	0.004	U	0.004	U	**0.012**		0.004	U	**0.005**	J2	**0.008**		0.004	U	**0.017**	J	**0.004**		**0.005**		0.006	U	0.006	U	**0.008**		0.006
71	64																												
72	65	**MAJOR IONS AND CONVENTIONALS**																											
73	66	Calcium (mg/L) (6010)	**63.6**		**63**		**61.6**		**57.8**		NA		NA		NA		**59.4**		NA		NA		NA		NA		NA		NA
74	67	Magnesium (mg/L) (6010)	**43.1**		**43.9**		**39.7**		**37.1**		NA		NA		NA		**38.5**		NA		NA		NA		NA		NA		NA
75	68	Potassium (mg/L) (6010)	**2.4**		**2.1**		**2.5**		**2.2**		NA		NA		NA		**4.0**		NA		NA		NA		NA		NA		NA
76	69	Sodium (mg/L) (6010)	**17.7**		**17.7**		**18.1**		**17.1**		NA		NA		NA		**18.3**		NA		NA		NA		NA		NA		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**350**		**360**	J2	**170**		**380**		NA		NA		NA		**350**		NA		NA		NA		NA		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA		NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**350**		**360**	J2	**170**		**380**		NA		NA		NA		**350**		NA		NA		NA		NA		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**410**	J2	**360**		**410**		**360**		**390**		**360**		**380**		**350**		**380**		**360**		**330**		**320**		**380**
81	74	Chloride (mg/L) (EPA 325.2)	**7.3**		**7.0**		**9.0**		**8.0**		**8.2**		**7.7**		**8.1**		**8.0**		**6.9**		**6.3**		**7.2**		**7.7**		**5.6**		**4.4**
82	75	N-Nitrate (mg-N/L) (Calculated)	0.010	U	0.010	U	**0.028**		**0.027**	J2	NA		NA		NA		0.010	U	NA		NA		NA		NA		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	**0.022**	J	**0.019**	J2	**0.015**		**0.013**	J2	NA		NA		NA		**0.022**		NA		NA		NA		NA		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.015**		0.010	U	**0.043**		**0.040**	J2	NA		NA		NA		**0.016**		NA		NA		NA		NA		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	2.5	U	2.5	U	2.5	U	2.5	U	NA		NA		NA		**5.7**		NA		NA		NA		NA		NA		NA
86	79																												

BZTO104(e)022464

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
1																														
2																														
3			J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2	
4			CL03I		CT55E		DE68J		DM52A		DW48D		ED23D		EM85E		ES04E		EZ03L		FF76I		FL58J		FU31B		FY64I		0402105-02	
5			11/10/00		2/14/01		6/5/01		8/14/01		11/29/01		2/26/02		6/26/02		08/28/02		11/12/02		2/12/03		5/8/03		8/27/03		10/21/03		2/20/04	
63	**PRIORITY POLLUTANT**																													
64	**METALS (mg/L)**																													
65	Arsenic (7060)		**0.008**		**0.008**		**0.010**		**0.010**		**0.008**		**0.012**		**0.005**		**0.008**		0.05	U	**0.008**		**0.005**		**0.005**		**0.004**		**0.008**	
66	Chromium (6010)	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.002**		0.002	U	**0.003**		0.002	U	0.002	U	0.002	U	0.002	U	**0.004**		0.01	U
68	Lead (7421)	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	0.02	U	**0.001**		0.001	U	0.001	U	0.001	U	**0.0002**	
69	Nickel (6010)	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.005	U
70	Zinc (6010)	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	**0.011**		**0.009**		**0.007**		**0.008**		**0.006**		**0.006**		0.01	U
71																														
72	**MAJOR IONS AND CONVENTIONALS**																													
73	Calcium (mg/L) (6010)		NA		**53.0**		**57.1**		**49.5**		**53.9**		**55.8**		NA		NA		NA		**54.1**		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)		NA		**31.3**		**33.2**		**30.0**		**28.8**		**31.7**		NA		NA		NA		**29.2**		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)		NA		**1.8**		**2.1**		**2.1**		**2.6**		**2.8**		NA		NA		NA		**2.8**		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)		NA		**14.5**		**15.2**		**14.8**		**14.9**		**15.9**		NA		NA		NA		**15**		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		**330**		NA		NA		NA		**370**		NA		NA		NA		**310**		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		1	U	NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		**330**		NA		NA		NA		**370**		NA		NA		NA		**310**		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**340**		**370**		**370**		**350**		**350**		**340**		**290**		**330**		**360**		**330**		**320**		**360**		**340**		**329**	
81	Chloride (mg/L) (EPA 325.2)		**5.1**		**5.0**		**4.2**		**5.9**		**4.3**		**5.3**		**4.8**		**4.1**		**4.6**		**4.5**		**4.6**		**3.9**		**4.1**		**4.42**	
82	N-Nitrate (mg-N/L) (Calculated)		NA		0.010	U	NA		NA		NA		0.010	U	NA		NA		NA		**0.046**		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		0.010	U	NA		NA		NA		**0.013**		NA		NA		NA		**0.012**		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		0.010	U	NA		NA		NA		**0.019**	J	NA		NA		NA		**0.058**		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)		NA		**5.6**		NA		NA		NA		**3.5**		NA		NA		NA		**5.9**		NA		NA		NA		NA	
86																														

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BG	BH
1			
2			
3		J2	
4		0408019-05	
5		8/03/04	
63	**PRIORITY POLLUTANT**		
64	**METALS (mg/L)**		
65	Arsenic (7060)	**0.0108**	
66	Chromium (6010)	0.005	U
67	Copper (6010)	0.01	U
68	Lead (7421)	**0.000186**	
69	Nickel (6010)	0.005	U
70	Zinc (6010)	**0.021**	
71			
72	**MAJOR IONS AND CONVENTIONALS**		
73	Calcium (mg/L) (6010)	NA	
74	Magnesium (mg/L) (6010)	NA	
75	Potassium (mg/L) (6010)	NA	
76	Sodium (mg/L) (6010)	NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**382**	
81	Chloride (mg/L) (EPA 325.2)	**4.62**	
82	N-Nitrate (mg-N/L) (Calculated)	NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA	
85	Sulfate (mg/L) (EPA 375.2)	NA	
86			

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2
4			S177J		T176Q		U235K		V224P		W371L		Y314J		Z225P		Z960D		AH49D		AU22I		BC27L		BH96S		BR64E		CB49H
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/20/99		12/8/99		2/16/00		5/24/00		8/29/00
87	80	**FIELD PARAMETERS**																											
88	81	pH (avg)	6.76		6.74		6.91		6.76		6.49		6.37		6.35		6.89		5.95		6.30		6.56		6.69		6.49		6.71
89	82	Temperature (° C) (avg)	13.9		16.8		13.8		14.3		13.0		16.5		12.7		14.1		14.7		14.9		12.1		13.6		16.1		14.7
90	83	Conductivity (um/hos)	721		650		551		646		663		756		399		683		565		587		631		657		637		584
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		0.73		0.77		2.50		2.54		1.96		2.18		2.42		1.12		0.90		1.10
92	85																												
93	86	**DIOXINS AND FURANS (ng/L)**																											
94	87	**Method 8290**																											
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																													
121																													
122																													

BZTO104(e)022467

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
1																														
2																														
3			J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2	
4			CL03I		CT55E		DE68J		DM52A		DW48D		ED23D		EM85E		ES04E		EZ03L		FF76I		FL58J		FU31B		FY64I		0402105-02	
5			11/10/00		2/14/01		6/5/01		8/14/01		11/29/01		2/26/02		6/26/02		08/28/02		11/12/02		2/12/03		5/8/03		8/27/03		10/21/03		2/20/04	
87	**FIELD PARAMETERS**																													
88	pH (avg)		5.46		6.27		6.72		6.91		6.61		6.62		6.58		6.93		6.61		7.06		6.87		6.73		6.93		6.67	
89	Temperature (° C) (avg)		12.8		13.9		13.7		15.7		13.4		13.8		15.3		15.5		14.1		14		14.5		15.1		16.1		13.9	
90	Conductivity (um/hos)		578		574		619		594		584		592		467		416		456		654		464		523		457		490	
91	Dissolved oxygen (mg/L) (avg)		1.02		0.62		1.12		1.30		3.69		6.76		3.17		1.32		1.19		0		2.73		1.76		3.09		1.64	
92																														
93	**DIOXINS AND FURANS (ng/L)**																													
94	**Method 8290**																													
95	2,3,7,8-TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																														
121																														
122																														

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BG	BH
1			
2			
3		J2	
4		0408019-05	
5		8/03/04	
87	**FIELD PARAMETERS**		
88	pH (avg)	6.16	
89	Temperature (° C) (avg)	15.8	
90	Conductivity (um/hos)	692	
91	Dissolved oxygen (mg/L) (avg)	3.72	
92			
93	**DIOXINS AND FURANS (ng/L)**		
94	**Method 8290**		
95	2,3,7,8-TCDF	NA	
96	Total TCDF	NA	
97	2,3,7,8-TCDD	NA	
98	Total TCDD	NA	
99	1,2,3,7,8-PeCDF	NA	
100	2,3,4,7,8-PeCDF	NA	
101	Total PeCDF	NA	
102	1,2,3,7,8-PeCDD	NA	
103	Total PeCDD	NA	
104	1,2,3,4,7,8-HxCDF	NA	
105	1,2,3,6,7,8-HxCDF	NA	
106	2,3,4,6,7,8-HxCDF	NA	
107	1,2,3,7,8,9-HxCDF	NA	
108	Total HxCDF	NA	
109	1,2,3,4,7,8-HxCDD	NA	
110	1,2,3,6,7,8-HxCDD	NA	
111	1,2,3,7,8,9-HxCDD	NA	
112	Total HxCDD	NA	
113	1,2,3,4,6,7,8-HpCDF	NA	
114	1,2,3,4,7,8,9-HpCDF	NA	
115	Total HpCDF	NA	
116	1,2,3,4,6,7,8-HpCDD	NA	
117	Total HpCDD	NA	
118	OCDF	NA	
119	OCDD	NA	
120			
121			
122			

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2
4			S177J		T176Q		U235K		V224P		W371L		Y314J		Z225P		Z960D		AH49D		AU22I		BC27L		BH96S		BR64E		CB49H
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98		2/17/99		5/18/99		9/20/99		12/8/99		2/16/00		5/24/00		8/29/00
123		**PAHs (µg/L)**																											
124		**EPA Method SW8270 SIM**																											
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
1																														
2																														
3			J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2		J2	
4			CL03I		CT55E		DE68J		DM52A		DW48D		ED23D		EM85E		ES04E		EZ03L		FF76I		FL58J		FU31B		FY64I		0402105-02	
5			11/10/00		2/14/01		6/5/01		8/14/01		11/29/01		2/26/02		6/26/02		08/28/02		11/12/02		2/12/03		5/8/03		8/27/03		10/21/03		2/20/04	
123	**PAHs (µg/L)**																													
124	**EPA Method SW8270 SIM**																													
125	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BG	BH
1			
2			
3		J2	
4		0408019-05	
5		8/03/04	
6			
123	**PAHs (µg/L)**		
124	**EPA Method SW8270 SIM**		
125	Naphthalene	NA	
126	2-Methylnaphthalene	NA	
127	Acenaphthylene	1.01	U
128	Acenaphthene	NA	
129	Fluorene	NA	
130	Anthracene	1.01	U
131	Dibenzofuran	NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
3			LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D	
4			S167L		T176F		U235U		V208G		W371H		Y336H		Z225D		Z960H		AH27H		AU45K		BC21AC		BH75H		BR55F	
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/19/98		11/13/98		2/17/99		5/17/99		9/23/99		12/6/99		2/15/00		5/23/00	
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	**0.60**		0.25	U	0.25	U	0.25	U	0.25	U	**0.16**	J1	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	UJ
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
21	15	Isophorone	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
24	18	Naphthalene	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
25	19	2-Methylnaphthalene	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	1.0	UJ	3.5	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.0**		**6.5**		1.0	U	1.0	U	1.0	U
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
37	31	Carbon Disulfide	1.0	U	1.0	U	**1.4**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	51	**Method OR-DEQ**																										
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.36**		0.25	U	0.25	U	0.25	U	**0.67**		0.25	U	0.25	U	0.25	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
3		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D	
4		CB49B		CK77E		CT37C		DE68E		DM52D		DW48L		ED16I		EM75H		ER92D		EY88F		FF88L		FL41E		FU31D		FY64K	
5		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/29/01		2/25/02		6/25/02		08/26/02		11/11/02		2/13/03		5/7/03		8/27/03		10/21/03	
7	**CHLORINATED PHENOLS (µg/L)**																												
8	**EPA Method SW8040**																												
9	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.26**		**0.26**		0.25	U	0.27	U	0.25	U	0.25	U	0.25	U	0.6	U	0.5	U
10	2,4,6-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
17	**SEMIVOLATILES (µg/L)**																												
18	**EPA Method SW8270**																												
19	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.1	U	2	U	2	U	2	U	2.4	U	2	U
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.2	U	1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.2	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.2	U	3	U	3	U	3	U	3.6	U	3	U
23	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	30	U	50	U	50	U	53	U	50	U	50	U	50	U	60	U	10	U
24	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.2	U	1	U
25	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.2	U	1	U
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	5	U	5	U	5	U	6	U	5	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	5	U	5	U	5	U	6	U	5	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.2	U	1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.2	U	1	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1	U	1	U	1	U	1.2	U	1	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	5	U	5	U	5	U	6	U	5	U
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	4.0	U	4.3	U	4	U	1	U	1	U	1.2	U	1	U
34	**VOLATILES (µg/L)**																												
35	**EPA Method SW8260**																												
36	Acetone	5.0	U	5.0	U	7.6	U	5.0	U	5.0	U	**20**		**6.9**		**6.4**		**16**		5	U	5	U	**6.3**		5	U	**5.1**	
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
38	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U
39	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
45	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
48	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
49	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
50	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
52	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
54	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
58	**Method OR-DEQ**																												
59	**TPH-Diesel**	0.25	U	0.25	U	**0.27**		NA		NA		NA		0.25	U	NA		NA		NA		0.25	U	NA		NA		NA	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D	
4			S167L		T176F		U235U		V208G		W371H		Y336H		Z225D		Z960H		AH27H		AU45K		BC21AC		BH75H		BR55F	
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/19/98		11/13/98		2/17/99		5/17/99		9/23/99		12/6/99		2/15/00		5/23/00	
63	56	**PRIORITY POLLUTANT**																										
64	57	**METALS (mg/L)**																										
65	58	Arsenic (7060)	**0.004**		**0.006**		0.05	U	0.05	U	**0.006**		**0.006**		**0.007**		**0.007**		**0.005**		**0.006**		**0.006**		**0.008**		**0.006**	
66	59	Chromium (6010)	0.005	U	**0.007**		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.007**		**0.006**		0.005	U	0.005	U
67	60	Copper (6010)	0.002	U	**0.009**		**0.004**		**0.003**		0.002	U	0.004		0.002	U	0.002	U	0.002	U	**0.007**		**0.003**		**0.003**		0.002	U
68	61	Lead (7421)	0.001	U	**0.002**		0.02	U	0.02	U	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	**0.003**		**0.001**		**0.002**		**0.001**	
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	0.004	U	**0.019**	J2	**0.021**		**0.010**		**0.008**	J2	**0.014**		**0.006**		**0.009**	J	0.007	U	**0.021**		**0.012**		**0.017**		**0.007**	
71	64																											
72	65	**MAJOR IONS AND CONVENTIONALS**																										
73	66	Calcium (mg/L) (6010)	**69.1**		**71.1**		**72.9**		**65.8**		NA		NA		NA		**63.4**		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**40.5**		**42.6**		**43.1**		**37.0**		NA		NA		NA		**38.6**		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**1.9**		**2.0**		**2.0**		**1.1**		NA		NA		NA		**1.5**		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**15.3**		**16.4**		**16.3**		**15.9**		NA		NA		NA		**15.1**		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**360**		**350**		**360**		**370**		NA		NA		NA		**360**		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**360**		**350**		**360**		**370**		NA		NA		NA		**360**		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**400**	J2	**400**		**370**	J2	**310**		**350**		**310**		**340**		**340**		**360**		**360**		**360**		**350**	
81	74	Chloride (mg/L) (EPA 325.2)	**3.2**	J	**3.0**		**3.5**		**3.3**		**3.9**		**2.0**		**2.8**		**3.6**		**1.6**		**3.2**		**3.7**		**3.5**		**10**	
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.012**	J	0.010	U	**0.017**		**0.021**		NA		NA		NA		0.010	U	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	0.010	U	0.010	U	0.010	U	NA		NA		NA		**0.020**		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.012**	J	0.010	U	**0.017**		**0.021**		NA		NA		NA		**0.020**		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	**3.4**	J	2.5	U	2.5	U	2.5	U	NA		NA		NA		**7.2**		NA		NA		NA		NA		NA	
86	79																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
3		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D	
4		CB49B		CK77E		CT37C		DE68E		DM52D		DW48L		ED16I		EM75H		ER92D		EY88F		FF88L		FL41E		FU31D		FY64K	
5		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/29/01		2/25/02		6/25/02		08/26/02		11/11/02		2/13/03		5/7/03		8/27/03		10/21/03	
63	**PRIORITY POLLUTANT**																												
64	**METALS (mg/L)**																												
65	Arsenic (7060)	**0.006**		**0.005**		**0.006**		**0.005**		**0.006**		**0.006**		**0.006**		**0.005**		**0.006**		0.05	U	**0.006**		**0.006**		**0.006**		**0.006**	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.005**	
67	Copper (6010)	0.002	U	**0.002**	J2	0.002	U	0.002	U	0.002	U	0.003	U	**0.005**		0.002	U	**0.005**		**0.003**		**0.004**		0.002	U	**0.002**		**0.005**	
68	Lead (7421)	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	**0.002**		0.001	U	**0.005**		**0.002**		0.02	U	0.001	U	0.001	U	0.001	U	**0.036**	
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	Zinc (6010)	**0.011**		**0.007**		**0.007**		0.006	U	0.006	U	**0.01**		**0.011**		**0.006**		**0.011**		**0.009**		**0.014**		**0.01**	J	**0.012**		**0.019**	
71																													
72	**MAJOR IONS AND CONVENTIONALS**																												
73	Calcium (mg/L) (6010)	NA		NA		**51.5**		**53.8**		**50.2**		**45.3**		**51.6**		NA		NA		NA		**48.2**		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		**32.5**		**33.0**		**32.0**		**29.2**		**34.0**		NA		NA		NA		**30.9**		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		**1.1**		**1.3**		**1.4**		**1.3**		**1.8**		NA		NA		NA		**1.4**		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		**13.0**		**12.9**		**13.3**		**12.4**		**14.4**		NA		NA		NA		**13.6**		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		**300**		NA		NA		NA		**280**		NA		NA		NA		**270**		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		1	U	NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		**300**		NA		NA		NA		**280**		NA		NA		NA		**270**		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**380**		**360**		**380**		**360**		**360**		**320**		**320**		**300**		**340**		**320**		**280**		**300**		**320**		**330**	
81	Chloride (mg/L) (EPA 325.2)	**3.2**		**3.2**		**3.0**		**3.2**		**3.1**		**2.6**		**3.0**		**1.6**		**2.6**		**2.7**		**4.9**		**3.1**		**2.2**		**2.9**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		0.010	U	NA		NA		NA		0.010	U	NA		NA		NA		**0.031**		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		0.010	U	NA		NA		NA		**0.010**		NA		NA		NA		0.01	U	NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		0.010	UJ	NA		NA		NA		**0.017**		NA		NA		NA		**0.031**		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		**11**		NA		NA		NA		**6.1**		NA		NA		NA		**4.6**		NA		NA		NA	
86																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D	
4			S167L		T176F		U235U		V208G		W371H		Y336H		Z225D		Z960H		AH27H		AU45K		BC21AC		BH75H		BR55F	
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/19/98		11/13/98		2/17/99		5/17/99		9/23/99		12/6/99		2/15/00		5/23/00	
87	80	**FIELD PARAMETERS**																										
88	81	pH (avg)	6.91		6.99		7.14		6.94		6.64		6.61		6.45		6.97		6.05		6.90		6.36		6.88		6.65	
89	82	Temperature (° C) (avg)	14.1		16.5		14.4		14.1		12.7		16.0		13.8		14.6		16.4		15.9		14.1		14.7		14.7	
90	83	Conductivity (um/hos)	678		654		576		594		522		633		137		586		459		488		536		521		482	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		0.95		2.22		2.43		2.41		0.76		3.26		1.89		0.97	
92	85																											
93	86	**DIOXINS AND FURANS (ng/L)**																										
94	87	**Method 8290**																										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121																												
122																												

BZTO104(e)022477

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D	
4		CB49B		CK77E		CT37C		DE68E		DM52D		DW48L		ED16I		EM75H		ER92D		EY88F		FF88L		FL41E		FU31D		FY64K	
5		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/29/01		2/25/02		6/25/02		08/26/02		11/11/02		2/13/03		5/7/03		8/27/03		10/21/03	
87	**FIELD PARAMETERS**																												
88	pH (avg)	6.55		5.47		6.64		6.96		7.11		6.86		6.36		6.86		6.96		7.03		7.12		7.31		7.05		7.07	
89	Temperature (° C) (avg)	15.2		14.0		15.0		15.6		16.3		14.3		14.1		16.0		16.0		14.9		15.5		14.6		16.7		17.1	
90	Conductivity (um/hos)	553		481		476		484		503		467		445		451		389		495		508		411		388		381	
91	Dissolved oxygen (mg/L) (avg)	1.78		2.23		1.51		1.99		1.34		4.23		4.78		5.36		1.91		2.59		0		4.2		1.54		2.51	
92																													
93	**DIOXINS AND FURANS (ng/L)**																												
94	**Method 8290**																												
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																													
121																													
122																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D	
4			S167L		T176F		U235U		V208G		W371H		Y336H		Z225D		Z960H		AH27H		AU45K		BC21AC		BH75H		BR55F	
5			4/1/97		7/15/97		10/23/97		1/28/98		5/18/98		8/19/98		11/13/98		2/17/99		5/17/99		9/23/99		12/6/99		2/15/00		5/23/00	
123		**PAHs (µg/L)**																										
124		**EPA Method SW8270 SIM**																										
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D		LW1D	
4		CB49B		CK77E		CT37C		DE68E		DM52D		DW48L		ED16I		EM75H		ER92D		EY88F		FF88L		FL41E		FU31D		FY64K	
5		8/28/00		11/7/00		2/12/01		6/4/01		8/15/01		11/29/01		2/25/02		6/25/02		08/26/02		11/11/02		2/13/03		5/7/03		8/27/03		10/21/03	
6																													
123	**PAHs (µg/L)**																												
124	**EPA Method SW8270 SIM**																												
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
3			LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D
4			S177F		T176V		U235S		V224M		W391H		Y336C		Z225H		Z960M		AH76I		AU36C		BC27B		BH96K		BR55I		CB49E
5			4/2/97		7/16/97		10/23/97		1/29/98		5/20/98		8/18/98		11/13/98		2/18/99		5/19/99		9/21/99		12/7/99		2/18/00		5/23/00		8/29/00
7	1	**CHLORINATED PHENOLS (µg/L)**																											
8	2	**EPA Method SW8040**																											
9	3	Pentachlorophenol	**0.23**	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
16	10																												
17	11	**SEMIVOLATILES (µg/L)**																											
18	12	**EPA Method SW8270**																											
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.2**		1.0	U	1.0	U	1.0
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	**5.3**	J2	5.4	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
33	27																												
34	28	**VOLATILES (µg/L)**																											
35	29	**EPA Method SW8260**																											
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
37	31	Carbon Disulfide	1.0	U	1.0	U	**4.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
40	34	Bromoform	1.0	U	**1.6**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																												
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																											
58	51	**Method OR-DEQ**																											
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.38**		**0.32**		0.25
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE
1																													
2																													
3			LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D
4			CK77G		CT55C		DE68H		DM52C		DW48A		ED34F		EM85A		ES04B		EZ03A		FF88B		FL66J		FU50A		FY82I		0402113-10
5			11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/28/02		6/26/02		08/28/02		11/12/02		2/13/03		5/9/03		8/29/03		10/24/03		2/23/04
6																													
7	**CHLORINATED PHENOLS (µg/L)**																												
8	**EPA Method SW8040**																												
9	Pentachlorophenol	U	0.25	U	0.25	U	0.25	U	0.25	U	**3.0**		**0.76**		0.25	U	0.29	U	0.25	U	**0.28**		0.25	U	0.55	U	**0.62**		0.489
10	2,4,6-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
11	2,3,6-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
12	2,4,5-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
13	2,3,4-Trichlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
15	2,3,4,5-Tetrachlorophenol	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
16																													
17	**SEMIVOLATILES (µg/L)**																												
18	**EPA Method SW8270**																												
19	Phenol	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.3	U	2.2	U	2	U	2	U	2.2	U	2.2	U	1.97
20	4-Methylphenol	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1.1	U	1.1	U	9.85
21	Isophorone	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1.1	U	1.1	U	0.985
22	2,4-Dimethylphenol	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.5	U	3.3	U	3	U	3	U	3.3	U	3.3	U	2.96
23	Benzoic Acid	U	10	U	10	U	10	U	10	U	30	U	50	U	50	U	58	U	54	U	50	U	50	U	55	U	11	U	19.7
24	Naphthalene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1.1	U	1.1	U	0.985
25	2-Methylnaphthalene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1.1	U	1.1	U	0.985
26	2,4,6-Trichlorophenol	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.8	U	5.4	U	5	U	5	U	5.5	U	5.5	U	4.93
27	2,4,5-Trichlorophenol	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.8	U	5.4	U	5	U	5	U	5.5	U	5.5	U	4.93
28	Acenaphthene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1.1	U	1.1	U	0.985
29	Dibenzofuran	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1.1	U	1.1	U	0.985
30	Fluorene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1.1	U	1.1	U	0.985
31	Pentachlorophenol	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**26**		5.0	U	5.8	U	5.4	U	5	U	5	U	5.5	U	5.5	U	4.93
32	bis(2-Ethylhexyl)phthalate	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.0**		4.0	U	4.0	U	4.7	U	4.3	U	1	U	1	U	1.1	U	1.1	U	0.985
33																													
34	**VOLATILES (µg/L)**																												
35	**EPA Method SW8260**																												
36	Acetone	U	**15**			R	**23**		**38**		**80**		**10**		**50**		**13**		5	U	**12**		**24**		**17**		**64**		50
37	Carbon Disulfide	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	2
38	2-Butanone	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U	10
39	Benzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	0.4
40	Bromoform	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1
41	Toluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1
42	Ethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1
43	Styrene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1
44	m,p-Xylene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	2
45	o-Xylene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1
46	1,3,5-Trimethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1
47	1,2,4-Trimethylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1
48	Isopropylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1
49	n-Propylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1
50	tert-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1
51	sec-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1
52	4-Isopropyltoluene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1
53	n-Butylbenzene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1
54	Naphthalene	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U	1
55	Methyl tert-butyl ether		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1
56																													
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
58	**Method OR-DEQ**																												
59	**TPH-Diesel**	U	0.25	U	**0.28**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
60	**TPH-D Motor Oil**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	**TPH-Gasoline**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BF	BG	BH
1				
2				
3			LW3D	
4			0408044-01	
5			8/06/04	
6				
7	**CHLORINATED PHENOLS (µg/L)**			
8	**EPA Method SW8040**			
9	Pentachlorophenol	U	0.5	U
10	2,4,6-Trichlorophenol		NA	
11	2,3,6-Trichlorophenol		NA	
12	2,4,5-Trichlorophenol		NA	
13	2,3,4-Trichlorophenol		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol		NA	
15	2,3,4,5-Tetrachlorophenol		NA	
16				
17	**SEMIVOLATILES (µg/L)**			
18	**EPA Method SW8270**			
19	Phenol	U	2	U
20	4-Methylphenol	U	10	U
21	Isophorone	U	1	U
22	2,4-Dimethylphenol	U	3	U
23	Benzoic Acid	U	20	U
24	Naphthalene	U	1	U
25	2-Methylnaphthalene	U	1	U
26	2,4,6-Trichlorophenol	U	5	U
27	2,4,5-Trichlorophenol	U	5	U
28	Acenaphthene	U	1	U
29	Dibenzofuran	U	1	U
30	Fluorene	U	1	U
31	Pentachlorophenol	U	5	U
32	bis(2-Ethylhexyl)phthalate	U	1	U
33				
34	**VOLATILES (µg/L)**			
35	**EPA Method SW8260**			
36	Acetone	U	50	U
37	Carbon Disulfide	U	2	U
38	2-Butanone	U	10	U
39	Benzene	U	0.3	U
40	Bromoform	U	1	U
41	Toluene	U	1	U
42	Ethylbenzene	U	1	U
43	Styrene	U	1	U
44	m,p-Xylene	U	2	U
45	o-Xylene	U	1	U
46	1,3,5-Trimethylbenzene	U	1	U
47	1,2,4-Trimethylbenzene	U	1	U
48	Isopropylbenzene	U	1	U
49	n-Propylbenzene	U	1	U
50	tert-Butylbenzene	U	1	U
51	sec-Butylbenzene	U	1	U
52	4-Isopropyltoluene	U	1	U
53	n-Butylbenzene	U	1	U
54	Naphthalene	U	1	U
55	Methyl tert-butyl ether	U	1	U
56				
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**			
58	**Method OR-DEQ**			
59	**TPH-Diesel**		NA	
60	**TPH-D Motor Oil**		NA	
61	**TPH-Gasoline**		NA	
62				

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D
4			S177F		T176V		U235S		V224M		W391H		Y336C		Z225H		Z960M		AH76I		AU36C		BC27B		BH96K		BR55I		CB49E
5			4/2/97		7/16/97		10/23/97		1/29/98		5/20/98		8/18/98		11/13/98		2/18/99		5/19/99		9/21/99		12/7/99		2/18/00		5/23/00		8/29/00
63	56	**PRIORITY POLLUTANT**																											
64	57	**METALS (mg/L)**																											
65	58	Arsenic (7060)	**0.010**		**0.009**		0.05	U	0.05	U	**0.018**		**0.014**		**0.015**		**0.017**		**0.017**		**0.017**		**0.017**		**0.021**		**0.019**		**0.017**
66	59	Chromium (6010)	0.005	U	**0.164**		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
67	60	Copper (6010)	**0.003**		**0.164**		0.002	U	**0.004**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002
68	61	Lead (7421)	0.001	U	**0.062**		0.02	U	0.02	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001
69	62	Nickel (6010)	0.01	U	**0.12**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
70	63	Zinc (6010)	**0.021**		**0.464**		**0.016**		**0.015**		**0.009**	J2	**0.011**		**0.007**		**0.012**	J	**0.009**		**0.012**		0.010	U	**0.011**		0.006	U	**0.015**
71	64																												
72	65	**MAJOR IONS AND CONVENTIONALS**																											
73	66	Calcium (mg/L) (6010)	**54.4**		**82.6**		**58.7**		**61.3**		NA		NA		NA		**62.7**		NA		NA		NA		NA		NA		NA
74	67	Magnesium (mg/L) (6010)	**26.1**		**55.4**		**27.7**		**28.4**		NA		NA		NA		**29.0**		NA		NA		NA		NA		NA		NA
75	68	Potassium (mg/L) (6010)	**3.4**		**11.5**		**3.9**		**3.7**		NA		NA		NA		**3.5**		NA		NA		NA		NA		NA		NA
76	69	Sodium (mg/L) (6010)	**51.0**		**92.1**		**35.7**		**27.8**		NA		NA		NA		**17.8**		NA		NA		NA		NA		NA		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**370**		**340**	J2	**340**		**360**		NA		NA		NA		**350**		NA		NA		NA		NA		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA		NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**370**		**340**	J2	**340**		**360**		NA		NA		NA		**350**		NA		NA		NA		NA		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**360**	J2	**350**		**360**		**380**		**340**		**330**		**380**		**340**		**340**		**360**		**360**		**360**		**410**
81	74	Chloride (mg/L) (EPA 325.2)	**4.8**		**4.3**		**4.9**		**3.9**		**4.7**		**3.1**		**3.5**		**5.3**		**3.5**		**3.4**		**4.5**		**4.3**		**4.4**		**3.5**
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.012**		0.010	U	**0.026**		**0.023**	J2	NA		NA		NA		0.010	U	NA		NA		NA		NA		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	**0.012**	J	**0.012**	J2	**0.014**		0.010	UJ	NA		NA		NA		**0.021**		NA		NA		NA		NA		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.024**		0.010	U	**0.040**		**0.023**	J2	NA		NA		NA		**0.020**		NA		NA		NA		NA		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	**12**	J	**4.3**		2.5	U	**2.6**		NA		NA		NA		**5.4**		NA		NA		NA		NA		NA		NA
86	79																												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE
1																													
2																													
3			LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D
4			CK77G		CT55C		DE68H		DM52C		DW48A		ED34F		EM85A		ES04B		EZ03A		FF88B		FL66J		FU50A		FY82I		0402113-10
5			11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/28/02		6/26/02		08/28/02		11/12/02		2/13/03		5/9/03		8/29/03		10/24/03		2/23/04
63	**PRIORITY POLLUTANT**																												
64	**METALS (mg/L)**																												
65	Arsenic (7060)		**0.016**		**0.015**		**0.016**		**0.018**		**0.020**		**0.016**		**0.019**		**0.016**		0.05	U	**0.014**		**0.016**		**0.018**		**0.018**		**0.014**
66	Chromium (6010)	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.010**		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.006**		**0.006**
67	Copper (6010)	U	**0.004**	J2	0.002	U	0.002	U	0.002	U	0.002	U	**0.004**		**0.002**		**0.003**		**0.002**		0.002	U	**0.003**		**0.003**		**0.004**		0.01
68	Lead (7421)	U	**0.001**		0.001	U	0.001	U	0.001	U	**0.002**		0.001	U	0.001	U	0.001	U	0.02	U	**0.002**		**0.001**		0.001	U	**0.001**		**0.0006**
69	Nickel (6010)	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.005
70	Zinc (6010)		**0.017**		**0.007**		0.006	U	**0.012**		**0.013**		**0.008**		**0.008**		**0.014**		0.006	U	0.006	U	**1.1**		**0.008**		**0.013**		0.01
71																													
72	**MAJOR IONS AND CONVENTIONALS**																												
73	Calcium (mg/L) (6010)		NA		**61.4**		**62.1**		**55.1**		**57.3**		**60.9**		NA		NA		NA		**57.8**		NA		NA		NA		NA
74	Magnesium (mg/L) (6010)		NA		**27.5**		**28.4**		**25.4**		**26.3**		**27.6**		NA		NA		NA		**27.7**		NA		NA		NA		NA
75	Potassium (mg/L) (6010)		NA		**3.2**		**3.5**		**3.4**		**3.2**		**3.9**		NA		NA		NA		**3.6**		NA		NA		NA		NA
76	Sodium (mg/L) (6010)		NA		**13.4**		**13.4**		**12.6**		**13.2**		**14.5**		NA		NA		NA		**13.7**		NA		NA		NA		NA
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		**330**		NA		NA		NA		**350**		NA		NA		NA		**310**		NA		NA		NA		NA
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		1	U	NA		NA		NA		NA
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		**330**		NA		NA		NA		**350**		NA		NA		NA		**310**		NA		NA		NA		NA
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**350**		**360**		**370**		**310**		**330**		**390**		**310**		**380**		**380**		**350**		**330**		**330**		**290**		**350**
81	Chloride (mg/L) (EPA 325.2)		**6.9**		**3.3**		**6.2**		**4.5**		**3.4**		**3.7**		**3.4**		**3.4**		**3.5**		**4.7**		**3.3**		**2.6**		**3.6**		**3.97**
82	N-Nitrate (mg-N/L) (Calculated)		NA		**0.012**		NA		NA		NA		NA		NA		NA		NA		**0.031**		NA		NA		NA		NA
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		0.010	U	NA		NA		NA		NA		NA		NA		NA		**0.032**		NA		NA		NA		NA
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		**0.012**		NA		NA		NA		NA		NA		NA		NA		**0.063**		NA		NA		NA		NA
85	Sulfate (mg/L) (EPA 375.2)		NA		**6.5**		NA		NA		NA		**5.5**		NA		NA		NA		**4.1**		NA		NA		NA		NA
86																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BF	BG	BH
1				
2				
3			LW3D	
4			0408044-01	
5			8/06/04	
63	**PRIORITY POLLUTANT**			
64	**METALS (mg/L)**			
65	Arsenic (7060)		**0.014**	
66	Chromium (6010)		0.005	U
67	Copper (6010)	U	0.01	U
68	Lead (7421)		**0.000392**	
69	Nickel (6010)	U	0.005	U
70	Zinc (6010)	U	0.01	U
71				
72	**MAJOR IONS AND CONVENTIONALS**			
73	Calcium (mg/L) (6010)		NA	
74	Magnesium (mg/L) (6010)		NA	
75	Potassium (mg/L) (6010)		NA	
76	Sodium (mg/L) (6010)		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**359**	
81	Chloride (mg/L) (EPA 325.2)		0.5	U
82	N-Nitrate (mg-N/L) (Calculated)		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA	
85	Sulfate (mg/L) (EPA 375.2)		NA	
86				

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D
4			S177F		T176V		U235S		V224M		W391H		Y336C		Z225H		Z960M		AH76I		AU36C		BC27B		BH96K		BR55I		CB49E
5			4/2/97		7/16/97		10/23/97		1/29/98		5/20/98		8/18/98		11/13/98		2/18/99		5/19/99		9/21/99		12/7/99		2/18/00		5/23/00		8/29/00
87	80	**FIELD PARAMETERS**																											
88	81	pH (avg)	6.76		6.74		6.59		6.87		6.48		6.40		6.21		6.58		6.08		6.44		6.31		6.30		6.55		5.92
89	82	Temperature (° C) (avg)	12.7		16.2		13.4		16.5		13.3		14.2		13.3		12.4		13.9		15.5		12.2		12.3		16.0		14.0
90	83	Conductivity (um/hos)	706		646		627		668		504		673		159		695		635		588		657		667		627		629
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		2.21		1.60		2.22		2.47		1.99		2.10		2.44		2.05		1.49		1.04
92	85																												
93	86	**DIOXINS AND FURANS (ng/L)**																											
94	87	**Method 8290**																											
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																													
121																													
122																													

BZTO104(e)022487

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE
1																													
2																													
3			LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D
4			CK77G		CT55C		DE68H		DM52C		DW48A		ED34F		EM85A		ES04B		EZ03A		FF88B		FL66J		FU50A		FY82I		0402113-10
5			11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/28/02		6/26/02		08/28/02		11/12/02		2/13/03		5/9/03		8/29/03		10/24/03		2/23/04
87	**FIELD PARAMETERS**																												
88	pH (avg)		5.58		6.29		6.56		6.54		6.47		6.50		6.30		6.45		6.39		6.8		6.87		6.52		6.33		6.45
89	Temperature (° C) (avg)		12.7		12.4		13.6		14.4		12.7		12.5		14.4		15.2		13.3		13.1		14.5		15.1		13.0		14.2
90	Conductivity (um/hos)		624		638		655		628		628		617		629		595		664		826		534		525		543		541
91	Dissolved oxygen (mg/L) (avg)		1.28		0.60		0.92		11.14		3.61		7.98		4.43		1.20		1.94		0		4.28		1.13		2.00		0.04
92																													
93	**DIOXINS AND FURANS (ng/L)**																												
94	**Method 8290**																												
95	2,3,7,8-TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	Total TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	2,3,7,8-TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	Total TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	1,2,3,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	2,3,4,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	Total PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	1,2,3,7,8-PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	Total PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	1,2,3,4,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	1,2,3,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	2,3,4,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	1,2,3,7,8,9-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	Total HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	1,2,3,4,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	1,2,3,6,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	1,2,3,7,8,9-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	Total HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	1,2,3,4,7,8,9-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	Total HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	Total HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	OCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	OCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																													
121																													
122																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BF	BG	BH
1				
2				
3			LW3D	
4			0408044-01	
5			8/06/04	
87	**FIELD PARAMETERS**			
88	pH (avg)		5.93	
89	Temperature (° C) (avg)		14.7	
90	Conductivity (um/hos)		836	
91	Dissolved oxygen (mg/L) (avg)		3.8	
92				
93	**DIOXINS AND FURANS (ng/L)**			
94	**Method 8290**			
95	2,3,7,8-TCDF		NA	
96	Total TCDF		NA	
97	2,3,7,8-TCDD		NA	
98	Total TCDD		NA	
99	1,2,3,7,8-PeCDF		NA	
100	2,3,4,7,8-PeCDF		NA	
101	Total PeCDF		NA	
102	1,2,3,7,8-PeCDD		NA	
103	Total PeCDD		NA	
104	1,2,3,4,7,8-HxCDF		NA	
105	1,2,3,6,7,8-HxCDF		NA	
106	2,3,4,6,7,8-HxCDF		NA	
107	1,2,3,7,8,9-HxCDF		NA	
108	Total HxCDF		NA	
109	1,2,3,4,7,8-HxCDD		NA	
110	1,2,3,6,7,8-HxCDD		NA	
111	1,2,3,7,8,9-HxCDD		NA	
112	Total HxCDD		NA	
113	1,2,3,4,6,7,8-HpCDF		NA	
114	1,2,3,4,7,8,9-HpCDF		NA	
115	Total HpCDF		NA	
116	1,2,3,4,6,7,8-HpCDD		NA	
117	Total HpCDD		NA	
118	OCDF		NA	
119	OCDD		NA	
120				
121				
122				

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D
4			S177F		T176V		U235S		V224M		W391H		Y336C		Z225H		Z960M		AH76I		AU36C		BC27B		BH96K		BR55I		CB49E
5			4/2/97		7/16/97		10/23/97		1/29/98		5/20/98		8/18/98		11/13/98		2/18/99		5/19/99		9/21/99		12/7/99		2/18/00		5/23/00		8/29/00
6																													
123		**PAHs (µg/L)**																											
124		**EPA Method SW8270 SIM**																											
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE
1																													
2																													
3			LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D		LW3D
4			CK77G		CT55C		DE68H		DM52C		DW48A		ED34F		EM85A		ES04B		EZ03A		FF88B		FL66J		FU50A		FY82I		0402113-10
5			11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/28/02		6/26/02		08/28/02		11/12/02		2/13/03		5/9/03		8/29/03		10/24/03		2/23/04
6																													
123	**PAHs (µg/L)**																												
124	**EPA Method SW8270 SIM**																												
125	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127	Acenaphthylene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128	Acenaphthene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129	Fluorene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130	Anthracene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BF	BG	BH
1				
2				
3			LW3D	
4			0408044-01	
5			8/06/04	
6				
123	**PAHs (µg/L)**			
124	**EPA Method SW8270 SIM**			
125	Naphthalene		NA	
126	2-Methylnaphthalene		NA	
127	Acenaphthylene		1	U
128	Acenaphthene		NA	
129	Fluorene		NA	
130	Anthracene		1	U
131	Dibenzofuran		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
2							Dup of LW4D										Dup of LW4D				Dup of LW4D				Dup of LW4D
3			LW4D		LW4D		LW40D		LW4D		LW4D		LW4D (a)		LW4D		LW40D		LW4D		LW40D		LW4D		LW40D
4			S167I		T176M		T176L		U235N		V232F		B802035-02		W391E		W391I		Y314E		Y314B		Z225J		Z225L
5			4/1/97		7/16/97		7/16/97		10/22/97		1/30/98		1/30/98		5/20/98		5/20/98		8/17/98		8/17/98		11/14/98		11/14/98
7	1	**CHLORINATED PHENOLS (µg/L)**																							
8	2	**EPA Method SW8040**																							
9	3	Pentachlorophenol	**450**		**8200**		**7200**		**8700**		**14000**		**16500**		**4300**		**4400**		**3300**		**3300**		**2400**		**2300**
10	4	2,4,6-Trichlorophenol	**0.44**		**4.0**		**3.7**		**4.8**		**8.8**		NA		**5.3**		**5.4**		**6.3**		**6.5**		**20**	J2	**16**
11	5	2,3,6-Trichlorophenol	0.29	U	1.8	U	1.8	U	0.73	U	0.25	U	NA		0.25	U	0.25	U	0.82	U	0.90	U	0.46	U	0.47
12	6	2,4,5-Trichlorophenol	11	U	39	U	30	U	76	U	**39**		NA		**90**		**90**		51	U	51	U	60	U	26
13	7	2,3,4-Trichlorophenol	0.28	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**20**		**880**		**770**		**600**		**940**		**746**		**240**		**250**		**270**		**280**		**210**	J2	**160**
15	9	2,3,4,5-Tetrachlorophenol	**6.1**		**29**		**26**		**19**		**20**		NA		50	U	50	U	**16**		**14**		**8.4**		**8.4**
16	10																								
17	11	**SEMIVOLATILES (µg/L)**																							
18	12	**EPA Method SW8270**																							
19	13	Phenol	**150**		**180**		**200**		**58**		**30**		100	U	**16**		**17**		**10**		**8.1**		**7.7**		**7.6**
20	14	4-Methylphenol	**11**		**33**		**32**		1.0	U	**8.7**		100	U	**16**		**15**		1.0	U	1.0	U	**10**		**9.4**
21	15	Isophorone	1.0	U	1.0	U	1.0	U	**1.8**		**2.3**		NA		1.0	U	1.0	U	**1.1**		1.0	U	1.0	U	1.0
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	200	U	**17**	J2	**18**	J2	3.0	U	3.0	U	3.0	U	3.0
23	17	Benzoic Acid	**22**		**28**	J2	**47**	J2	10	U	10	U	NA		10	U	10	U	10	U	10	U	10	U	10
24	18	Naphthalene	**35**		**44**		**46**		**36**		**30**		NA		**16**	J2	**21**	J2	**18**	J2	**23**	J2	**28**		**28**
25	19	2-Methylnaphthalene	**52**		**67**		**74**		**45**		**44**		NA		**24**	J2	**32**	J2	**42**		**49**		**57**		**58**
26	20	2,4,6-Trichlorophenol	5.0	U	**8.0**		**9.4**		**7.5**		**9.3**		100	U	**7.3**	J2	**9.4**	J2	5.0	U	5.0	U	**18**	J2	**20**
27	21	2,4,5-Trichlorophenol	**14**		**43**		**49**		**69**		**78**		100	U	**57**		**60**		**7.4**		**6.7**		**69**		**66**
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
31	25	Pentachlorophenol	**390**		**10000**		**12000**		**18000**		**16000**		**13500**		**5300**		**5200**		**3100**		**2900**		**4600**		**3800**
32	26	bis(2-Ethylhexyl)phthalate	10	UJ	1.0	U	1.0	U	**2.0**		1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
33	27																								
34	28	**VOLATILES (µg/L)**																							
35	29	**EPA Method SW8260**																							
36	30	Acetone	**16**		**42**		**43**		**25**		**29**		NA		**17**		**17**		**11**		**9.2**		**12**		**13**
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
38	32	2-Butanone	5.0	U	**12**		**12**		5.0	U	5.0	U	NA		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
41	35	Toluene	**10**		**6.4**		**6.3**		**17**		**11**		NA		**5.4**		**5.4**		**10**		**9.6**		**5.7**		**5.0**
42	36	Ethylbenzene	**140**		**190**		**190**		**180**		**130**		NA		**12**		**13**		**100**		**95**		**93**		**80**
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
44	38	m,p-Xylene	**390**		**580**		**600**		**730**		**500**		NA		**450**		**450**		**320**		**320**		**340**		**300**
45	39	o-Xylene	**77**		**140**		**140**		**150**		**100**		NA		**110**		**110**		**120**		**95**		**94**		**78**
46	40	1,3,5-Trimethylbenzene	**170**		**190**		**180**		**330**		**140**		NA		**160**		**150**		**180**		**170**		**120**		**99**
47	41	1,2,4-Trimethylbenzene	**580**		**630**		720		**1100**	J2	**560**		NA		**480**		**550**		**590**		**570**		**460**	J2	**590**
48	42	Isopropylbenzene	**110**		**120**		**120**		**140**	J2	**81**		NA		**7.5**		**7.4**		**100**		**85**		**54**		**46**
49	43	n-Propylbenzene	**140**		**160**		**150**		**190**		**110**		NA		**7.6**		**7.3**		**120**		**110**		**78**		**65**
50	44	tert-Butylbenzene	1.0	U	1.0	U	**4.1**	J2	**3.8**		**2.6**		NA		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
51	45	sec-Butylbenzene	**15**		**20**		**18**		**18**	J2	**12**		NA		1.0	U	1.0	U	**22**	J2	1.0	UJ	1.0	U	1.0
52	46	4-Isopropyltoluene	**10**		**15**		**14**		**14**	J2	**10**		NA		**5.4**		**5.4**		**15**		**12**		**8.5**		**6.8**
53	47	n-Butylbenzene	**14**		**20**		**18**		**17**	J2	**13**		NA		4.4	U	4.2	U	**21**	J2	**16**	J2	**12**	J2	**8.9**
54	48	Naphthalene	**54**		**87**		**84**		**92**	J2	**78**		NA		**41**		**41**		**50**		**48**		**28**		**28**
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																								
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																							
58	51	**Method OR-DEQ**																							
59	52	**TPH-Diesel**	**7.2**		**12**		**12**		**15**		**11**		NA		**7.2**		**6.8**		**6.5**	J2	**8.2**	J2	**4.6**		**4.6**
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																								

BZTO104(e)022493

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX
2					Dup of LW4D						Dup of LW4D				Dup of LW4D											
3			LW4D		LW40D		LW4D		LW4D		LW40D		LW4D		LW40D		LW4D		LW4D		LW4D		LW4D		LW4D	
4			Z960P		Z960K		AH49H		AU45G		AU45I		BC21J		BC27P		BH96E		BR55D		CB68D		CL03G		CT67D	
5			2/17/99		2/17/99		5/18/99		9/22/99		9/22/99		12/9/99		12/9/99		2/17/00		5/22/00		8/30/00		11/9/00		2/15/01	
7	**CHLORINATED PHENOLS (µg/L)**																									
8	**EPA Method SW8040**																									
9	Pentachlorophenol		**2300**		**2400**		**2.5**		**0.85**	J2	**0.58**	J2	**1.5**	J2	**3.4**	J2	**0.60**		**0.41**	J2	**0.30**		0.25	U	0.25	U
10	2,4,6-Trichlorophenol	J2	**9.6**	J	**13**	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
11	2,3,6-Trichlorophenol	U	1.2	U	1.1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
12	2,4,5-Trichlorophenol	U	80	U	48	U	0.39	U	0.25	U	0.25	U	0.34	U	0.69	U	0.25	U	0.25	U	0.41	U	0.25	U	NA	
13	2,3,4-Trichlorophenol	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	J2	**130**		**140**		**0.26**		0.25	U	0.25	U	**1.4**	J2	**3.0**	J2	0.25	U	0.25	U	0.25	U	0.25	U	NA	
15	2,3,4,5-Tetrachlorophenol		**67**	J	**42**	J	**0.49**		0.25	U	0.25	U	0.25	U	**0.19**	J1	0.25	U	0.25	U	0.25	U	0.25	U	NA	
16																										
17	**SEMIVOLATILES (µg/L)**																									
18	**EPA Method SW8270**																									
19	Phenol		**23**		**25**		2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	**110**		2.0	U	2.0	U
20	4-Methylphenol		**7.5**		**7.7**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
21	Isophorone	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	2,4-Dimethylphenol	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	Benzoic Acid	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	**11**		10	U	10	U
24	Naphthalene		**23**		**25**		1.0	U	**27**	J2	**14**	J2	**19**		**19**		**24**		**10**		**11**		**5.4**		**2.1**	
25	2-Methylnaphthalene		**64**		**65**		1.0	U	**41**	J2	**22**	J2	**30**		**30**		**30**		**18**		**18**		**11**		**11**	
26	2,4,6-Trichlorophenol	J2	**12**		**11**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	2,4,5-Trichlorophenol		**59**		**55**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	Acenaphthene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	Dibenzofuran	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	Fluorene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	Pentachlorophenol		**4000**		**3700**		**6.5**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**8.9**		5.0	U	5.0	U
32	bis(2-Ethylhexyl)phthalate	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**0.7**	J1	**0.7**	J1	1.0	U	1.0	U	1.0	U	2.8	U	1.0	U
33																										
34	**VOLATILES (µg/L)**																									
35	**EPA Method SW8260**																									
36	Acetone		**16**		**15**		**16**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	25	U	17	U	5.0	U
37	Carbon Disulfide	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U
38	2-Butanone	U	15	U	**7.4**		**8.2**		**28**		**32**		5.0	U	5.0	U	5.0	U	5.0	U	25	U	**14**		**26**	
39	Benzene	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.2**		5.0	U	1.0	U	1.0	U
40	Bromoform	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U
41	Toluene		**6.0**		**6.5**		**11**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.4**		5.0	U	1.0	U	1.0	U
42	Ethylbenzene		**52**		**62**		**220**		**39**		**38**		**21**		**21**		**18**		**22**		**39**		**1.3**		**1.3**	
43	Styrene	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U
44	m,p-Xylene		**320**		**320**		**720**		**110**		**110**		**88**		**90**		**76**		**100**		**120**		**3.6**		**3.0**	
45	o-Xylene		**84**		**95**		**130**		**5.4**		**4.5**		**20**		**20**		**8.1**		**11**		**13**		1.0	U	1.0	U
46	1,3,5-Trimethylbenzene		**170**		**140**		**160**		**70**		**70**		**94**		**96**		**90**		**70**		**50**		**12**		**14**	
47	1,2,4-Trimethylbenzene	J2	**550**		**520**		**700**		**320**		**310**		**260**		**280**		**290**		**300**		**270**		**240**		**120**	
48	Isopropylbenzene		**42**		**43**		**92**		**65**		**68**		**40**		**39**		**79**		**54**		**62**		**56**		**58**	
49	n-Propylbenzene		**51**		**54**		**130**		**69**		**71**		**45**		**45**		**87**		**61**		**76**		**60**		**60**	
50	tert-Butylbenzene	U	**3.0**		**2.9**		**4.3**		1.0	U	1.0	U	**2.0**		**2.0**		**4.2**		**2.6**		5.0	U	**2.9**		**2.8**	
51	sec-Butylbenzene	U	**8.3**		**9.2**		**16**		**14**		**14**		**7.3**		**7.3**		**15**		**9.8**		**11**		**9.1**		**9.8**	
52	4-Isopropyltoluene		**8.3**		**8.1**		**11**		**7.6**		**6.9**		**7.3**		**7.5**		**6.6**		**4.3**		**7.6**		1.0	U	1.0	U
53	n-Butylbenzene	J2	**9.7**		**10**		**16**		12	U	12	U	8.0	U	8.3	U	**14**		9.2	U	9.7	U	**7.0**		**7.8**	
54	Naphthalene		**41**		**44**		**57**		**34**		**33**		**28**		**30**		**50**		**34**		**26**		**12**		**8.9**	
55	Methyl tert-butyl ether		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																										
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																									
58	**Method OR-DEQ**																									
59	**TPH-Diesel**		**6.9**		**7.3**		**5.0**		**4.2**	J2	**3.2**	J2	**3.1**		**2.9**		**3.8**		**2.8**		**3.3**		**5.4**		**4.4**	
60	**TPH-D Motor Oil**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.50	U	NA	
61	**TPH-Gasoline**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																										

BZTO104(e)022494

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV
3		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D	
4		DE87K		DM30D		DW29G		ED30H		EN00H		ER93L		EZ17F		FF65G		FL58E		FU45N		FY82L		0402113-08	
5		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/13/02		2/11/03		5/8/03		8/28/03		10/24/03		2/23/04	
7	**CHLORINATED PHENOLS (µg/L)**																								
8	**EPA Method SW8040**																								
9	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.3	U	0.25	U	0.26	U	0.26	U	**1**	J	0.5	U	NA	
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																									
17	**SEMIVOLATILES (µg/L)**																								
18	**EPA Method SW8270**																								
19	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.4	U	2.3	U	2.1	U	2	U	2	U	2	U	1.93	U
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1	U	1	U	9.64	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1	U	1	U	0.964	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.6	U	3.4	U	3.1	U	3.1	U	3.1	U	3	U	2.89	U
23	Benzoic Acid	10	U	10	U	30	U	50	U	50	U	60	U	57	U	52	U	51	U	51	U	10	U	19.3	U
24	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1	U	1	U	**4.12**	
25	2-Methylnaphthalene	**3.6**		**3.3**		**1.4**		**1.8**		**1.6**		1.2	U	1.1	U	1	U	1	U	1	U	1	U	**11.7**	
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	6	U	5.7	U	5.2	U	5.1	U	5.1	U	5	U	4.82	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	6	U	5.7	U	5.2	U	5.1	U	5.1	U	5	U	4.82	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1	U	1	U	0.964	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1	U	1	U	0.964	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1	U	1	U	0.964	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	6	U	5.7	U	5.2	U	5.1	U	5.1	U	5	U	**8.95**	
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	4.0	U	4.0	U	4.8	U	4.5	U	1	U	1	U	1	U	1	U	0.964	U
33																									
34	**VOLATILES (µg/L)**																								
35	**EPA Method SW8260**																								
36	Acetone	**22**		**42**		**77**		**14**		20	U	**8.2**		9	U	**96**		**11**	M	**12**	J	**6.6**	M	50	U
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	2	U
38	2-Butanone	**14**		5.0	U	5.0	U	**14**		5.0	U	**13**	M	5	U	5	U	5	U	**13**	M	**9.1**	M	10	U
39	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	0.4	U
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	**1.4**		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	2	U
45	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	**13**		**3.4**		**1.4**		**2.4**		**1.1**		1	U	1	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	**84**		**49**		**7.2**		**48**		**9.5**		**15**		1	U	**3**		**5.5**		1	U	**1.4**		1	U
48	Isopropylbenzene	**31**		**14**		**3.9**		**14**		**5.0**		**5.7**		**4.2**		**3.7**		**7**		**2.6**		**1.9**		**2.46**	
49	n-Propylbenzene	**39**		**16**		**5.2**		**14**		**5.1**		**4.9**		**4.2**		**2.9**		**5.3**		**1.6**		**1.6**		**1**	
50	tert-Butylbenzene	**1.7**		**1.3**	M	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	**7.4**		**4.1**		**1.6**		**2.8**		**1.7**		**1.8**		**1.3**		1	U	**1.6**		1	U	1	U	1	U
52	4-Isopropyltoluene	**2.3**		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	**6.2**		**3.4**	M	1.7	U	**2.3**		1.6	U	**1.6**		**1.1**	M	1	U	**1.2**		1	U	1	U	1	U
54	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U	1	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1	U
56																									
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	**Method OR-DEQ**																								
59	**TPH-Diesel**	**3.5**		**3.4**		**1.8**		**4.0**		**2.8**		**3.2**		**2.4**		**3**		**2.6**		**1.8**		**1.6**		**1**	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.5	U	0.504	U
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1																									
2							Dup of LW4D										Dup of LW4D				Dup of LW4D				Dup of LW4D
3			LW4D		LW4D		LW40D		LW4D		LW4D		LW4D (a)		LW4D		LW40D		LW4D		LW40D		LW4D		LW40D
4			S167I		T176M		T176L		U235N		V232F		B802035-02		W391E		W391I		Y314E		Y314B		Z225J		Z225L
5			4/1/97		7/16/97		7/16/97		10/22/97		1/30/98		1/30/98		5/20/98		5/20/98		8/17/98		8/17/98		11/14/98		11/14/98
63	56	**PRIORITY POLLUTANT**																							
64	57	**METALS (mg/L)**																							
65	58	Arsenic (7060)	**0.024**		**0.025**		**0.025**		0.05	U	0.05	U	NA		**0.028**		**0.028**		**0.028**		**0.029**		**0.028**		**0.030**
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	NA		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
67	60	Copper (6010)	**0.003**		**0.004**		**0.003**		**0.002**		**0.005**		NA		**0.002**		**0.002**		**0.003**		**0.003**		0.002	U	0.002
68	61	Lead (7421)	0.001	U	0.001	U	0.001	U	0.02	U	0.02	U	NA		0.001	U	0.001	U	**0.001**		**0.001**		0.001	U	0.001
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	NA		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
70	63	Zinc (6010)	0.004	U	**0.008**	J2	**0.005**	J2	**0.023**		**0.014**		NA		0.004	U	**0.010**	J2	**0.006**		**0.010**		**0.007**		**0.006**
71	64																								
72	65	**MAJOR IONS AND CONVENTIONALS**																							
73	66	Calcium (mg/L) (6010)	**49.9**		**49.7**		**51**		**45.6**		**42.2**		NA		NA		NA		NA		NA		NA		NA
74	67	Magnesium (mg/L) (6010)	**21.9**		**21.7**		**22.3**		**19.4**		**17.7**		NA		NA		NA		NA		NA		NA		NA
75	68	Potassium (mg/L) (6010)	**1.2**		**1.0**		**1.0**		**1.2**		**1.0**		NA		NA		NA		NA		NA		NA		NA
76	69	Sodium (mg/L) (6010)	**10.9**		**10.4**		**10.6**		**10.1**		**9.60**		NA		NA		NA		NA		NA		NA		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**240**		**200**		**200**		**200**		**140**		NA		NA		NA		NA		NA		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**240**		**200**		**200**		**200**		**140**		NA		NA		NA		NA		NA		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**240**	J2	**340**	J2	**260**		**250**	J2	NA		**240**		**230**		**240**		**270**		**270**		**280**
81	74	Chloride (mg/L) (EPA 325.2)	**19**	J	**15**		**15**		**16**		**15**		NA		**13**		**12**		**13**		**12**		**11**		**13**
82	75	N-Nitrate (mg-N/L) (Calculated)	0.010	U	0.010	U	0.010	U	**0.025**		0.010	UJ	NA		NA		NA		NA		NA		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	**0.026**	J	**0.032**	J2	**0.025**	J2	**0.010**		**0.019**	J2	NA		NA		NA		NA		NA		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.019**	J	**0.01**		**0.01**		**0.035**		**0.010**	J2	NA		NA		NA		NA		NA		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	**3.2**	J	2.5	U	**2.5**	U	2.5	U	2.5	U	NA		NA		NA		NA		NA		NA		NA
86	79																								

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX
1																										
2					Dup of LW4D						Dup of LW4D				Dup of LW4D											
3			LW4D		LW40D		LW4D		LW4D		LW40D		LW4D		LW40D		LW4D		LW4D		LW4D		LW4D		LW4D	
4			Z960P		Z960K		AH49H		AU45G		AU45I		BC21J		BC27P		BH96E		BR55D		CB68D		CL03G		CT67D	
5			2/17/99		2/17/99		5/18/99		9/22/99		9/22/99		12/9/99		12/9/99		2/17/00		5/22/00		8/30/00		11/9/00		2/15/01	
63	**PRIORITY POLLUTANT**																									
64	**METALS (mg/L)**																									
65	Arsenic (7060)		**0.030**		**0.029**		**0.029**		**0.030**		**0.033**		**0.024**		**0.025**		**0.030**		**0.025**		**0.029**		**0.028**		**0.03**	
66	Chromium (6010)	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.007**		**0.008**		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	U	**0.005**		**0.005**		0.002	U	**0.004**		**0.003**		**0.011**		**0.012**		**0.007**		0.002	U	**0.002**		**0.004**		**0.005**	
68	Lead (7421)	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.002**		**0.002**		**0.001**		0.001	U	0.001	U	0.001	U
69	Nickel (6010)	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.01**		0.01	U	0.01	U	0.01	U	0.01	U
70	Zinc (6010)		**0.009**	J	**0.008**	J	**0.005**		**0.007**	J2	**0.016**	J2	0.020	U	0.021	U	**0.019**		**0.008**		**0.020**		**0.013**		**0.016**	
71																										
72	**MAJOR IONS AND CONVENTIONALS**																									
73	Calcium (mg/L) (6010)		**50.4**		**51.7**		NA		NA		NA		NA		NA		NA		NA		NA		NA		**71.3**	
74	Magnesium (mg/L) (6010)		**21.6**		**22.0**		NA		NA		NA		NA		NA		NA		NA		NA		NA		**30.1**	
75	Potassium (mg/L) (6010)		**0.7**	J	**0.9**	J	NA		NA		NA		NA		NA		NA		NA		NA		NA		**1.6**	
76	Sodium (mg/L) (6010)		**10.6**		**10.9**		NA		NA		NA		NA		NA		NA		NA		NA		NA		**14.5**	
77	Alkalinity (mg/L CaCO3) (SM 2320)		**210**		**210**		NA		NA		NA		NA		NA		NA		NA		NA		NA		**360**	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		1.0	U	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		1.0	U
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		**210**		**210**		NA		NA		NA		NA		NA		NA		NA		NA		NA		**360**	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**360**		**320**		**310**		**300**		**270**		**260**		**290**		**270**		**270**		**360**		**370**		**430**	
81	Chloride (mg/L) (EPA 325.2)		**17**		**18**		**12**		**12**		**12**		**13**		**14**		**12**		**12**		**9.8**		**16**		**24**	J
82	N-Nitrate (mg-N/L) (Calculated)		**0.010**		0.010	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.010	U
83	N-Nitrite (mg-N/L) (EPA 354.1)		**0.015**	J	**0.023**	J	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.037**	J
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		**0.025**	J	**0.018**	J	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.045**	
85	Sulfate (mg/L) (EPA 375.2)		**6.1**	J	**8.8**	J	NA		NA		NA		NA		NA		NA		NA		NA		NA		**8.6**	
86																										

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV
1																									
2																									
3		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D	
4		DE87K		DM30D		DW29G		ED30H		EN00H		ER93L		EZ17F		FF65G		FL58E		FU45N		FY82L		0402113-08	
5		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/13/02		2/11/03		5/8/03		8/28/03		10/24/03		2/23/04	
63	**PRIORITY POLLUTANT**																								
64	**METALS (mg/L)**																								
65	Arsenic (7060)	**0.028**		**0.032**		**0.022**		**0.040**		**0.027**		**0.028**		0.05	U	**0.03**		**0.04**		**0.04**		**0.028**		**0.031**	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.009**		**0.01**	
67	Copper (6010)	**0.003**		**0.004**		**0.003**		**0.004**		**0.003**		**0.004**		**0.004**		**0.002**		**0.002**		**0.005**		**0.006**		0.01	U
68	Lead (7421)	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	**0.002**		0.02	U	0.001	U	**0.002**		0.001	U	0.001	U	**0.0010**	
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.02**		0.01	U	0.005	U
70	Zinc (6010)	**0.011**		0.012		**0.011**		**0.010**	J	**0.009**		**0.009**		**0.011**		**0.021**		**0.009**		**0.006**		**0.017**		0.01	U
71																									
72	**MAJOR IONS AND CONVENTIONALS**																								
73	Calcium (mg/L) (6010)	**74.5**		**81.3**		**57.1**		**67.1**		**65.9**		NA		NA		**56.5**		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	**31.0**		**35.2**		**25.2**		**31.9**		**29.4**		NA		NA		**25.9**		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	**1.4**		**1.5**		**1.8**		**1.0**		**1.3**		NA		NA		**1.4**		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	**14.5**		**16.5**		**16.4**		**15.9**		**18.2**		NA		NA		**16.1**		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		**430**		NA		NA		NA		**330**		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		1.0	U	NA		NA		NA		1	U	NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		**430**		NA		NA		NA		**330**		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**460**	J	**430**	J	**350**		**400**		**360**		**430**		**390**		**360**		**400**		**390**		**340**		**417**	
81	Chloride (mg/L) (EPA 325.2)	**18**		**18**		**12**		**14**	J	**15**		**13**		**15**		**15**		**11**		**7.8**		**11**		**9.75**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		**0.012**		NA		NA		NA		0.01	U	NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		**0.012**		NA		NA		NA		**0.052**		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		**0.024**		NA		NA		NA		**0.045**		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		**9.5**		NA		NA		NA		**8.5**		NA		NA		NA		NA	
86																									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1																									
2							Dup of LW4D										Dup of LW4D				Dup of LW4D				Dup of LW4D
3			LW4D		LW4D		LW40D		LW4D		LW4D		LW4D (a)		LW4D		LW40D		LW4D		LW40D		LW4D		LW40D
4			S167I		T176M		T176L		U235N		V232F		B802035-02		W391E		W391I		Y314E		Y314B		Z225J		Z225L
5			4/1/97		7/16/97		7/16/97		10/22/97		1/30/98		1/30/98		5/20/98		5/20/98		8/17/98		8/17/98		11/14/98		11/14/98
87	80	**FIELD PARAMETERS**																							
88	81	pH (avg)	6.65		6.67		6.67		6.94		6.84		6.84		6.51		6.51		6.49		6.48		6.39		6.37
89	82	Temperature (° C) (avg)	12.9		15.1		14.9		13.6		13.5		13.5		13.3		13.3		18.1		18.3		13.5		13.3
90	83	Conductivity (um/hos)	559		491		490		375		381		381		368		367		557		560		120		120
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		NA		NA		1.74		1.74		1.00		1.00		1.44		1.80
92	85																								
93	86	**DIOXINS AND FURANS (ng/L)**																							
94	87	**Method 8290**																							
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		0.0027	U	NA		NA		NA		0.0049	U	NA		0.0023	U	NA
96	89	Total TCDF	NA		NA		NA		NA		0.0027	U	NA		NA		NA		0.0049	U	NA		0.0023	U	NA
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		0.0029	U	NA		NA		NA		0.0063	U	NA		0.0045	U	NA
98	91	Total TCDD	NA		NA		NA		NA		0.0029	U	NA		NA		NA		0.0063	U	NA		0.0045	U	NA
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		0.0018	U	NA		NA		NA		0.0035	U	NA		**0.0012**		NA
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		0.0019	U	NA		NA		NA		0.0050	U	NA		0.0034	U	NA
101	94	Total PeCDF	NA		NA		NA		NA		0.0019	U	NA		NA		NA		0.0043	U	NA		**0.0012**		NA
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		0.0052	U	NA		NA		NA		0.0071	U	NA		0.0072	U	NA
103	96	Total PeCDD	NA		NA		NA		NA		0.0052	U	NA		NA		NA		**0.019**		NA		0.0072	U	NA
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		0.0024	U	NA		NA		NA		0.0880	U	NA		0.0059	U	NA
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		0.0026	U	NA		NA		NA		0.0390	U	NA		0.0020	U	NA
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		0.0049	U	NA		NA		NA		0.0088	U	NA		0.0049	U	NA
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		0.0052	U	NA		NA		NA		**0.066**		NA		0.0036	U	NA
108	101	Total HxCDF	NA		NA		NA		NA		0.0110	U	NA		NA		NA		**0.210**		NA		0.0041	U	NA
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		0.0032	U	NA		NA		NA		0.0140	U	NA		0.0056	U	NA
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		0.0044	U	NA		NA		NA		0.0097	U	NA		0.0043	U	NA
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		0.0031	U	NA		NA		NA		0.0048	U	NA		0.0040	U	NA
112	105	Total HxCDD	NA		NA		NA		NA		0.0036	U	NA		NA		NA		**0.043**		NA		0.0046	U	NA
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		0.0140	U	NA		NA		NA		0.0140	U	NA		0.0038	U	NA
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		0.0030	U	NA		NA		NA		0.0062	U	NA		0.0022	U	NA
115	108	Total HpCDF	NA		NA		NA		NA		0.0220	U	NA		NA		NA		**0.022**		NA		0.0030	U	NA
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		**0.0240**		NA		NA		NA		**0.031**		NA		**0.0095**		NA
117	110	Total HpCDD	NA		NA		NA		NA		**0.0400**		NA		NA		NA		**0.045**		NA		**0.0160**		NA
118	111	OCDF	NA		NA		NA		NA		**0.0140**		NA		NA		NA		**0.032**		NA		**0.0088**		NA
119	112	OCDD	NA		NA		NA		NA		**0.1500**		NA		NA		NA		**0.300**		NA		**0.0720**		NA
120																									
121																									
122																									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX
1																										
2					Dup of LW4D						Dup of LW4D				Dup of LW4D											
3			LW4D		LW40D		LW4D		LW4D		LW40D		LW4D		LW40D		LW4D		LW4D		LW4D		LW4D		LW4D	
4			Z960P		Z960K		AH49H		AU45G		AU45I		BC21J		BC27P		BH96E		BR55D		CB68D		CL03G		CT67D	
5			2/17/99		2/17/99		5/18/99		9/22/99		9/22/99		12/9/99		12/9/99		2/17/00		5/22/00		8/30/00		11/9/00		2/15/01	
87	**FIELD PARAMETERS**																									
88	pH (avg)		6.86		6.85		5.88		5.99		6.60		6.68		6.65		6.72		6.66		6.02		5.96		6.49	
89	Temperature (° C) (avg)		13.3		13.2		14.7		18.8		16.3		12.8		12.9		16.4		16.5		14.4		13.3		13.8	
90	Conductivity (um/hos)		500		500		462		491		359		436		424		548		437		526		656		673	
91	Dissolved oxygen (mg/L) (avg)		2.39		2.57		2.40		1.35		1.42		1.76		1.86		0.12		1.00		1.39		0.31		0.19	
92																										
93	**DIOXINS AND FURANS (ng/L)**																									
94	**Method 8290**																									
95	2,3,7,8-TCDF		0.0017	U	NA		0.0011	U	0.0018	U	NA		0.00068	U	NA		0.0034	U	NA		NA		NA		NA	
96	Total TCDF		0.0017	U	NA		0.0011	U	0.0018	U	NA		0.00068	U	NA		0.0034	U	NA		NA		NA		NA	
97	2,3,7,8-TCDD		0.0043	U	NA		0.0016	U	0.0031	U	NA		0.00130	U	NA		0.0058	U	NA		NA		NA		NA	
98	Total TCDD		0.0043	U	NA		0.0016	U	0.0031	U	NA		0.00130	U	NA		0.0058	U	NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF		0.0028	U	NA		0.0021	U	0.0031	U	NA		0.00120	U	NA		0.0025	U	NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF		0.0036	U	NA		0.0027	U	0.0032	U	NA		0.00088	U	NA		0.0033	U	NA		NA		NA		NA	
101	Total PeCDF		0.0032	U	NA		0.0024	U	0.0032	U	NA		0.00110	U	NA		0.0029	U	NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD		0.0046	U	NA		0.0023	U	0.0048	U	NA		0.00094	U	NA		0.0051	U	NA		NA		NA		NA	
103	Total PeCDD		0.0046	U	NA		0.0023	U	0.0048	U	NA		0.00094	U	NA		0.0051	U	NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF		**0.0013**		NA		0.0035	U	0.0024	U	NA		0.00150	U	NA		0.0031	U	NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF		0.0024	U	NA		**0.0014**		0.0019	U	NA		0.00150	U	NA		0.0029	U	NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF		0.0036	U	NA		**0.0032**		**0.0024**		NA		0.0025	U	NA		0.0034	U	NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF		0.0044	U	NA		0.0039	U	0.0021	U	NA		0.00170	U	NA		0.0036	U	NA		NA		NA		NA	
108	Total HxCDF		**0.0013**		NA		**0.0046**		**0.0024**		NA		0.0025	U	NA		0.0033	U	NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD		0.0054	U	NA		0.0051	U	0.0039	U	NA		0.00150	U	NA		0.0050	U	NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD		0.0037	U	NA		0.0052	U	0.0035	U	NA		0.00170	U	NA		0.0037	U	NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD		0.0036	U	NA		0.0039	U	0.0025	U	NA		0.00150	U	NA		0.0034	U	NA		NA		NA		NA	
112	Total HxCDD		0.0042	U	NA		0.0047	U	0.0033	U	NA		0.00160	U	NA		0.0040	U	NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		0.0026	U	NA		0.0039	U	0.0022	U	NA		0.0015	U	NA		0.0024	U	NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		0.0045	U	NA		**0.0036**	U	0.0060	U	NA		0.00200	U	NA		0.0065	U	NA		NA		NA		NA	
115	Total HpCDF		0.0036	U	NA		**0.0051**		0.0041	U	NA		**0.0036**	J1	NA		0.0044	U	NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		**0.0055**		NA		**0.0110**		**0.0044**		NA		**0.0090**	J1	NA		0.0059	U	NA		NA		NA		NA	
117	Total HpCDD		**0.0055**		NA		**0.0160**		**0.0044**		NA		**0.0160**	J1	NA		0.0040	U	NA		NA		NA		NA	
118	OCDF		**0.0100**		NA		**0.0100**		0.0042	U	NA		**0.0058**	J1	NA		0.0048	U	NA		NA		NA		NA	
119	OCDD		0.0420	U	NA		**0.0770**		**0.0440**		NA		0.0660	U	NA		**0.044**	J1	NA		NA		NA		NA	
120																										
121																										
122																										

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV
1																									
2																									
3		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D	
4		DE87K		DM30D		DW29G		ED30H		EN00H		ER93L		EZ17F		FF65G		FL58E		FU45N		FY82L		0402113-08	
5		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/13/02		2/11/03		5/8/03		8/28/03		10/24/03		2/23/04	
87	**FIELD PARAMETERS**																								
88	pH (avg)	6.91		6.94		6.61		6.48		6.65		7.04		6.31		7		6.97		7		6.79		6.49	
89	Temperature (° C) (avg)	14.7		15.4		13.3		14.2		14.4		15.8		14		14.1		14.1		17.3		14.6		14.4	
90	Conductivity (um/hos)	778		757		592		705		624		613		564		704		599		526		523		482	
91	Dissolved oxygen (mg/L) (avg)	0.48		0.98		4.41		7.10		4.00		1.24		0.37		0.76		1.68		1.66		2.57		1.36	
92																									
93	**DIOXINS AND FURANS (ng/L)**																								
94	**Method 8290**																								
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																									
121																									
122																									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1																									
2							Dup of LW4D										Dup of LW4D				Dup of LW4D				Dup of LW4D
3			LW4D		LW4D		LW40D		LW4D		LW4D		LW4D (a)		LW4D		LW40D		LW4D		LW40D		LW4D		LW40D
4			S167I		T176M		T176L		U235N		V232F		B802035-02		W391E		W391I		Y314E		Y314B		Z225J		Z225L
5			4/1/97		7/16/97		7/16/97		10/22/97		1/30/98		1/30/98		5/20/98		5/20/98		8/17/98		8/17/98		11/14/98		11/14/98
123		**PAHs (µg/L)**																							
124		**EPA Method SW8270 SIM**																							
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX
1																										
2					Dup of LW4D						Dup of LW4D				Dup of LW4D											
3			LW4D		LW40D		LW4D		LW4D		LW40D		LW4D		LW40D		LW4D		LW4D		LW4D		LW4D		LW4D	
4			Z960P		Z960K		AH49H		AU45G		AU45I		BC21J		BC27P		BH96E		BR55D		CB68D		CL03G		CT67D	
5			2/17/99		2/17/99		5/18/99		9/22/99		9/22/99		12/9/99		12/9/99		2/17/00		5/22/00		8/30/00		11/9/00		2/15/01	
123	**PAHs (µg/L)**																									
124	**EPA Method SW8270 SIM**																									
125	Naphthalene		**22**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene		**60**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene		0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene		**0.44**	M	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene		0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene		0.10	U	NA		NA		NA		NA				NA		NA		NA		NA		NA		NA	
131	Dibenzofuran		**0.34**	M	NA		NA		NA		NA				NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV
1																									
2																									
3		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D		LW4D	
4		DE87K		DM30D		DW29G		ED30H		EN00H		ER93L		EZ17F		FF65G		FL58E		FU45N		FY82L		0402113-08	
5		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/13/02		2/11/03		5/8/03		8/28/03		10/24/03		2/23/04	
6																									
123	**PAHs (µg/L)**																								
124	**EPA Method SW8270 SIM**																								
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW4DR									
4			0411151-01									
5			11/29/04									
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	4.97	U								
10	4	2,4,6-Trichlorophenol	NA									
11	5	2,3,6-Trichlorophenol	NA									
12	6	2,4,5-Trichlorophenol	NA									
13	7	2,3,4-Trichlorophenol	NA									
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA									
15	9	2,3,4,5-Tetrachlorophenol	NA									
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	1.99	U								
20	14	4-Methylphenol	9.94	U								
21	15	Isophorone	0.994	U								
22	16	2,4-Dimethylphenol	2.98	U								
23	17	Benzoic Acid	19.9	U								
24	18	Naphthalene	0.994	U								
25	19	2-Methylnaphthalene	0.994	U								
26	20	2,4,6-Trichlorophenol	4.97	U								
27	21	2,4,5-Trichlorophenol	4.97	U								
28	22	Acenaphthene	0.994	U								
29	23	Dibenzofuran	0.994	U								
30	24	Fluorene	0.994	U								
31	25	Pentachlorophenol	**1.08**									
32	26	bis(2-Ethylhexyl)phthalate	**2.83**									
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	50	U								
37	31	Carbon Disulfide	2	U								
38	32	2-Butanone	10	U								
39	33	Benzene	**0.32**									
40	34	Bromoform	1	U								
41	35	Toluene	1	U								
42	36	Ethylbenzene	1	U								
43	37	Styrene	1	U								
44	38	m,p-Xylene	2	U								
45	39	o-Xylene	1	U								
46	40	1,3,5-Trimethylbenzene	1	U								
47	41	1,2,4-Trimethylbenzene	**1.9**									
48	42	Isopropylbenzene	**1.51**									
49	43	n-Propylbenzene	1	U								
50	44	tert-Butylbenzene	1	U								
51	45	sec-Butylbenzene	1	U								
52	46	4-Isopropyltoluene	1	U								
53	47	n-Butylbenzene	1	U								
54	48	Naphthalene	**4.29**									
55		Methyl tert-butyl ether	1	U								
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**0.353**									
60	53	**TPH-D Motor Oil**	**0.529**									
61	54	**TPH-Gasoline**	NA									
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW4DR									
4			0411151-01									
5			11/29/04									
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.0101**									
66	59	Chromium (6010)	**0.0076**									
67	60	Copper (6010)	0.01	U								
68	61	Lead (7421)	**0.00202**									
69	62	Nickel (6010)	**0.008**									
70	63	Zinc (6010)	**0.19**									
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA									
74	67	Magnesium (mg/L) (6010)	NA									
75	68	Potassium (mg/L) (6010)	NA									
76	69	Sodium (mg/L) (6010)	NA									
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA									
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA									
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA									
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**262**									
81	74	Chloride (mg/L) (EPA 325.2)	**4.93**									
82	75	N-Nitrate (mg-N/L) (Calculated)	NA									
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA									
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA									
85	78	Sulfate (mg/L) (EPA 375.2)	NA									
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW4DR									
4			0411151-01									
5			11/29/04									
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	5.95									
89	82	Temperature (° C) (avg)	12.3									
90	83	Conductivity (um/hos)	436									
91	84	Dissolved oxygen (mg/L) (avg)	999									
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA									
96	89	Total TCDF	NA									
97	90	2,3,7,8-TCDD	NA									
98	91	Total TCDD	NA									
99	92	1,2,3,7,8-PeCDF	NA									
100	93	2,3,4,7,8-PeCDF	NA									
101	94	Total PeCDF	NA									
102	95	1,2,3,7,8-PeCDD	NA									
103	96	Total PeCDD	NA									
104	97	1,2,3,4,7,8-HxCDF	NA									
105	98	1,2,3,6,7,8-HxCDF	NA									
106	99	2,3,4,6,7,8-HxCDF	NA									
107	100	1,2,3,7,8,9-HxCDF	NA									
108	101	Total HxCDF	NA									
109	102	1,2,3,4,7,8-HxCDD	NA									
110	103	1,2,3,6,7,8-HxCDD	NA									
111	104	1,2,3,7,8,9-HxCDD	NA									
112	105	Total HxCDD	NA									
113	106	1,2,3,4,6,7,8-HpCDF	NA									
114	107	1,2,3,4,7,8,9-HpCDF	NA									
115	108	Total HpCDF	NA									
116	109	1,2,3,4,6,7,8-HpCDD	NA									
117	110	Total HpCDD	NA									
118	111	OCDF	NA									
119	112	OCDD	NA									
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW4DR									
4			0411151-01									
5			11/29/04									
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	NA									
126		2-Methylnaphthalene	NA									
127		Acenaphthylene	NA									
128		Acenaphthene	NA									
129		Fluorene	NA									
130		Anthracene	NA									
131		Dibenzofuran	NA									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D	
4			S167G		T176I		U235R		V208I		W391D		Y314C		Z225B		Z960G		AH27I		AU45D		BC27F		BH96I		BR64J	
5			3/31/97		7/15/97		10/22/97		1/28/98		5/20/98		8/17/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99		2/17/00		5/24/00	
6																												
7	1	**CHLORINATED PHENOLS (µg/L)**																										
8	2	**EPA Method SW8040**																										
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.42**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
16	10																											
17	11	**SEMIVOLATILES (µg/L)**																										
18	12	**EPA Method SW8270**																										
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.0**	
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	UJ	**1.1**	J2	**1.3**		**1.2**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**4.6**		1.0	U
33	27																											
34	28	**VOLATILES (µg/L)**																										
35	29	**EPA Method SW8260**																										
36	30	Acetone	5.0	U	5.0	U	**5.1**		5.0	U	**7.1**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	**2.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
48	42	Isopropylbenzene	**41**		**61**		**78**	J2	**76**		**56**		**96**		**93**		**32**		**31**		**52**		**43**		**68**		**24**	
49	43	n-Propylbenzene	**14**		**28**		**40**		**36**		**20**		**44**		**32**		**8.9**		**9.3**		**14**		**7.7**		**10**		**4.4**	
50	44	tert-Butylbenzene	**2.4**		**2.7**	J2	**2.8**		**2.3**		**2.8**		**3.8**		**3.2**		**2.0**		**2.4**		**3.5**		**3.0**		**4.1**		**2.3**	
51	45	sec-Butylbenzene	**5.7**		**8.3**		**8.5**	J2	**7.1**		**7.8**		**14**	J2	**9.7**		**3.6**		**5.4**		**10**		**8.2**		**12**		**4.4**	
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
53	47	n-Butylbenzene	**1.6**		**2.8**		**2.8**	J2	**2.9**		2.7	U	**5.0**		**3.2**		**1.2**		**2.1**		3.0	U	2.3	U	**3.6**		**1.7**	M
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	51	**Method OR-DEQ**																										
59	52	**TPH-Diesel**	**1.0**		**1.0**		**1.2**		**0.80**		**0.86**		**1.3**		**1.0**		**0.62**		**0.92**		**1.4**		**1.0**		**1.0**		**1.1**	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
3		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D	
4		CB85E		CL03C		CT55B		DE87G		DM30B		DW29H		ED23H		EM85I		ER93C		EZ03E		FF76F		FL66E		FU45R		FY82O	
5		8/30/00		11/8/00		2/13/01		6/5/01		8/13/01		11/27/01		2/26/02		6/26/02		08/26/02		11/12/02		2/12/03		5/9/03		8/28/03		10/24/03	
7	**CHLORINATED PHENOLS (µg/L)**																												
8	**EPA Method SW8040**																												
9	Pentachlorophenol	0.25	U	0.25	U	**0.46**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.3	U	0.25	U	0.25	U	**0.47**		**0.6**	J	**1.1**	
10	2,4,6-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
17	**SEMIVOLATILES (µg/L)**																												
18	**EPA Method SW8270**																												
19	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.4	U	2.2	U	2	U	2	U	2.1	U	2	U
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1	U	1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.6	U	3.3	U	3	U	3	U	3.1	U	3.1	U
23	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	30	U	50	U	50	U	60	U	54	U	50	U	50	U	52	U	10	U
24	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1	U	1	U
25	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1	U	1	U
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	6	U	5.4	U	5	U	5	U	5.2	U	5.1	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	6	U	5.4	U	5	U	5	U	5.2	U	5.1	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1	U	1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1	U	1	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1	U	1	U	1	U	1	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	6	U	5.4	U	5	U	5	U	5.2	U	5.1	U
32	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	4.0	U	4.8	U	4.3	U	**13**		1	U	1	U	1	U
34	**VOLATILES (µg/L)**																												
35	**EPA Method SW8260**																												
36	Acetone	5.0	U	5.0	U		R	5.0	U	5.0	U	5.0	U	5.0	U	**6.8**		5	U	**16**		5	U	**9.6**		**6.2**	J	5	U
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
38	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U
39	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
45	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
48	Isopropylbenzene	**16**		**24**		**14**		**10**		**8.8**		**2.6**		**7.0**		**2.6**		**7.5**		**3.4**		**4**		**2.7**		**3.5**		**4.2**	
49	n-Propylbenzene	1.0	U	**2.8**		**1.4**		**1.1**		**1.4**		1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
50	tert-Butylbenzene	**3.5**		**2.8**		**2.8**		**3.4**		**2.8**		**3.1**		**3.1**		**1.8**		**3.4**		**3.2**		**3.1**		**2**		**2.3**		**2.9**	
51	sec-Butylbenzene	**6.0**		**6.4**		**5.3**		**4.7**		**4.3**		**2.4**		**3.4**		**1.7**		**3.3**		**2.2**		**2.5**		**1.8**		**2.1**		**2.1**	
52	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	1.2	U	1.0	U	**1.3**	M	1.3	U	1.4	U	1.0	U	**1.2**	M	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
54	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
58	**Method OR-DEQ**																												
59	**TPH-Diesel**	**1.2**		**1.2**		**1.8**		**1.4**		**1.7**		**1.8**		**1.9**		**1.6**		**2.6**		**2.2**		**2.3**		**2.2**		**1.9**		**1.1**	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.5	U
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL
1									
2									
3		LW6D		LW6D		LW6D		LW6D	
4		0402105-05		0406039-01		0408044-07		0411051-07	
5		2/20/04		6/7/04		8/06/04		11/9/04	
6									
7	**CHLORINATED PHENOLS (µg/L)**								
8	**EPA Method SW8040**								
9	Pentachlorophenol	0.483	U	0.498	U	0.5	U	5.21	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA	
16									
17	**SEMIVOLATILES (µg/L)**								
18	**EPA Method SW8270**								
19	Phenol	1.92	U	2	U	2	U	2.08	U
20	4-Methylphenol	9.61	U	9.98	U	10	U	10.4	U
21	Isophorone	0.961	U	0.998	U	1	U	1.04	U
22	2,4-Dimethylphenol	2.88	U	2.99	U	3	U	3.12	U
23	Benzoic Acid	19.2	U	20	U	20	U	20.8	U
24	Naphthalene	0.961	U	0.998	U	1	U	1.04	U
25	2-Methylnaphthalene	0.961	U	0.998	U	1	U	1.04	U
26	2,4,6-Trichlorophenol	4.8	U	4.99	U	5	U	5.21	U
27	2,4,5-Trichlorophenol	4.8	U	4.99	U	5	U	5.21	U
28	Acenaphthene	0.961	U	0.998	U	1	U	1.04	U
29	Dibenzofuran	0.961	U	0.998	U	1	U	1.04	U
30	Fluorene	0.961	U	0.998	U	1	U	1.04	U
31	Pentachlorophenol	4.8	U	4.99	U	5	U	0.495	U
32	bis(2-Ethylhexyl)phthalate	0.961	U	0.998	U	1	U	1.04	U
33									
34	**VOLATILES (µg/L)**								
35	**EPA Method SW8260**								
36	Acetone	50	U	50	U	50	U	50	U
37	Carbon Disulfide	2	U	2	U	2	U	2	U
38	2-Butanone	10	U	10	U	10	U	10	U
39	Benzene	0.4	U	0.3	U	0.3	U	0.3	U
40	Bromoform	1	U	1	U	1	U	1	U
41	Toluene	1	U	1	U	1	U	1	U
42	Ethylbenzene	1	U	1	U	1	U	1	U
43	Styrene	1	U	1	U	1	U	1	U
44	m,p-Xylene	2	U	2	U	2	U	2	U
45	o-Xylene	1	U	1	U	1	U	**1.38**	
46	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U
48	Isopropylbenzene	**3.43**		**2.05**		**2.11**		**2.39**	
49	n-Propylbenzene	1	U	1	U	1	U	1	U
50	tert-Butylbenzene	1	U	**1.76**		**2.09**		**3.23**	
51	sec-Butylbenzene	**1.27**		1	U	**1.29**		**1.09**	
52	4-Isopropyltoluene	1	U	1	U	1	U	1	U
53	n-Butylbenzene	1	U	1	U	1	U	1	U
54	Naphthalene	1	U	1	U	1	U	1	U
55	Methyl tert-butyl ether	1	U	1	U	1	U	1	U
56									
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**								
58	**Method OR-DEQ**								
59	**TPH-Diesel**	**1.36**	J	**1.9**		**2.05**		**1.9**	
60	**TPH-D Motor Oil**	0.491	UJ	0.51	U	0.474	U	0.509	U
61	**TPH-Gasoline**	NA		NA		NA		NA	
62									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D	
4			S167G		T176I		U235R		V208I		W391D		Y314C		Z225B		Z960G		AH27I		AU45D		BC27F		BH96I		BR64J	
5			3/31/97		7/15/97		10/22/97		1/28/98		5/20/98		8/17/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99		2/17/00		5/24/00	
63	56	**PRIORITY POLLUTANT**																										
64	57	**METALS (mg/L)**																										
65	58	Arsenic (7060)	**0.013**		**0.015**		0.05	U	0.05	U	**0.017**		**0.011**		**0.016**		**0.014**		**0.018**		**0.016**		**0.016**		**0.016**		**0.012**	
66	59	Chromium (6010)	0.005	U	0.005	U	**0.011**		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	60	Copper (6010)	**0.004**		**0.003**		**0.014**		**0.002**		**0.003**		0.002	U	0.002	U	0.002	U	0.002	U	**0.002**		0.002	U	0.002	U	0.002	U
68	61	Lead (7421)	**0.001**		**0.002**		0.02	U	0.02	U	**0.001**		0.001	U	**0.002**		0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	**0.001**	
69	62	Nickel (6010)	0.01	U	0.01	U	**0.01**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	**0.006**		**0.009**	J2	**0.045**		**0.011**		**0.017**	J2	**0.006**		**0.009**		**0.008**	J	0.007	U	**0.009**		**0.011**	U	**0.010**		0.006	U
71	64																											
72	65	**MAJOR IONS AND CONVENTIONALS**																										
73	66	Calcium (mg/L) (6010)	**47.2**		**44.2**		**49.1**		**41.8**		NA		NA		NA		**42.9**		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**19.9**		**19**		**20.3**		**16.3**		NA		NA		NA		**17.6**		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**3.0**		**2.7**		**3.5**		**2.4**		NA		NA		NA		**2.3**		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**15.6**		**13.9**		**14.1**		**12.1**		NA		NA		NA		**11.6**		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**250**		**190**		**210**		**200**		NA		NA		NA		**210**		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**250**		**190**		**210**		**200**		NA		NA		NA		**210**		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**260**	J2	**260**		**230**		**220**		**240**		**240**		**260**		**240**		**240**		**250**		**240**		**230**	
81	74	Chloride (mg/L) (EPA 325.2)	**8.4**	J	**4.1**		**3.9**		**2.7**		**3.3**		**2.0**		**2.6**		**4.2**		1.0	U	**3.1**		**4.3**		**2.8**		**2.1**	
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.016**	J	0.010	U	**0.013**		0.010	U	NA		NA		NA		0.010	U	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	**0.025**	J	**0.014**		**0.010**		**0.014**		NA		NA		NA		**0.018**		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.041**	J	0.010	U	**0.023**		**0.016**		NA		NA		NA		**0.017**		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	**4.7**	J	2.5	U	2.5	U	2.5	U	NA		NA		NA		**5.5**		NA		NA		NA		NA		NA	
86	79																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
3		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D	
4		CB85E		CL03C		CT55B		DE87G		DM30B		DW29H		ED23H		EM85I		ER93C		EZ03E		FF76F		FL66E		FU45R		FY82O	
5		8/30/00		11/8/00		2/13/01		6/5/01		8/13/01		11/27/01		2/26/02		6/26/02		08/26/02		11/12/02		2/12/03		5/9/03		8/28/03		10/24/03	
63	**PRIORITY POLLUTANT**																												
64	**METALS (mg/L)**																												
65	Arsenic (7060)	**0.018**		**0.015**		**0.015**		**0.017**		**0.020**		**0.021**		**0.016**		**0.016**		**0.02**		0.05	U	**0.011**		**0.017**		**0.014**		**0.016**	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.008**	
67	Copper (6010)	**0.002**		**0.006**		0.002	U	**0.003**		**0.003**		0.002	U	0.002	U	0.002	U	**0.002**		0.002	U	**0.005**		0.002	U	**0.004**		**0.005**	
68	Lead (7421)	**0.002**		**0.002**		**0.001**		**0.002**		**0.002**		0.001	U	0.001	U	0.001	U	0.001	U	0.02	U	0.001	U	**0.001**		0.001	U	**0.003**	
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	Zinc (6010)	**0.007**		**0.008**		**0.007**		**0.008**		**0.009**		0.006	U	**0.008**		0.006	U	**0.007**		0.006	U	**0.01**		**0.007**		**0.007**		**0.013**	
71																													
72	**MAJOR IONS AND CONVENTIONALS**																												
73	Calcium (mg/L) (6010)	NA		NA		**40.8**		**44.2**		**40.8**		**40.9**		**42.5**		NA		NA		NA		**39.5**		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		**16.1**		**18.4**		**16.8**		**16.5**		**17.6**		NA		NA		NA		**16.7**		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		**2.1**		**3.2**		**2.6**		**2.0**		**2.7**		NA		NA		NA		**1.9**		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		**10.3**		**11.5**		**10.4**		**10.3**		**11.1**		NA		NA		NA		**9.6**		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		**200**		NA		NA		NA		**220**		NA		NA		NA		**300**		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA		NA		1	U	NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		**200**		NA		NA		NA		**220**		NA		NA		NA		**300**		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**240**		**220**		**290**	J	**240**	J	**220**	J	**250**		**260**		**240**		**270**		**310**		**280**		**260**		**290**		**250**	
81	Chloride (mg/L) (EPA 325.2)	**1.4**		**2.2**		**1.8**		**2.2**		**3.8**		**2.1**		**2.8**		**2.5**		**2.2**		**2.8**		**4.2**		**1.8**		**1.6**		**2.9**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		0.010	U	NA		NA		NA		**0.010**		NA		NA		NA		**0.048**		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		0.010	U	NA		NA		NA		**0.023**		NA		NA		NA		**0.015**		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		0.010	U	NA		NA		NA		**0.033**	J	NA		NA		NA		**0.063**		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		**3.3**		NA		NA		NA		2.5	U	NA		NA		NA		2.5	U	NA		NA		NA	
86																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL
1									
2									
3		LW6D		LW6D		LW6D		LW6D	
4		0402105-05		0406039-01		0408044-07		0411051-07	
5		2/20/04		6/7/04		8/06/04		11/9/04	
63	**PRIORITY POLLUTANT**								
64	**METALS (mg/L)**								
65	Arsenic (7060)	**0.015**		**0.013**		**0.0153**		**0.014**	
66	Chromium (6010)	**0.0101**		**0.0208**		**0.0187**		**0.0182**	
67	Copper (6010)	0.01	U	0.01	U	0.01	U	0.01	U
68	Lead (7421)	**0.0009**		**0.0002**		**0.000252**		**0.00042**	
69	Nickel (6010)	0.005	U	0.005	U	0.005	U	0.005	U
70	Zinc (6010)	0.01	U	0.01	U	0.01	U	0.01	U
71									
72	**MAJOR IONS AND CONVENTIONALS**								
73	Calcium (mg/L) (6010)	NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**269**		**325**		**259**		**283**	
81	Chloride (mg/L) (EPA 325.2)	**3.04**		**2.91**		**2.57**		**2.86**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA	
86									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D	
4			S167G		T176I		U235R		V208I		W391D		Y314C		Z225B		Z960G		AH27I		AU45D		BC27F		BH96I		BR64J	
5			3/31/97		7/15/97		10/22/97		1/28/98		5/20/98		8/17/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99		2/17/00		5/24/00	
87	80	**FIELD PARAMETERS**																										
88	81	pH (avg)	6.53		6.63		6.84		6.65		6.35		6.34		6.17		6.78		5.66		6.64		6.38		6.57		6.42	
89	82	Temperature (° C) (avg)	12.2		15.7		13.2		13.5		13.0		17.9		13.1		13.7		14.6		15.5		12.8		13.5		17.1	
90	83	Conductivity (um/hos)	504		501		377		431		369		559		134		448		360		398		409		420		421	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		1.85		NA		1.58		2.77		1.60		1.96		1.86		0.82		0.48	
92	85																											
93	86	**DIOXINS AND FURANS (ng/L)**																										
94	87	**Method 8290**																										
95	88	2,3,7,8-TCDF	NA		0.0027	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		0.0011-0.0028	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		0.0013	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		0.0011-0.0029	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		0.0035	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		0.0029	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		0.0013-0.0045	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		0.0052	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		0.0019-0.0061	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		0.0030	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		0.0032	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		0.0041	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		0.0047	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		0.0041	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		0.0051	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		0.0076	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		0.0041	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		0.0024-0.0089	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		0.0047	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		0.0054	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		0.0017-0.0069	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		**0.0250**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		**0.0360**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		**0.0350**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		**0.2400**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121																												
122																												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
3		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D	
4		CB85E		CL03C		CT55B		DE87G		DM30B		DW29H		ED23H		EM85I		ER93C		EZ03E		FF76F		FL66E		FU45R		FY82O	
5		8/30/00		11/8/00		2/13/01		6/5/01		8/13/01		11/27/01		2/26/02		6/26/02		08/26/02		11/12/02		2/12/03		5/9/03		8/28/03		10/24/03	
87	**FIELD PARAMETERS**																												
88	pH (avg)	5.85		5.73		6.32		6.58		6.72		6.58		6.54		6.41		6.58		6.73		6.96		6.81		6.87		6.57	
89	Temperature (° C) (avg)	15.1		13.8		16.6		14.1		15.7		13.4		15.7		16.6		17.3		13.7		14.5		14.5		16.3		14.7	
90	Conductivity (um/hos)	398		360		408		428		413		410		381		331		373		499		494		354		364		375	
91	Dissolved oxygen (mg/L) (avg)	1.36		1.20		2.16		2.06		1.50		3.91		7.27		3.07		1.39		1.14		1.68		2.47		2.1		2.86	
92																													
93	**DIOXINS AND FURANS (ng/L)**																												
94	**Method 8290**																												
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																													
121																													
122																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL
1									
2									
3		LW6D		LW6D		LW6D		LW6D	
4		0402105-05		0406039-01		0408044-07		0411051-07	
5		2/20/04		6/7/04		8/06/04		11/9/04	
87	**FIELD PARAMETERS**								
88	pH (avg)	6.55		5.37		6.26		6.57	
89	Temperature (° C) (avg)	15.5		15.3		15.2		14.2	
90	Conductivity (um/hos)	378		311		597		403	
91	Dissolved oxygen (mg/L) (avg)	2.34		1.62		4.43		1.92	
92									
93	**DIOXINS AND FURANS (ng/L)**								
94	**Method 8290**								
95	2,3,7,8-TCDF	NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA	
120									
121									
122									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D	
4			S167G		T176I		U235R		V208I		W391D		Y314C		Z225B		Z960G		AH27I		AU45D		BC27F		BH96I		BR64J	
5			3/31/97		7/15/97		10/22/97		1/28/98		5/20/98		8/17/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99		2/17/00		5/24/00	
6																												
123		**PAHs (µg/L)**																										
124		**EPA Method SW8270 SIM**																										
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																													
2																													
3		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D		LW6D	
4		CB85E		CL03C		CT55B		DE87G		DM30B		DW29H		ED23H		EM85I		ER93C		EZ03E		FF76F		FL66E		FU45R		FY82O	
5		8/30/00		11/8/00		2/13/01		6/5/01		8/13/01		11/27/01		2/26/02		6/26/02		08/26/02		11/12/02		2/12/03		5/9/03		8/28/03		10/24/03	
123	**PAHs (µg/L)**																												
124	**EPA Method SW8270 SIM**																												
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BE	BF	BG	BH	BI	BJ	BK	BL
1									
2									
3		LW6D		LW6D		LW6D		LW6D	
4		0402105-05		0406039-01		0408044-07		0411051-07	
5		2/20/04		6/7/04		8/06/04		11/9/04	
123	**PAHs (µg/L)**								
124	**EPA Method SW8270 SIM**								
125	Naphthalene	NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		1	U	NA	
128	Acenaphthene	NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA	
130	Anthracene	NA		NA		1	U	NA	
131	Dibenzofuran	NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D	
4			AH76Q		AU45E		BC27G		BH96Q		BR64M		CB85F		CL03D		CT67B		DE87H		DM30F		DW29B		ED34J		EM85H		ER93M	
5			5/19/99		9/22/99		12/7/99		2/16/00		5/25/00		8/30/00		11/8/00		2/14/01		6/5/01		8/14/01		11/27/01		2/28/02		6/26/02		08/27/02	
6																														
7	1	**CHLORINATED PHENOLS (µg/L)**																												
8	2	**EPA Method SW8040**																												
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.28	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
16	10																													
17	11	**SEMIVOLATILES (µg/L)**																												
18	12	**EPA Method SW8270**																												
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.2	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.3	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	30	U	50	U	50	U	56	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	**17**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U
32	26	bis(2-Ethylhexyl)phthalate	1.2	U	**2.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.1**		1.0	U	1.0	U	**3.1**		4.0	U	4.0	U	4.4	U
33	27																													
34	28	**VOLATILES (µg/L)**																												
35	29	**EPA Method SW8260**																												
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**6.1**		5.0	U	**6.7**		**37**		**14**		5	U
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
48	42	Isopropylbenzene	**10**		**5.5**		**8.5**		**1.1**		**3.0**		**3.0**		1.0	U	**2.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
49	43	n-Propylbenzene	**8.4**		**8.7**		**3.8**		1.0	U	**1.2**		**2.7**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
51	45	sec-Butylbenzene	1.0	U	**2.3**		**1.4**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
53	47	n-Butylbenzene	1.0	U	**1.6**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																													
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
58	51	**Method OR-DEQ**																												
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.25**		0.25	U	**0.35**		0.25	U	**0.26**		0.25	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.50	U	NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.25	U	NA		NA		NA	
62	55																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
3		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D	
4		EZ03F		FF76K		FL66H		FU45P		FY82M		0402105-08		0406039-02		0408044-05		0411051-02	
5		11/12/02		2/12/03		5/9/03		8/28/03		10/24/03		2/20/04		6/7/04		8/06/04		11/9/04	
7	**CHLORINATED PHENOLS (µg/L)**																		
8	**EPA Method SW8040**																		
9	Pentachlorophenol	0.25	U	0.26	U	0.25	U	**0.55**	J	0.51	U	0.495	U	0.494	U	0.5	U	5.01	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																			
17	**SEMIVOLATILES (µg/L)**																		
18	**EPA Method SW8270**																		
19	Phenol	2.3	U	2.1	U	2	U	2.1	U	2	U	1.92	U	2.27	U	2	U	2	U
20	4-Methylphenol	1.1	U	1	U	1	U	1	U	1	U	9.58	U	11.4	U	10	U	10	U
21	Isophorone	1.1	U	1	U	1	U	1	U	1	U	0.958	U	1.14	U	1	U	1	U
22	2,4-Dimethylphenol	3.4	U	3.1	U	3	U	3.1	U	3.1	U	2.87	U	3.41	U	3	U	3.01	U
23	Benzoic Acid	57	U	52	U	50	U	52	U	10	U	19.2	U	22.7	U	20	U	20	U
24	Naphthalene	1.1	U	1	U	1	U	1	U	1	U	0.958	U	1.14	U	1	U	1	U
25	2-Methylnaphthalene	1.1	U	1	U	1	U	1	U	1	U	0.958	U	1.14	U	1	U	1	U
26	2,4,6-Trichlorophenol	5.7	U	5.2	U	5	U	5.2	U	5.1	U	4.79	U	5.68	U	5	U	5.01	U
27	2,4,5-Trichlorophenol	5.7	U	5.2	U	5	U	5.2	U	5.1	U	4.79	U	5.68	U	5	U	5.01	U
28	Acenaphthene	1.1	U	1	U	1	U	1	U	1	U	0.958	U	1.14	U	1	U	1	U
29	Dibenzofuran	1.1	U	1	U	1	U	1	U	1	U	0.958	U	1.14	U	1	U	1	U
30	Fluorene	1.1	U	1	U	1	U	1	U	1	U	0.958	U	1.14	U	1	U	1	U
31	Pentachlorophenol	5.7	U	5.2	U	5	U	5.2	U	5.1	U	4.79	U	5.68	U	5	U	0.504	U
32	bis(2-Ethylhexyl)phthalate	4.6	U	1	U	1	U	1	U	1	U	0.958	U	1.14	U	1	U	1	U
33																			
34	**VOLATILES (µg/L)**																		
35	**EPA Method SW8260**																		
36	Acetone	5	U	5	U	5	U	5	U	5	U	50	U	50	U	50	U	50	U
37	Carbon Disulfide	1	U	1	U	1	U	1	U	1	U	2	U	2	U	2	U	2	U
38	2-Butanone	5	U	5	U	5	U	5	U	5	U	10	U	10	U	10	U	10	U
39	Benzene	1	U	1	U	1	U	1	U	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
43	Styrene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	1	U	1	U	1	U	1	U	1	U	2	U	2	U	2	U	2	U
45	o-Xylene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
48	Isopropylbenzene	1	U	**3.3**		1	U	**14**		**12**		**4.36**		1	U	**17.6**		**1.74**	
49	n-Propylbenzene	1	U	1		1	U	**7.8**		**5.4**		**1.16**		1	U	**8.72**		1	U
50	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	**1.03**	
51	sec-Butylbenzene	1	U	1	U	1	U	**1.6**		**1.3**		1	U	1	U	**1.03**		1	U
52	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
54	Naphthalene	5	U	5	U	5	U	5	U	5	U	1	U	1	U	1	U	1	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		1	U	1	U	1	U	1	U
56																			
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																		
58	**Method OR-DEQ**																		
59	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	**0.34**		0.25	U	0.246	UJ	0.246	U	0.254	U	**0.289**	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		0.5	U	0.492	UJ	0.492	U	0.508	U	0.514	U
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																			

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D	
4			AH76Q		AU45E		BC27G		BH96Q		BR64M		CB85F		CL03D		CT67B		DE87H		DM30F		DW29B		ED34J		EM85H		ER93M	
5			5/19/99		9/22/99		12/7/99		2/16/00		5/25/00		8/30/00		11/8/00		2/14/01		6/5/01		8/14/01		11/27/01		2/28/02		6/26/02		08/27/02	
63	56	**PRIORITY POLLUTANT**																												
64	57	**METALS (mg/L)**																												
65	58	Arsenic (7060)	**0.025**		**0.030**		**0.022**		**0.028**		**0.028**		**0.032**		**0.030**		**0.037**		**0.033**		**0.044**		**0.042**		**0.030**		**0.033**		**0.033**	
66	59	Chromium (6010)	**0.025**		**0.020**		**0.009**		**0.014**		0.005	U	**0.013**		**0.010**		**0.012**		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	60	Copper (6010)	**0.027**		**0.019**		**0.011**		**0.016**		**0.004**		**0.013**		**0.015**		**0.014**		**0.009**		**0.002**		**0.005**		**0.004**		**0.002**		0.002	U
68	61	Lead (7421)	**0.006**		**0.006**		**0.004**		**0.003**		**0.002**		**0.005**		**0.003**		**0.006**		0.001	U	0.001	U	**0.003**		0.001	U	0.001	U	**0.002**	
69	62	Nickel (6010)	**0.02**		0.02	U	0.01	U	**0.02**		0.01	U	**0.01**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	**0.070**		**0.052**		**0.032**	U	**0.042**		**0.013**		**0.033**		**0.028**		**0.039**		**0.012**		0.006	U	**0.019**		**0.009**		**0.011**		**0.012**	
71	64																													
72	65	**MAJOR IONS AND CONVENTIONALS**																												
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**28.8**		**37.0**		**39.8**		**39.3**		**40.0**		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**11.0**	J	**13.2**		**13.8**		**13.7**		**13.8**		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**2.0**		**1.9**		**1.8**		**1.6**		**2.0**		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**5.18**		**5.47**		**5.76**		**6.14**		**7.23**		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		**150**		NA		NA		NA		**180**		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		**150**		NA		NA		NA		**180**		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**130**		**120**		**130**		**110**		**140**		**150**		**170**		**190**		**210**	J	**200**		**220**		**260**		**220**		**190**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.4**		**2.6**		**2.7**		**3.1**		**2.6**		**2.4**		**2.1**		**2.9**	J	**2.1**		**3.3**		**1.8**		**2.4**		**3.0**		**2.5**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		0.010	U	NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		**0.011**	J	NA		NA		NA		**0.018**		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		**0.018**		NA		NA		NA		**0.025**		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		**4.6**		NA		NA		NA		**5.3**		NA		NA	
86	79																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1																			
2																			
3		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D	
4		EZ03F		FF76K		FL66H		FU45P		FY82M		0402105-08		0406039-02		0408044-05		0411051-02	
5		11/12/02		2/12/03		5/9/03		8/28/03		10/24/03		2/20/04		6/7/04		8/06/04		11/9/04	
63	**PRIORITY POLLUTANT**																		
64	**METALS (mg/L)**																		
65	Arsenic (7060)	0.05	U	**0.021**		**0.03**		**0.03**		**0.038**		**0.030**		**0.027**		**0.0307**		**0.0458**	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	**0.012**		**0.0101**		**0.0173**		**0.0175**		**0.0182**	
67	Copper (6010)	0.002	U	**0.002**		0.002	U	**0.004**		**0.011**		0.01	U	0.01	U	0.01	U	0.01	U
68	Lead (7421)	0.02	U	0.001	U	0.001	U	0.001	U	**0.002**		**0.0007**		**0.0006**		**0.000788**		**0.00068**	
69	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U
70	Zinc (6010)	**0.008**		**0.008**		0.006	U	**0.008**		**0.027**		0.01	U	0.01	U	0.01	U	0.0124	U
71																			
72	**MAJOR IONS AND CONVENTIONALS**																		
73	Calcium (mg/L) (6010)	NA		**34.3**		NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		**11.8**		NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		**1.6**		NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		**5.3**		NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		**130**		NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		1	U	NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		**130**		NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**210**		**250**		**180**		**180**		**160**		**181**		**237**		**163**		**229**	
81	Chloride (mg/L) (EPA 325.2)	**2.2**		**1.9**		**2**		1	U	**1.2**		**1.47**		**1.39**		**1.33**		**1.27**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		**0.11**		NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		**0.019**		NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		**0.13**		NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		**16**		NA		NA		NA		NA		NA		NA		NA	
86																			

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D	
4			AH76Q		AU45E		BC27G		BH96Q		BR64M		CB85F		CL03D		CT67B		DE87H		DM30F		DW29B		ED34J		EM85H		ER93M	
5			5/19/99		9/22/99		12/7/99		2/16/00		5/25/00		8/30/00		11/8/00		2/14/01		6/5/01		8/14/01		11/27/01		2/28/02		6/26/02		08/27/02	
87	80	**FIELD PARAMETERS**																												
88	81	pH (avg)	6.35		6.71		6.62		6.90		6.69		6.05		5.91		6.35		6.81		6.97		6.72		6.52		6.41		6.89	
89	82	Temperature (° C) (avg)	14.5		14.9		13.1		13.7		14.8		14.7		13.4		14.3		14.3		14.6		13.0		14.1		16.9		15.6	
90	83	Conductivity (um/hos)	171		160		166		198		198		227		242		259		330		324		345		361		310		249	
91	84	Dissolved oxygen (mg/L) (avg)	3.18		1.73		1.57		1.39		0.48		1.67		1.06		0.75		1.67		1.80		1.32		7.46		3.30		0.99	
92	85																													
93	86	**DIOXINS AND FURANS (ng/L)**																												
94	87	**Method 8290**																												
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																														
121																														
122																														

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1																			
2																			
3		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D	
4		EZ03F		FF76K		FL66H		FU45P		FY82M		0402105-08		0406039-02		0408044-05		0411051-02	
5		11/12/02		2/12/03		5/9/03		8/28/03		10/24/03		2/20/04		6/7/04		8/06/04		11/9/04	
87	**FIELD PARAMETERS**																		
88	pH (avg)	6.91		7.02		6.83		6.95		6.69		6.64		5.41		6.22		6.76	
89	Temperature (° C) (avg)	14.3		14.7		15		16.4		14.9		16.3		15.6		15		14.6	
90	Conductivity (um/hos)	314		281		171		205		255		274		125		362		303	
91	Dissolved oxygen (mg/L) (avg)	1		2.04		4.56		1.03		2.91		1.42		5.05		3.75		1.9	
92																			
93	**DIOXINS AND FURANS (ng/L)**																		
94	**Method 8290**																		
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																			
121																			
122																			

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D	
4			AH76Q		AU45E		BC27G		BH96Q		BR64M		CB85F		CL03D		CT67B		DE87H		DM30F		DW29B		ED34J		EM85H		ER93M	
5			5/19/99		9/22/99		12/7/99		2/16/00		5/25/00		8/30/00		11/8/00		2/14/01		6/5/01		8/14/01		11/27/01		2/28/02		6/26/02		08/27/02	
6																														
123		**PAHs (µg/L)**																												
124		**EPA Method SW8270 SIM**																												
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1																			
2																			
3		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D		LW9D	
4		EZ03F		FF76K		FL66H		FU45P		FY82M		0402105-08		0406039-02		0408044-05		0411051-02	
5		11/12/02		2/12/03		5/9/03		8/28/03		10/24/03		2/20/04		6/7/04		8/06/04		11/9/04	
123	**PAHs (µg/L)**																		
124	**EPA Method SW8270 SIM**																		
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		1	U	NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		1	U	NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D	
		AH76P		AU45H		BC27D		BH96H		BR64L		CB85H		CL03O		CT67A		DE87I		DM30E		DW29D		ED30C		EN00C		ER93E	
		5/19/99		9/22/99		12/7/99		2/17/00		5/25/00		8/31/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02	
1	**CHLORINATED PHENOLS (µg/L)**																												
2	**EPA Method SW8040**																												
3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.27	U
4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA	
10																													
11	**SEMIVOLATILES (µg/L)**																												
12	**EPA Method SW8270**																												
13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.2	U
14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U
15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U
16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.3	U
17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	30	U	50	U	50	U	54	U
18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U
19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U
20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.4	U
21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.4	U
22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U
23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U
24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U
25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.4	U
26	bis(2-Ethylhexyl)phthalate	3.2	U	**1.3**		1.0	U	**1.1**		**1.7**		1.0	U	**2.7**		**1.2**		1.0	U	**2.0**		1.0	U	4.0	U	4.0	U	4.3	U
27																													
28	**VOLATILES (µg/L)**																												
29	**EPA Method SW8260**																												
30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**11**		5.0	U	5.0	U	5	U
31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U
33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U
	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
49																													
50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
51	**Method OR-DEQ**																												
52	**TPH-Diesel**	0.25	U	**0.32**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		0.50	U	NA		NA		NA		NA		NA		NA		NA	
54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
55																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
3		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D	
4		EZ17I		FF76C		FL41N		FU45K		FY82B		0402113-02		0406073-02		0408044-03		0411051-03	
5		11/13/02		2/12/03		5/7/03		8/28/03		10/23/03		2/23/04		6/10/04		8/06/04		11/9/04	
7	**CHLORINATED PHENOLS (µg/L)**																		
8	**EPA Method SW8040**																		
9	Pentachlorophenol	**0.47**		0.25	U	**0.36**		**4**	J	**0.94**		0.491	U	0.509	U	0.5	U	4.93	U
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																			
17	**SEMIVOLATILES (µg/L)**																		
18	**EPA Method SW8270**																		
19	Phenol	2.1	U	2	U	2	U	2	U	2	U	2	U	2.14	U	2	U	1.97	U
20	4-Methylphenol	1.1	U	1	U	1	U	1	U	1	U	9.99	U	10.7	U	10	U	9.85	U
21	Isophorone	1.1	U	1	U	1	U	1	U	1	U	0.999	U	1.07	U	1	U	0.985	U
22	2,4-Dimethylphenol	3.2	U	3	U	3	U	3.1	U	3	U	3	U	3.21	U	3	U	2.96	U
23	Benzoic Acid	53	U	50	U	50	U	51	U	10	U	20	U	21.4	U	20	U	19.7	U
24	Naphthalene	1.1	U	1	U	1	U	1	U	1	U	0.999	U	1.07	U	1	U	0.985	U
25	2-Methylnaphthalene	1.1	U	1	U	1	U	1	U	1	U	0.999	U	1.07	U	1	U	0.985	U
26	2,4,6-Trichlorophenol	5.3	U	5	U	5	U	5.1	U	5	U	5	U	5.35	U	5	U	4.93	U
27	2,4,5-Trichlorophenol	5.3	U	5	U	5	U	5.1	U	5	U	5	U	5.35	U	5	U	4.93	U
28	Acenaphthene	1.1	U	1	U	1	U	1	U	1	U	0.999	U	1.07	U	1	U	0.985	U
29	Dibenzofuran	1.1	U	1	U	1	U	1	U	1	U	0.999	U	1.07	U	1	U	0.985	U
30	Fluorene	1.1	U	1	U	1	U	1	U	1	U	0.999	U	1.07	U	1	U	0.985	U
31	Pentachlorophenol	5.3	U	5	U	5	U	5.1	U	5	U	5	U	5.35	U	5	U	0.489	U
32	bis(2-Ethylhexyl)phthalate	4.3	U	1	U	1	U	1	U	1	U	0.999	U	1.07	U	1	U	0.985	U
33																			
34	**VOLATILES (µg/L)**																		
35	**EPA Method SW8260**																		
36	Acetone	5	U	5	U	5	U	5	U	5	U	50	U	50	U	50	U	50	U
37	Carbon Disulfide	1	U	1	U	1	U	1	U	1	U	2	U	2	U	2	U	2	U
38	2-Butanone	5	U	5	U	5	U	5	U	5	U	10	U	10	U	10	U	10	U
39	Benzene	1	U	1	U	1	U	1	U	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
43	Styrene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	1	U	1	U	1	U	1	U	1	U	2	U	2	U	2	U	2	U
45	o-Xylene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
48	Isopropylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
49	n-Propylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
50	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
52	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
54	Naphthalene	5	U	5	U	5	U	5	U	5	U	1	U	1	U	1	U	1	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		1	U	1	U	1	U	1	U
56																			
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																		
58	**Method OR-DEQ**																		
59	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.247	U	0.238	U	0.245	U	0.24	U
60	**TPH-D Motor Oil**	0.5	U	NA		NA		NA		0.5	U	0.494	U	0.476	U	0.49	U	0.481	U
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																			

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D	
4			AH76P		AU45H		BC27D		BH96H		BR64L		CB85H		CL03O		CT67A		DE87I		DM30E		DW29D		ED30C		EN00C		ER93E	
5			5/19/99		9/22/99		12/7/99		2/17/00		5/25/00		8/31/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02	
63	56	**PRIORITY POLLUTANT**																												
64	57	**METALS (mg/L)**																												
65	58	Arsenic (7060)	**0.038**		**0.038**		**0.022**		**0.032**		**0.025**		**0.037**		**0.022**		**0.025**		**0.023**		**0.027**		**0.017**		**0.019**		**0.031**		**0.026**	
66	59	Chromium (6010)	0.005	U	**0.021**		**0.006**		0.005	U	0.005	U	**0.034**		**0.013**		**0.011**		**0.008**		**0.019**		**0.010**		0.005	U	0.005	U	**0.007**	
67	60	Copper (6010)	**0.003**		**0.028**		**0.011**		0.002	U	**0.005**		**0.045**		**0.021**		**0.015**		**0.009**		**0.024**		**0.012**		**0.009**		**0.004**		**0.009**	
68	61	Lead (7421)	**0.001**		**0.008**		**0.003**		0.001	U	**0.002**		**0.012**		**0.006**		**0.006**		**0.003**		**0.008**		**0.004**		**0.002**		0.001	U	**0.004**	
69	62	Nickel (6010)	0.01	U	0.02	U	0.01	U	0.01	U	0.01	U	**0.03**		0.01	U	0.01	U	0.01	U	**0.01**		0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	**0.018**		**0.046**		0.022	U	**0.010**		**0.010**		**0.076**		**0.030**		**0.031**		**0.018**		**0.039**		**0.022**		**0.015**	J	**0.010**		**0.018**	
71	64																													
72	65	**MAJOR IONS AND CONVENTIONALS**																												
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**19.2**		**20.4**		**22.5**		**21.0**		**19.0**		**19.1**		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**9.95**		**10.3**		**12.1**		**10.3**		**9.55**		**9.37**		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**1.1**		**1.2**		**1.5**		**0.9**		**1.0**		**0.7**		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**8.31**		**9.80**		**9.09**		**9.65**		**9.06**		**8.77**		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		**110**		NA		NA		NA		**100**		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		**110**		NA		NA		NA		**100**		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**180**		**180**		**170**		**150**		**150**		**170**		**160**		**150**		**150**	J	**160**	J	**150**		**100**		**140**		**150**	
81	74	Chloride (mg/L) (EPA 325.2)	**1.7**		**1.9**		**2.1**		**3.5**		**2.3**		**14**		**2.0**		**2.6**	J	**1.9**		**4.1**		**1.7**		**1.3**	J	**2.1**		**2.2**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**0.012**		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**0.013**		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**0.025**		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		**6.2**		NA		NA		NA		**7.5**		NA		NA	
86	79																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
3		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D	
4		EZ17I		FF76C		FL41N		FU45K		FY82B		0402113-02		0406073-02		0408044-03		0411051-03	
5		11/13/02		2/12/03		5/7/03		8/28/03		10/23/03		2/23/04		6/10/04		8/06/04		11/9/04	
63	**PRIORITY POLLUTANT**																		
64	**METALS (mg/L)**																		
65	Arsenic (7060)	0.05	U	**0.011**		**0.008**		**0.026**		**0.024**		**0.023**		**0.019**		**0.0198**		**0.0168**	
66	Chromium (6010)	**0.009**		0.005	U	0.005	U	0.005	U	**0.012**		**0.0114**		**0.0156**		**0.0185**		**0.0233**	
67	Copper (6010)	**0.012**		**0.004**	J	**0.003**		**0.004**		**0.011**		0.01	U	0.01	U	0.01	U	0.01	U
68	Lead (7421)	0.02	U	0.001	U	**0.001**		0.001	U	**0.003**		**0.0010**		0.0001	U	**0.00123**		**0.0021**	
69	Nickel (6010)	**0.01**		0.01	U	0.01	U	0.01	U	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U
70	Zinc (6010)	**0.026**		**0.01**		**0.019**		0.006	U	**0.024**		0.01	U	0.01	U	0.01	U	**0.0159**	
71																			
72	**MAJOR IONS AND CONVENTIONALS**																		
73	Calcium (mg/L) (6010)	NA		**14.1**		NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		**5.88**		NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		**1.2**		NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		**8.5**		NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		**96**		NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		1	U	NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		**96**		NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**170**		**130**		**88**		**120**	J	**120**		**162**		**161**		**113**		**156**	
81	Chloride (mg/L) (EPA 325.2)	**2.5**		**1.9**		**1.6**		**1.4**		**1.5**		**1.56**		**1.53**		**1.42**		**1.34**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		**0.025**		NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		0.01	U	NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		**0.025**		NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		**7.4**		NA		NA		NA		NA		NA		NA		NA	
86																			

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D	
4			AH76P		AU45H		BC27D		BH96H		BR64L		CB85H		CL03O		CT67A		DE87I		DM30E		DW29D		ED30C		EN00C		ER93E	
5			5/19/99		9/22/99		12/7/99		2/17/00		5/25/00		8/31/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02	
87	80	**FIELD PARAMETERS**																												
88	81	pH (avg)	6.44		6.49		6.79		6.86		6.90		6.71		6.10		6.72		6.88		7.03		6.80		6.50		6.56		6.67	
89	82	Temperature (° C) (avg)	14.7		17.1		12.6		15.8		13.9		13.8		13.0		13.7		13.7		16.2		14.1		13.5		14.1		14.3	
90	83	Conductivity (um/hos)	195		233		220		246		255		208		203		204		228		216		216		164		189		180	
91	84	Dissolved oxygen (mg/L) (avg)	2.03		1.29		2.53		0.52		0.72		1.47		1.09		0.52		2.70		0.63		3.97		7.74		5.59		0.95	
92	85																													
93	86	**DIOXINS AND FURANS (ng/L)**																												
94	87	**Method 8290**																												
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																														
121																														
122																														

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1																			
2																			
3		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D	
4		EZ17I		FF76C		FL41N		FU45K		FY82B		0402113-02		0406073-02		0408044-03		0411051-03	
5		11/13/02		2/12/03		5/7/03		8/28/03		10/23/03		2/23/04		6/10/04		8/06/04		11/9/04	
87	**FIELD PARAMETERS**																		
88	pH (avg)	6.35		7.14		7.18		7.07		6.48		6.47		6.71		6.2		6.8	
89	Temperature (° C) (avg)	13.7		13.6		13.4		15.8		17.9		15.7		14.5		14		13.8	
90	Conductivity (um/hos)	188		178		93		122		164		151		140		236		157	
91	Dissolved oxygen (mg/L) (avg)	1.22		1.47		5.73		2.33		5.66		4.49		1.71		4.91		1.66	
92																			
93	**DIOXINS AND FURANS (ng/L)**																		
94	**Method 8290**																		
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																			
121																			
122																			

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D	
4			AH76P		AU45H		BC27D		BH96H		BR64L		CB85H		CL03O		CT67A		DE87I		DM30E		DW29D		ED30C		EN00C		ER93E	
5			5/19/99		9/22/99		12/7/99		2/17/00		5/25/00		8/31/00		11/9/00		2/15/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02	
6																														
123		**PAHs (µg/L)**																												
124		**EPA Method SW8270 SIM**																												
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1																			
2																			
3		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D		LW10D	
4		EZ17I		FF76C		FL41N		FU45K		FY82B		0402113-02		0406073-02		0408044-03		0411051-03	
5		11/13/02		2/12/03		5/7/03		8/28/03		10/23/03		2/23/04		6/10/04		8/06/04		11/9/04	
123	**PAHs (µg/L)**																		
124	**EPA Method SW8270 SIM**																		
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		1	U	NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		1	U	NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
3			LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D
4			AH76H		AU45C		BC27I		BH96L		BR64G		CB49F		CK77H		CT55D		DE68B		DM52G		DW48B		ED34E		EM85C		ES04C
5			5/20/99		9/22/99		12/8/99		2/18/00		5/24/00		8/29/00		11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/28/02		6/26/02		08/28/02
7	1	**CHLORINATED PHENOLS (µg/L)**																											
8	2	**EPA Method SW8040**																											
9	3	Pentachlorophenol	**46**		**8.1**		**1.1**		**0.36**		0.25	U	0.25	U	0.25	U	**1.6**		0.25	U	0.25	U	**0.62**		**0.76**		0.25	U	0.26
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA
12	6	2,4,5-Trichlorophenol	0.57	U	1.3	U	0.39	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**2.2**		**1.5**		**0.36**		**0.12**	J1	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA
15	9	2,3,4,5-Tetrachlorophenol	**2.2**		**1.1**		**0.27**		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA
16	10																												
17	11	**SEMIVOLATILES (µg/L)**																											
18	12	**EPA Method SW8270**																											
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.6**		1.0	U	1.0	U	1
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.1
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	30	U	50	U	50	U	51
24	18	Naphthalene	**1.3**		1.0	U	**0.9**	J1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
25	19	2-Methylnaphthalene	1.0	U	1.0	U	**0.6**	J1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.1
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.1
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
31	25	Pentachlorophenol	**55**		**5.0**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.1
32	26	bis(2-Ethylhexyl)phthalate	3.5	U	1.0	U	**2.6**		**2.7**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.9**		4.0	U	4.0	U	4.1
33	27																												
34	28	**VOLATILES (µg/L)**																											
35	29	**EPA Method SW8260**																											
36	30	Acetone	**8.9**		**16**		5.0	U	5.0	U	5.0	U	**8.4**		**12**			R	**35**		**10**		**130**		5.0	U	**54**		**27**
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
38	32	2-Butanone	5.0	U	22	U	5.9	U	5.0	U	**5.4**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
42	36	Ethylbenzene	**16**		**7.2**		**3.2**		**1.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
44	38	m,p-Xylene	**22**		**7.4**		**2.1**		**1.3**		**1.6**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
45	39	o-Xylene	**21**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
46	40	1,3,5-Trimethylbenzene	**34**		**26**		**10**		**7.5**		**8.0**		**4.4**		**3.1**		**4.2**		**3.4**		**2.2**		**1.1**		1.0	U	1.0	U	1
47	41	1,2,4-Trimethylbenzene	**97**		**40**		**12**		**9.0**		**12**		**6.7**		**5.6**		**7.0**		**5.7**		**3.6**		**1.7**		1.0	U	**1.4**		1
48	42	Isopropylbenzene	**12**		**11**		**6.9**		**4.0**		**2.4**		**1.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
49	43	n-Propylbenzene	**18**		**20**		**13**		**7.5**		**4.8**		**2.8**		**1.6**		**1.3**		**1.2**		**1.2**		1.0	U	1.0	U	1.0	U	1
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
51	45	sec-Butylbenzene	**4.6**		**5.3**		**4.8**		**3.7**		**2.7**		**2.2**		**1.7**		**1.2**		**1.2**		**1.4**		**1.2**		1.0	U	1.0	U	1
52	46	4-Isopropyltoluene	**6.7**		**5.0**		**2.0**		**1.6**		**1.9**		**1.7**		1.0	U	**1.0**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1
53	47	n-Butylbenzene	**5.8**		4.1	U	2.3	U	**2.3**		**2.2**	M	**2.4**	M	**1.5**		**1.4**	M	**1.5**		**1.5**		1.0	U	1.0	U	1.0	U	1
54	48	Naphthalene	**5.3**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																												
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																											
58	51	**Method OR-DEQ**																											
59	52	**TPH-Diesel**	**0.68**		**1.4**		**0.76**		**0.60**		**0.74**		**0.88**		**0.70**		**1.1**		**1.0**		**0.88**		**0.98**		**0.87**		**1.1**		**0.97**
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																												

BZTO104(e)022537

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1																		
2																		
3			LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D	
4			EZ03B		FF88D		FL66I		FU50B		FY82J		0402113-11		0408044-02		0411066-08	
5			11/12/02		2/13/03		5/9/03		8/29/03		10/24/03		2/23/04		8/06/04		11/11/04	
6																		
7	**CHLORINATED PHENOLS (µg/L)**																	
8	**EPA Method SW8040**																	
9	Pentachlorophenol	U	0.25	U	0.26	U	0.26	U	**5.6**		0.55	U	**1.5**		0.5	U	4.95	U
10	2,4,6-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol		NA		NA		NA		NA		NA		NA		NA		NA	
16																		
17	**SEMIVOLATILES (µg/L)**																	
18	**EPA Method SW8270**																	
19	Phenol	U	2.2	U	2	U	2	U	2.1	U	2.2	U	1.95	U	2	U	1.98	U
20	4-Methylphenol	U	1.1	U	1	U	1	U	1	U	1.1	U	9.76	U	10	U	9.89	U
21	Isophorone	U	1.1	U	1	U	1	UJ	1	U	1.1	U	0.976	U	1	U	0.989	U
22	2,4-Dimethylphenol	U	3.3	U	3.1	U	3.1	U	3.1	U	3.3	U	2.93	U	3	U	2.97	U
23	Benzoic Acid	U	54	U	51	U	51	U	52	U	11	U	19.5	U	20	U	19.8	U
24	Naphthalene	U	1.1	U	1	U	1	UJ	1	U	1.1	U	0.976	U	1	U	0.989	U
25	2-Methylnaphthalene	U	1.1	U	1	U	1	UJ	1	U	1.1	U	0.976	U	1	U	0.989	U
26	2,4,6-Trichlorophenol	U	5.4	U	5.1	U	5.1	U	5.2	U	5.5	U	4.88	U	5	U	4.95	U
27	2,4,5-Trichlorophenol	U	5.4	U	5.1	U	5.1	U	5.2	U	5.5	U	4.88	U	5	U	4.95	U
28	Acenaphthene	U	1.1	U	1	U	1	UJ	1	U	1.1	U	0.976	U	1	U	0.989	U
29	Dibenzofuran	U	1.1	U	1	U	1	UJ	1	U	1.1	U	0.976	U	1	U	0.989	U
30	Fluorene	U	1.1	U	1	U	1	UJ	1	U	1.1	U	0.976	U	1	U	0.989	U
31	Pentachlorophenol	U	5.4	U	5.1	U	5.1	U	5.2	U	5.5	U	4.88	U	5	U	NA	
32	bis(2-Ethylhexyl)phthalate	U	4.3	U	**1.9**		1	UJ	**1.9**		**1.5**		**1.86**		**1.71**		**1.17**	
33																		
34	**VOLATILES (µg/L)**																	
35	**EPA Method SW8260**																	
36	Acetone		**31**		**26**		**140**		**11**		**71**		50	U	50	U	50	U
37	Carbon Disulfide	U	1	U	1	U	1	U	1	U	1	U	2	U	2	U	2	U
38	2-Butanone	U	5	U	5	U	5	U	5	U	5	U	10	U	10	U	10	U
39	Benzene	U	1	U	1	U	1	U	1	U	1	U	0.4	U	0.3	U	0.3	U
40	Bromoform	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
43	Styrene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	U	1	U	1	U	1	U	1	U	1	U	2	U	2	U	2	U
45	o-Xylene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
48	Isopropylbenzene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
49	n-Propylbenzene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
50	tert-Butylbenzene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
52	4-Isopropyltoluene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
54	Naphthalene	U	5	U	5	U	5	U	5	U	5	U	1	U	1	U	1	U
55	Methyl tert-butyl ether		NA		NA		NA		NA		NA		1	U	1	U	1	U
56																		
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																	
58	**Method OR-DEQ**																	
59	**TPH-Diesel**		**0.8**		**0.74**		**0.91**		**1.1**		**0.66**		**0.562**		**0.79**		NA	
60	**TPH-D Motor Oil**		NA		NA		NA		NA		0.5	U	0.504	U	0.51	U	NA	
61	**TPH-Gasoline**		NA		NA		NA		NA		NA		NA		NA		NA	
62																		

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D
4			AH76H		AU45C		BC27I		BH96L		BR64G		CB49F		CK77H		CT55D		DE68B		DM52G		DW48B		ED34E		EM85C		ES04C
5			5/20/99		9/22/99		12/8/99		2/18/00		5/24/00		8/29/00		11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/28/02		6/26/02		08/28/02
63	56	**PRIORITY POLLUTANT**																											
64	57	**METALS (mg/L)**																											
65	58	Arsenic (7060)	**0.006**		**0.008**		**0.006**		**0.007**		**0.007**		**0.007**		**0.007**		**0.006**		**0.007**		**0.009**		**0.009**		**0.007**		**0.007**		**0.005**
66	59	Chromium (6010)	**0.008**		**0.053**		**0.015**		**0.011**		**0.013**		**0.018**		**0.016**		0.005	U	0.005	U	**0.024**		0.005	U	0.005	U	0.005	U	**0.02**
67	60	Copper (6010)	**0.005**		**0.051**		**0.016**		**0.013**		**0.014**		**0.017**		**0.018**	J2	**0.005**		**0.002**		**0.024**		0.004	U	**0.007**		**0.003**		**0.02**
68	61	Lead (7421)	**0.002**		**0.018**		**0.007**		**0.004**		**0.008**		**0.006**		**0.008**		**0.002**		**0.002**		**0.008**		**0.004**		**0.002**		0.001	U	**0.007**
69	62	Nickel (6010)	0.01	U	0.04	U	0.01	U	**0.01**		0.01	U	**0.02**		**0.01**		0.01	U	0.01	U	**0.02**		0.01	U	0.01	U	0.01	U	**0.01**
70	63	Zinc (6010)	**0.030**		**0.142**		**0.047**		**0.042**		**0.040**		**0.052**		**0.058**		**0.023**		**0.018**		**0.064**		**0.022**		**0.022**		**0.013**		**0.053**
71	64																												
72	65	**MAJOR IONS AND CONVENTIONALS**																											
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**54.9**		**61.5**		**55.9**		**58.6**		**60.0**		NA		NA
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**26.4**		**31.0**		**27.6**		**28.6**		**31.3**		NA		NA
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**1.7**		**1.9**		**2.9**		**2.1**		**2.2**		NA		NA
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**15.6**		**16.6**		**17.5**		**16.2**		**17.6**		NA		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		**350**		NA		NA		NA		**370**		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		1.0	U	NA		NA		NA		1.0	U	NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		**350**		NA		NA		NA		**370**		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**420**		**310**		**310**		**290**		**350**		**380**		**380**		**360**		**370**		**300**		**340**		**340**		**410**		**390**
81	74	Chloride (mg/L) (EPA 325.2)	**9.2**		**10**		**11**		**11**		**10**		**10**		**14**		**7.7**		**8.8**		**8.3**		**7.5**		**9.8**		**12**		**9.8**
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**0.024**		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**0.025**		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		**0.049**		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		**6.3**		NA		NA		NA		**7.6**		NA		NA
86	79																												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1																		
2																		
3			LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D	
4			EZ03B		FF88D		FL66I		FU50B		FY82J		0402113-11		0408044-02		0411066-08	
5			11/12/02		2/13/03		5/9/03		8/29/03		10/24/03		2/23/04		8/06/04		11/11/04	
63	**PRIORITY POLLUTANT**																	
64	**METALS (mg/L)**																	
65	Arsenic (7060)		0.05	U	**0.008**		**0.007**		**0.005**		**0.005**		**0.007**		**0.00558**		**0.00441**	
66	Chromium (6010)		**0.032**		0.005	U	0.005	U	**0.007**		**0.016**		**0.0104**		**0.0176**		**0.0216**	
67	Copper (6010)		**0.034**		**0.007**		**0.004**		**0.008**		**0.015**		0.01	U	0.01	U	0.01	U
68	Lead (7421)		0.02	U	**0.002**		**0.002**		**0.002**		**0.004**		**0.0019**		**0.00274**		**0.00301**	
69	Nickel (6010)		**0.05**		**0.05**		**0.01**		**0.01**		**0.02**		0.005	U	0.005	U	0.005	U
70	Zinc (6010)		**0.096**		**0.024**		**0.019**		**0.025**		**0.041**		0.01	U	**0.0216**		**0.0246**	
71																		
72	**MAJOR IONS AND CONVENTIONALS**																	
73	Calcium (mg/L) (6010)		NA		**70.4**		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)		NA		**31.7**		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)		NA		**2.6**		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)		NA		**17.5**		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		**310**		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		1	U	NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		**310**		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**470**		**380**		**320**		**260**		**290**		**361**		**303**		**333**	
81	Chloride (mg/L) (EPA 325.2)		**7.4**		**7.8**		**6.7**		**4.6**		**5.8**		**6.68**		**4.59**		**4.54**	
82	N-Nitrate (mg-N/L) (Calculated)		NA		**0.02**		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		0.01	U	NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		**0.02**		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)		NA		**96**		NA		NA		NA		NA		NA		NA	
86																		

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D
4			AH76H		AU45C		BC27I		BH96L		BR64G		CB49F		CK77H		CT55D		DE68B		DM52G		DW48B		ED34E		EM85C		ES04C
5			5/20/99		9/22/99		12/8/99		2/18/00		5/24/00		8/29/00		11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/28/02		6/26/02		08/28/02
87	80	**FIELD PARAMETERS**																											
88	81	pH (avg)	6.51		6.75		6.54		6.44		6.63		6.35		5.75		6.38		6.75		7.80		6.68		6.52		6.56		6.44
89	82	Temperature (° C) (avg)	15.5		15.3		12.1		12.0		17.0		15.0		12.8		12.3		13.3		14.7		12.6		12.8		14.9		15.7
90	83	Conductivity (um/hos)	630		487		617		551		643		523		544		454		493		488		473		576		694		466
91	84	Dissolved oxygen (mg/L) (avg)	1.96		1.53		1.33		1.86		1.53		1.49		1.23		1.14		1.45		1.43		3.48		8.44		3.33		1.30
92	85																												
93	86	**DIOXINS AND FURANS (ng/L)**																											
94	87	**Method 8290**																											
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																													
121																													
122																													

BZTO104(e)022541

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1																		
2																		
3			LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D	
4			EZ03B		FF88D		FL66I		FU50B		FY82J		0402113-11		0408044-02		0411066-08	
5			11/12/02		2/13/03		5/9/03		8/29/03		10/24/03		2/23/04		8/06/04		11/11/04	
87	**FIELD PARAMETERS**																	
88	pH (avg)		6.2		6.96		6.81		6.7		6.48		6.53		6.3		6.69	
89	Temperature (° C) (avg)		14		13.6		14.3		14.4		13.3		14.1		14.3		13.6	
90	Conductivity (um/hos)		642		704		419		334		376		485		678		463	
91	Dissolved oxygen (mg/L) (avg)		0.48		0		2.57		2.31		2.80		1.13		3.15		1.34	
92																		
93	**DIOXINS AND FURANS (ng/L)**																	
94	**Method 8290**																	
95	2,3,7,8-TCDF		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD		NA		NA		NA		NA		NA		NA		NA		NA	
120																		
121																		
122																		

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3			LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D
4			AH76H		AU45C		BC27I		BH96L		BR64G		CB49F		CK77H		CT55D		DE68B		DM52G		DW48B		ED34E		EM85C		ES04C
5			5/20/99		9/22/99		12/8/99		2/18/00		5/24/00		8/29/00		11/8/00		2/14/01		6/5/01		8/15/01		11/29/01		2/28/02		6/26/02		08/28/02
6																													
123		**PAHs (µg/L)**																											
124		**EPA Method SW8270 SIM**																											
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1																		
2																		
3			LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D		LW11D	
4			EZ03B		FF88D		FL66I		FU50B		FY82J		0402113-11		0408044-02		0411066-08	
5			11/12/02		2/13/03		5/9/03		8/29/03		10/24/03		2/23/04		8/06/04		11/11/04	
123	**PAHs (µg/L)**																	
124	**EPA Method SW8270 SIM**																	
125	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene		NA		NA		NA		NA		NA		NA		1	U	NA	
128	Acenaphthene		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene		NA		NA		NA		NA		NA		NA		1	U	NA	
131	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2					Dup of LW14D																								
3			LW14D		W		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D
4			BR64R		BR64Q		CT67N		DE87E		DM30Q		DW29J		ED30E		EN00E		ER93F		EZ17C		FF65E		FL58D		FU45L		FY82C
5			5/25/00		5/25/00		2/14/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/13/02		2/11/03		5/8/03		8/28/03		10/23/03
6																													
7	1	**CHLORINATED PHENOLS (µg/L)**																											
8	2	**EPA Method SW8040**																											
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.27	U	0.25	U	0.25	U	0.25	U	**2.3**	J	0.5
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
16	10																												
17	11	**SEMIVOLATILES (µg/L)**																											
18	12	**EPA Method SW8270**																											
19	13	Phenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
20	14	4-Methylphenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
21	15	Isophorone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
22	16	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
23	17	Benzoic Acid	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
24	18	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
25	19	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
26	20	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
27	21	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
28	22	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
29	23	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
30	24	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
31	25	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
33	27																												
34	28	**VOLATILES (µg/L)**																											
35	29	**EPA Method SW8260**																											
36	30	Acetone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
37	31	Carbon Disulfide	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
38	32	2-Butanone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
39	33	Benzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
40	34	Bromoform	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
41	35	Toluene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
42	36	Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
43	37	Styrene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
44	38	m,p-Xylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
45	39	o-Xylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
46	40	1,3,5-Trimethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
47	41	1,2,4-Trimethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
48	42	Isopropylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
49	43	n-Propylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
50	44	tert-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
51	45	sec-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
52	46	4-Isopropyltoluene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
53	47	n-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
54	48	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																												
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																											
58	51	**Method OR-DEQ**																											
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH
1						
2						
3			LW14D		LW14D	
4			0402113-03		0408036-05	
5			2/23/04		8/05/04	
6						
7	**CHLORINATED PHENOLS (µg/L)**					
8	**EPA Method SW8040**					
9	Pentachlorophenol	U	0.557	U	0.5	U
10	2,4,6-Trichlorophenol		NA		NA	
11	2,3,6-Trichlorophenol		NA		NA	
12	2,4,5-Trichlorophenol		NA		NA	
13	2,3,4-Trichlorophenol		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol		NA		NA	
15	2,3,4,5-Tetrachlorophenol		NA		NA	
16						
17	**SEMIVOLATILES (µg/L)**					
18	**EPA Method SW8270**					
19	Phenol		NA		NA	
20	4-Methylphenol		NA		NA	
21	Isophorone		NA		NA	
22	2,4-Dimethylphenol		NA		NA	
23	Benzoic Acid		NA		NA	
24	Naphthalene		NA		NA	
25	2-Methylnaphthalene		NA		NA	
26	2,4,6-Trichlorophenol		NA		NA	
27	2,4,5-Trichlorophenol		NA		NA	
28	Acenaphthene		NA		NA	
29	Dibenzofuran		NA		NA	
30	Fluorene		NA		NA	
31	Pentachlorophenol		NA		NA	
32	bis(2-Ethylhexyl)phthalate		NA		NA	
33						
34	**VOLATILES (µg/L)**					
35	**EPA Method SW8260**					
36	Acetone		NA		NA	
37	Carbon Disulfide		NA		NA	
38	2-Butanone		NA		NA	
39	Benzene		NA		NA	
40	Bromoform		NA		NA	
41	Toluene		NA		NA	
42	Ethylbenzene		NA		NA	
43	Styrene		NA		NA	
44	m,p-Xylene		NA		NA	
45	o-Xylene		NA		NA	
46	1,3,5-Trimethylbenzene		NA		NA	
47	1,2,4-Trimethylbenzene		NA		NA	
48	Isopropylbenzene		NA		NA	
49	n-Propylbenzene		NA		NA	
50	tert-Butylbenzene		NA		NA	
51	sec-Butylbenzene		NA		NA	
52	4-Isopropyltoluene		NA		NA	
53	n-Butylbenzene		NA		NA	
54	Naphthalene		NA		NA	
55	Methyl tert-butyl ether		NA		NA	
56						
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**					
58	**Method OR-DEQ**					
59	**TPH-Diesel**		NA		NA	
60	**TPH-D Motor Oil**		NA		NA	
61	**TPH-Gasoline**		NA		NA	
62						

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2					Dup of LW14D																								
3			LW14D		W		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D
4			BR64R		BR64Q		CT67N		DE87E		DM30Q		DW29J		ED30E		EN00E		ER93F		EZ17C		FF65E		FL58D		FU45L		FY82C
5			5/25/00		5/25/00		2/14/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/13/02		2/11/03		5/8/03		8/28/03		10/23/03
63	56	**PRIORITY POLLUTANT**																											
64	57	**METALS (mg/L)**																											
65	58	Arsenic (7060)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
66	59	Chromium (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
67	60	Copper (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
68	61	Lead (7421)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
69	62	Nickel (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
70	63	Zinc (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
71	64																												
72	65	**MAJOR IONS AND CONVENTIONALS**																											
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
86	79																												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH
1						
2						
3			LW14D		LW14D	
4			0402113-03		0408036-05	
5			2/23/04		8/05/04	
63	**PRIORITY POLLUTANT**					
64	**METALS (mg/L)**					
65	Arsenic (7060)		NA		NA	
66	Chromium (6010)		NA		NA	
67	Copper (6010)		NA		NA	
68	Lead (7421)		NA		NA	
69	Nickel (6010)		NA		NA	
70	Zinc (6010)		NA		NA	
71						
72	**MAJOR IONS AND CONVENTIONALS**					
73	Calcium (mg/L) (6010)		NA		NA	
74	Magnesium (mg/L) (6010)		NA		NA	
75	Potassium (mg/L) (6010)		NA		NA	
76	Sodium (mg/L) (6010)		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		NA		NA	
81	Chloride (mg/L) (EPA 325.2)		NA		NA	
82	N-Nitrate (mg-N/L) (Calculated)		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)		NA		NA	
86						

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2					Dup of LW14D																								
3			LW14D		W		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D
4			BR64R		BR64Q		CT67N		DE87E		DM30Q		DW29J		ED30E		EN00E		ER93F		EZ17C		FF65E		FL58D		FU45L		FY82C
5			5/25/00		5/25/00		2/14/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/13/02		2/11/03		5/8/03		8/28/03		10/23/03
87	80	**FIELD PARAMETERS**																											
88	81	pH (avg)	6.64		6.64		6.15		6.65		6.81		6.61		6.35		6.64		6.73		6.22		7.05		6.69		6.98		6.56
89	82	Temperature (° C) (avg)	14.1		14.2		12.9		13.5		14.1		12.4		13.6		13.9		14.8		13.4		14.3		13.3		16.1		14.2
90	83	Conductivity (um/hos)	312		312		345		371		296		362		356		487		434		477		426		258		224		238
91	84	Dissolved oxygen (mg/L) (avg)	4.54		4.52		0.12		1.17		0.83		4.12		7.36		5.08		2.09		0.77		2.48		3.06		1.54		2.29
92	85																												
93	86	**DIOXINS AND FURANS (ng/L)**																											
94	87	**Method 8290**																											
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																													
121																													
122																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH
1						
2						
3			LW14D		LW14D	
4			0402113-03		0408036-05	
5			2/23/04		8/05/04	
87	**FIELD PARAMETERS**					
88	pH (avg)		6.38		6.1	
89	Temperature (° C) (avg)		13.7		16	
90	Conductivity (um/hos)		239		356	
91	Dissolved oxygen (mg/L) (avg)		1.11		3.07	
92						
93	**DIOXINS AND FURANS (ng/L)**					
94	**Method 8290**					
95	2,3,7,8-TCDF		NA		NA	
96	Total TCDF		NA		NA	
97	2,3,7,8-TCDD		NA		NA	
98	Total TCDD		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA	
101	Total PeCDF		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA	
103	Total PeCDD		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA	
108	Total HxCDF		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA	
112	Total HxCDD		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA	
115	Total HpCDF		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA	
117	Total HpCDD		NA		NA	
118	OCDF		NA		NA	
119	OCDD		NA		NA	
120						
121						
122						

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2					Dup of LW14D																								
3			LW14D		W		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D		LW14D
4			BR64R		BR64Q		CT67N		DE87E		DM30Q		DW29J		ED30E		EN00E		ER93F		EZ17C		FF65E		FL58D		FU45L		FY82C
5			5/25/00		5/25/00		2/14/01		6/6/01		8/13/01		11/27/01		2/27/02		6/27/02		08/27/02		11/13/02		2/11/03		5/8/03		8/28/03		10/23/03
6																													
123		**PAHs (µg/L)**																											
124		**EPA Method SW8270 SIM**																											
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AD	AE	AF	AG	AH
1						
2						
3			LW14D		LW14D	
4			0402113-03		0408036-05	
5			2/23/04		8/05/04	
123	**PAHs (µg/L)**					
124	**EPA Method SW8270 SIM**					
125	Naphthalene		NA		NA	
126	2-Methylnaphthalene		NA		NA	
127	Acenaphthylene		NA		NA	
128	Acenaphthene		NA		NA	
129	Fluorene		NA		NA	
130	Anthracene		NA		NA	
131	Dibenzofuran		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW16D		LW16D	
4			BR64U		0408036-04	
5			5/25/00		8/05/04	
6						
7	1	**CHLORINATED PHENOLS (µg/L)**				
8	2	**EPA Method SW8040**				
9	3	Pentachlorophenol	0.25	U	0.5	U
10	4	2,4,6-Trichlorophenol	0.25	U	NA	
11	5	2,3,6-Trichlorophenol	0.25	U	NA	
12	6	2,4,5-Trichlorophenol	0.25	U	NA	
13	7	2,3,4-Trichlorophenol	0.25	U	NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	NA	
16	10					
17	11	**SEMIVOLATILES (µg/L)**				
18	12	**EPA Method SW8270**				
19	13	Phenol	NA		NA	
20	14	4-Methylphenol	NA		NA	
21	15	Isophorone	NA		NA	
22	16	2,4-Dimethylphenol	NA		NA	
23	17	Benzoic Acid	NA		NA	
24	18	Naphthalene	NA		NA	
25	19	2-Methylnaphthalene	NA		NA	
26	20	2,4,6-Trichlorophenol	NA		NA	
27	21	2,4,5-Trichlorophenol	NA		NA	
28	22	Acenaphthene	NA		NA	
29	23	Dibenzofuran	NA		NA	
30	24	Fluorene	NA		NA	
31	25	Pentachlorophenol	NA		NA	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA	
33	27					
34	28	**VOLATILES (µg/L)**				
35	29	**EPA Method SW8260**				
36	30	Acetone	NA		NA	
37	31	Carbon Disulfide	NA		NA	
38	32	2-Butanone	NA		NA	
39	33	Benzene	NA		NA	
40	34	Bromoform	NA		NA	
41	35	Toluene	NA		NA	
42	36	Ethylbenzene	NA		NA	
43	37	Styrene	NA		NA	
44	38	m,p-Xylene	NA		NA	
45	39	o-Xylene	NA		NA	
46	40	1,3,5-Trimethylbenzene	NA		NA	
47	41	1,2,4-Trimethylbenzene	NA		NA	
48	42	Isopropylbenzene	NA		NA	
49	43	n-Propylbenzene	NA		NA	
50	44	tert-Butylbenzene	NA		NA	
51	45	sec-Butylbenzene	NA		NA	
52	46	4-Isopropyltoluene	NA		NA	
53	47	n-Butylbenzene	NA		NA	
54	48	Naphthalene	NA		NA	
55		Methyl tert-butyl ether	NA	NA	NA	
56	49					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**				
58	51	**Method OR-DEQ**				
59	52	**TPH-Diesel**	NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA	
61	54	**TPH-Gasoline**	NA		NA	
62	55					

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW16D		LW16D	
4			BR64U		0408036-04	
5			5/25/00		8/05/04	
63	56	**PRIORITY POLLUTANT**				
64	57	**METALS (mg/L)**				
65	58	Arsenic (7060)	NA		NA	
66	59	Chromium (6010)	NA		NA	
67	60	Copper (6010)	NA		NA	
68	61	Lead (7421)	NA		NA	
69	62	Nickel (6010)	NA		NA	
70	63	Zinc (6010)	NA		NA	
71	64					
72	65	**MAJOR IONS AND CONVENTIONALS**				
73	66	Calcium (mg/L) (6010)	NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA	
86	79					

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW16D		LW16D	
4			BR64U		0408036-04	
5			5/25/00		8/05/04	
87	80	**FIELD PARAMETERS**				
88	81	pH (avg)	6.74		6.29	
89	82	Temperature (° C) (avg)	14.3		15	
90	83	Conductivity (um/hos)	314		200	
91	84	Dissolved oxygen (mg/L) (avg)	0.71		5.43	
92	85					
93	86	**DIOXINS AND FURANS (ng/L)**				
94	87	**Method 8290**				
95	88	2,3,7,8-TCDF	NA		NA	
96	89	Total TCDF	NA		NA	
97	90	2,3,7,8-TCDD	NA		NA	
98	91	Total TCDD	NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA	
101	94	Total PeCDF	NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA	
103	96	Total PeCDD	NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA	
108	101	Total HxCDF	NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA	
112	105	Total HxCDD	NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA	
115	108	Total HpCDF	NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA	
117	110	Total HpCDD	NA		NA	
118	111	OCDF	NA		NA	
119	112	OCDD	NA		NA	
120						
121						
122						

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW16D		LW16D	
4			BR64U		0408036-04	
5			5/25/00		8/05/04	
123		**PAHs (µg/L)**				
124		**EPA Method SW8270 SIM**				
125		Naphthalene	NA		NA	
126		2-Methylnaphthalene	NA		NA	
127		Acenaphthylene	NA		NA	
128		Acenaphthene	NA		NA	
129		Fluorene	NA		NA	
130		Anthracene	NA		NA	
131		Dibenzofuran	NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																																
2																																
3			LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D			
4			CB85A		CL03R		CT67L		DE87C		DM30P		DW48H		ED34B		EN00J		ER93N		EZ03H		FF88H		FL66F		FU45S		FY82G			
5			8/31/00		11/8/00		2/14/01		6/5/01		8/13/01		11/29/01		2/28/02		6/27/02		08/27/02		11/12/02		2/13/03		5/9/03		8/28/03		10/23/03			
6																																
7	1	**CHLORINATED PHENOLS (µg/L)**																														
8	2	**EPA Method SW8040**																														
9	3	Pentachlorophenol	0.25	U	0.25	U	**0.56**		0.25	U	0.25	U	0.25	U	**6.8**		0.25	U	0.28	U	0.25	U	**0.33**		0.25	U	0.5	U	0.51	U		
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
16	10																															
17	11	**SEMIVOLATILES (µg/L)**																														
18	12	**EPA Method SW8270**																														
19	13	Phenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
20	14	4-Methylphenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
21	15	Isophorone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
22	16	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
23	17	Benzoic Acid	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
24	18	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
25	19	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
26	20	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
27	21	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
28	22	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
29	23	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
30	24	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
31	25	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
33	27																															
34	28	**VOLATILES (µg/L)**																														
35	29	**EPA Method SW8260**																														
36	30	Acetone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
37	31	Carbon Disulfide	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
38	32	2-Butanone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
39	33	Benzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
40	34	Bromoform	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
41	35	Toluene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
42	36	Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
43	37	Styrene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
44	38	m,p-Xylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
45	39	o-Xylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
46	40	1,3,5-Trimethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
47	41	1,2,4-Trimethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
48	42	Isopropylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
49	43	n-Propylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
50	44	tert-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
51	45	sec-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
52	46	4-Isopropyltoluene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
53	47	n-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
54	48	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
56	49																															
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																														
58	51	**Method OR-DEQ**																														
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
62	55																															

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ
1							
2							
3		LW17D		LW17D		LW17D	
4		0402105-06		0408044-08		0411051-08	
5		2/20/04		8/06/04		11/9/04	
6							
7	**CHLORINATED PHENOLS (µg/L)**						
8	**EPA Method SW8040**						
9	Pentachlorophenol	0.497	U	0.5	U	NA	
10	2,4,6-Trichlorophenol	NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA	
16							
17	**SEMIVOLATILES (µg/L)**						
18	**EPA Method SW8270**						
19	Phenol	NA		NA		NA	
20	4-Methylphenol	NA		NA		NA	
21	Isophorone	NA		NA		NA	
22	2,4-Dimethylphenol	NA		NA		NA	
23	Benzoic Acid	NA		NA		NA	
24	Naphthalene	NA		NA		NA	
25	2-Methylnaphthalene	NA		NA		NA	
26	2,4,6-Trichlorophenol	NA		NA		NA	
27	2,4,5-Trichlorophenol	NA		NA		NA	
28	Acenaphthene	NA		NA		NA	
29	Dibenzofuran	NA		NA		NA	
30	Fluorene	NA		NA		NA	
31	Pentachlorophenol	NA		NA		0.495	U
32	bis(2-Ethylhexyl)phthalate	NA		NA		NA	
33							
34	**VOLATILES (µg/L)**						
35	**EPA Method SW8260**						
36	Acetone	NA		NA		NA	
37	Carbon Disulfide	NA		NA		NA	
38	2-Butanone	NA		NA		NA	
39	Benzene	NA		NA		NA	
40	Bromoform	NA		NA		NA	
41	Toluene	NA		NA		NA	
42	Ethylbenzene	NA		NA		NA	
43	Styrene	NA		NA		NA	
44	m,p-Xylene	NA		NA		NA	
45	o-Xylene	NA		NA		NA	
46	1,3,5-Trimethylbenzene	NA		NA		NA	
47	1,2,4-Trimethylbenzene	NA		NA		NA	
48	Isopropylbenzene	NA		NA		NA	
49	n-Propylbenzene	NA		NA		NA	
50	tert-Butylbenzene	NA		NA		NA	
51	sec-Butylbenzene	NA		NA		NA	
52	4-Isopropyltoluene	NA		NA		NA	
53	n-Butylbenzene	NA		NA		NA	
54	Naphthalene	NA		NA		NA	
55	Methyl tert-butyl ether	NA		NA		NA	
56							
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**						
58	**Method OR-DEQ**						
59	**TPH-Diesel**	NA		NA		**2.74**	
60	**TPH-D Motor Oil**	NA		NA		0.489	U
61	**TPH-Gasoline**	NA		NA		**3.83**	
62							

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D	
4			CB85A		CL03R		CT67L		DE87C		DM30P		DW48H		ED34B		EN00J		ER93N		EZ03H		FF88H		FL66F		FU45S		FY82G	
5			8/31/00		11/8/00		2/14/01		6/5/01		8/13/01		11/29/01		2/28/02		6/27/02		08/27/02		11/12/02		2/13/03		5/9/03		8/28/03		10/23/03	
63	56	**PRIORITY POLLUTANT**																												
64	57	**METALS (mg/L)**																												
65	58	Arsenic (7060)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
66	59	Chromium (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
67	60	Copper (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
68	61	Lead (7421)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
69	62	Nickel (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
70	63	Zinc (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
71	64																													
72	65	**MAJOR IONS AND CONVENTIONALS**																												
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ
1							
2							
3		LW17D		LW17D		LW17D	
4		0402105-06		0408044-08		0411051-08	
5		2/20/04		8/06/04		11/9/04	
63	**PRIORITY POLLUTANT**						
64	**METALS (mg/L)**						
65	Arsenic (7060)	NA		NA		NA	
66	Chromium (6010)	NA		NA		NA	
67	Copper (6010)	NA		NA		NA	
68	Lead (7421)	NA		NA		NA	
69	Nickel (6010)	NA		NA		NA	
70	Zinc (6010)	NA		NA		NA	
71							
72	**MAJOR IONS AND CONVENTIONALS**						
73	Calcium (mg/L) (6010)	NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA	
81	Chloride (mg/L) (EPA 325.2)	NA		NA		NA	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA	
86							

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D	
4			CB85A		CL03R		CT67L		DE87C		DM30P		DW48H		ED34B		EN00J		ER93N		EZ03H		FF88H		FL66F		FU45S		FY82G	
5			8/31/00		11/8/00		2/14/01		6/5/01		8/13/01		11/29/01		2/28/02		6/27/02		08/27/02		11/12/02		2/13/03		5/9/03		8/28/03		10/23/03	
87	80	**FIELD PARAMETERS**																												
88	81	pH (avg)	6.14		5.95		6.15		6.53		6.67		6.44		6.49		6.68		6.41		6.64		6.9		6.75		6.74		6.47	
89	82	Temperature (° C) (avg)	13.8		13.5		14.4		14.0		15.3		14		13.7		14.2		16.1		13.7		15.2		13.8		17.4		15.8	
90	83	Conductivity (um/hos)	305		79		440		488		544		529		62		196		399		457		401		349		431		434	
91	84	Dissolved oxygen (mg/L) (avg)	2.10		1.21		0.47		2.27		1.69		3.81		7.82		4.92		1.31		0.94		0		2.33		1.01		3.72	
92	85																													
93	86	**DIOXINS AND FURANS (ng/L)**																												
94	87	**Method 8290**																												
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																														
121																														
122																														

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ
1							
2							
3		LW17D		LW17D		LW17D	
4		0402105-06		0408044-08		0411051-08	
5		2/20/04		8/06/04		11/9/04	
87	**FIELD PARAMETERS**						
88	pH (avg)	6.44		6.17		6.59	
89	Temperature (° C) (avg)	15.7		14.6		14.4	
90	Conductivity (um/hos)	367		607		399	
91	Dissolved oxygen (mg/L) (avg)	23.19		3.04		1.72	
92							
93	**DIOXINS AND FURANS (ng/L)**						
94	**Method 8290**						
95	2,3,7,8-TCDF	NA		NA		NA	
96	Total TCDF	NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA	
98	Total TCDD	NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA	
101	Total PeCDF	NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA	
103	Total PeCDD	NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA	
108	Total HxCDF	NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA	
112	Total HxCDD	NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA	
115	Total HpCDF	NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA	
117	Total HpCDD	NA		NA		NA	
118	OCDF	NA		NA		NA	
119	OCDD	NA		NA		NA	
120							
121							
122							

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D		LW17D	
4			CB85A		CL03R		CT67L		DE87C		DM30P		DW48H		ED34B		EN00J		ER93N		EZ03H		FF88H		FL66F		FU45S		FY82G	
5			8/31/00		11/8/00		2/14/01		6/5/01		8/13/01		11/29/01		2/28/02		6/27/02		08/27/02		11/12/02		2/13/03		5/9/03		8/28/03		10/23/03	
6																														
123		**PAHs (µg/L)**																												
124		**EPA Method SW8270 SIM**																												
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ
1							
2							
3		LW17D		LW17D		LW17D	
4		0402105-06		0408044-08		0411051-08	
5		2/20/04		8/06/04		11/9/04	
123	**PAHs (µg/L)**						
124	**EPA Method SW8270 SIM**						
125	Naphthalene	NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA	
127	Acenaphthylene	NA		NA		NA	
128	Acenaphthene	NA		NA		NA	
129	Fluorene	NA		NA		NA	
130	Anthracene	NA		NA		NA	
131	Dibenzofuran	NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D	
4			CB85B		CL03S		CT67M		DE87D		DM30O		DW48G		ED34C		EN00I		ER93O		EZ03G		FF76D		FL66G		FU45Q		FY82F	
5			8/31/00		11/9/00		2/14/01		6/5/01		8/13/01		11/29/01		2/28/02		6/27/02		08/27/02		11/12/02		2/12/03		5/9/03		8/28/03		10/23/03	
6																														
7	1	**CHLORINATED PHENOLS (µg/L)**																												
8	2	**EPA Method SW8040**																												
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	**0.26**		**0.44**		0.25	U	0.3	U	0.25	U	0.25	U	0.25	U	**0.58**	J	**0.58**	
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16	10																													
17	11	**SEMIVOLATILES (µg/L)**																												
18	12	**EPA Method SW8270**																												
19	13	Phenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
20	14	4-Methylphenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
21	15	Isophorone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
22	16	2,4-Dimethylphenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
23	17	Benzoic Acid	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
24	18	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
25	19	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
26	20	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
27	21	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
28	22	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
29	23	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
30	24	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
31	25	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
33	27																													
34	28	**VOLATILES (µg/L)**																												
35	29	**EPA Method SW8260**																												
36	30	Acetone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
37	31	Carbon Disulfide	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
38	32	2-Butanone	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
39	33	Benzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
40	34	Bromoform	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
41	35	Toluene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
42	36	Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
43	37	Styrene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
44	38	m,p-Xylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
45	39	o-Xylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
46	40	1,3,5-Trimethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
47	41	1,2,4-Trimethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
48	42	Isopropylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
49	43	n-Propylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
50	44	tert-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
51	45	sec-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
52	46	4-Isopropyltoluene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
53	47	n-Butylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
54	48	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																													
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
58	51	**Method OR-DEQ**																												
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																													

BZTO104(e)022565

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ
1							
2							
3		LW18D		LW18D		LW18D	
4		0402105-07		0408044-04		0411051-05	
5		2/20/04		8/06/04		11/9/04	
6							
7	**CHLORINATED PHENOLS (µg/L)**						
8	**EPA Method SW8040**						
9	Pentachlorophenol	0.488	U	0.5	U	NA	
10	2,4,6-Trichlorophenol	NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA	
16							
17	**SEMIVOLATILES (µg/L)**						
18	**EPA Method SW8270**						
19	Phenol	NA		NA		NA	
20	4-Methylphenol	NA		NA		NA	
21	Isophorone	NA		NA		NA	
22	2,4-Dimethylphenol	NA		NA		NA	
23	Benzoic Acid	NA		NA		NA	
24	Naphthalene	NA		NA		NA	
25	2-Methylnaphthalene	NA		NA		NA	
26	2,4,6-Trichlorophenol	NA		NA		NA	
27	2,4,5-Trichlorophenol	NA		NA		NA	
28	Acenaphthene	NA		NA		NA	
29	Dibenzofuran	NA		NA		NA	
30	Fluorene	NA		NA		NA	
31	Pentachlorophenol	NA		NA		0.5	U
32	bis(2-Ethylhexyl)phthalate	NA		NA		NA	
33							
34	**VOLATILES (µg/L)**						
35	**EPA Method SW8260**						
36	Acetone	NA		NA		NA	
37	Carbon Disulfide	NA		NA		NA	
38	2-Butanone	NA		NA		NA	
39	Benzene	NA		NA		NA	
40	Bromoform	NA		NA		NA	
41	Toluene	NA		NA		NA	
42	Ethylbenzene	NA		NA		NA	
43	Styrene	NA		NA		NA	
44	m,p-Xylene	NA		NA		NA	
45	o-Xylene	NA		NA		NA	
46	1,3,5-Trimethylbenzene	NA		NA		NA	
47	1,2,4-Trimethylbenzene	NA		NA		NA	
48	Isopropylbenzene	NA		NA		NA	
49	n-Propylbenzene	NA		NA		NA	
50	tert-Butylbenzene	NA		NA		NA	
51	sec-Butylbenzene	NA		NA		NA	
52	4-Isopropyltoluene	NA		NA		NA	
53	n-Butylbenzene	NA		NA		NA	
54	Naphthalene	NA		NA		NA	
55	Methyl tert-butyl ether	NA		NA		NA	
56							
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**						
58	**Method OR-DEQ**						
59	**TPH-Diesel**	NA		NA		**2.32**	
60	**TPH-D Motor Oil**	NA		NA		0.491	U
61	**TPH-Gasoline**	NA		NA		**1.79**	
62							

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D	
4			CB85B		CL03S		CT67M		DE87D		DM30O		DW48G		ED34C		EN00I		ER93O		EZ03G		FF76D		FL66G		FU45Q		FY82F	
5			8/31/00		11/9/00		2/14/01		6/5/01		8/13/01		11/29/01		2/28/02		6/27/02		08/27/02		11/12/02		2/12/03		5/9/03		8/28/03		10/23/03	
63	56	**PRIORITY POLLUTANT**																												
64	57	**METALS (mg/L)**																												
65	58	Arsenic (7060)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
66	59	Chromium (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
67	60	Copper (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
68	61	Lead (7421)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
69	62	Nickel (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
70	63	Zinc (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
71	64																													
72	65	**MAJOR IONS AND CONVENTIONALS**																												
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ
1							
2							
3		LW18D		LW18D		LW18D	
4		0402105-07		0408044-04		0411051-05	
5		2/20/04		8/06/04		11/9/04	
63	**PRIORITY POLLUTANT**						
64	**METALS (mg/L)**						
65	Arsenic (7060)	NA		NA		NA	
66	Chromium (6010)	NA		NA		NA	
67	Copper (6010)	NA		NA		NA	
68	Lead (7421)	NA		NA		NA	
69	Nickel (6010)	NA		NA		NA	
70	Zinc (6010)	NA		NA		NA	
71							
72	**MAJOR IONS AND CONVENTIONALS**						
73	Calcium (mg/L) (6010)	NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA	
81	Chloride (mg/L) (EPA 325.2)	NA		NA		NA	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA	
86							

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D	
4			CB85B		CL03S		CT67M		DE87D		DM30O		DW48G		ED34C		EN00I		ER93O		EZ03G		FF76D		FL66G		FU45Q		FY82F	
5			8/31/00		11/9/00		2/14/01		6/5/01		8/13/01		11/29/01		2/28/02		6/27/02		08/27/02		11/12/02		2/12/03		5/9/03		8/28/03		10/23/03	
87	80	**FIELD PARAMETERS**																												
88	81	pH (avg)	6.48		6.12		6.08		6.38		6.60		6.44		6.26		6.45		6.64		6.57		6.83		6.62		6.79		6.53	
89	82	Temperature (° C) (avg)	14.1		12.8		13.9		14.7		15.2		13.8		14.5		15.5		16.0		14.6		14.4		15.1		18.8		17.9	
90	83	Conductivity (um/hos)	338		265		523		486		623		435		422		393		455		511		544		315		379		425	
91	84	Dissolved oxygen (mg/L) (avg)	2.14		1.25		0.37		0.69		1.82		3.27		7.60		4.42		0.82		0.69		0.88		1.78		0.98		4.38	
92	85																													
93	86	**DIOXINS AND FURANS (ng/L)**																												
94	87	**Method 8290**																												
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																														
121																														
122																														

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ
1							
2							
3		LW18D		LW18D		LW18D	
4		0402105-07		0408044-04		0411051-05	
5		2/20/04		8/06/04		11/9/04	
87	**FIELD PARAMETERS**						
88	pH (avg)	6.42		6.05		6.56	
89	Temperature (° C) (avg)	15.7		15.2		15	
90	Conductivity (um/hos)	206		487		369	
91	Dissolved oxygen (mg/L) (avg)	2.29		4.09		1.6	
92							
93	**DIOXINS AND FURANS (ng/L)**						
94	**Method 8290**						
95	2,3,7,8-TCDF	NA		NA		NA	
96	Total TCDF	NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA	
98	Total TCDD	NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA	
101	Total PeCDF	NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA	
103	Total PeCDD	NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA	
108	Total HxCDF	NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA	
112	Total HxCDD	NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA	
115	Total HpCDF	NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA	
117	Total HpCDD	NA		NA		NA	
118	OCDF	NA		NA		NA	
119	OCDD	NA		NA		NA	
120							
121							
122							

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D		LW18D	
4			CB85B		CL03S		CT67M		DE87D		DM30O		DW48G		ED34C		EN00I		ER93O		EZ03G		FF76D		FL66G		FU45Q		FY82F	
5			8/31/00		11/9/00		2/14/01		6/5/01		8/13/01		11/29/01		2/28/02		6/27/02		08/27/02		11/12/02		2/12/03		5/9/03		8/28/03		10/23/03	
6																														
123		**PAHs (µg/L)**																												
124		**EPA Method SW8270 SIM**																												
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ
1							
2							
3		LW18D		LW18D		LW18D	
4		0402105-07		0408044-04		0411051-05	
5		2/20/04		8/06/04		11/9/04	
123	**PAHs (µg/L)**						
124	**EPA Method SW8270 SIM**						
125	Naphthalene	NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA	
127	Acenaphthylene	NA		NA		NA	
128	Acenaphthene	NA		NA		NA	
129	Fluorene	NA		NA		NA	
130	Anthracene	NA		NA		NA	
131	Dibenzofuran	NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW20D		LW20D		LW20D		LW20D		LW20D	
4			FZ04N		0402115-03		0406050-10		0408056-10		0411059-03	
5			10/28/03		2/24/04		6/8/04		8/09/04		11/10/04	
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		4.75	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2	U	2.05	U	2.08	U	2.13	U	1.9	U
20	14	4-Methylphenol	1	U	10.2	U	10.4	U	10.6	U	9.5	U
21	15	Isophorone	1	U	1.02	U	1.04	U	1.06	U	0.95	U
22	16	2,4-Dimethylphenol	3	U	3.07	U	3.12	U	3.19	U	2.85	U
23	17	Benzoic Acid	10	U	20.5	U	20.8	U	21.3	U	19	U
24	18	Naphthalene	1	U	1.02	U	1.04	U	1.06	U	0.95	U
25	19	2-Methylnaphthalene	1	U	1.02	U	1.04	U	1.06	U	0.95	U
26	20	2,4,6-Trichlorophenol	5	U	5.12	U	5.19	U	5.31	U	4.75	U
27	21	2,4,5-Trichlorophenol	5	U	5.12	U	5.19	U	5.31	U	4.75	U
28	22	Acenaphthene	1	U	1.02	U	1.04	U	1.06	U	0.95	U
29	23	Dibenzofuran	1	U	1.02	U	1.04	U	1.06	U	0.95	U
30	24	Fluorene	1	U	1.02	U	1.04	U	1.06	U	0.95	U
31	25	Pentachlorophenol	5	U	5.12	U	5.19	U	5.31	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	**3.9**		1.02	U	1.04	U	**1.86**		0.95	U
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	**6**	M	50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U
39	33	Benzene	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	1	U	1	U	1	U	1	U	1	U
49	43	n-Propylbenzene	1	U	1	U	1	U	1	U	1	U
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	1	U	1	U	1	U	1	U	1	U
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	1	U	1	U	1	U	1	U	1	U
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U
55		Methyl tert-butyl ether	**1.5**		1	U	1	U	1	U	1	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**0.4**		**0.369**		**0.573**		**0.737**		**0.552**	
60	53	**TPH-D Motor Oil**	0.5	U	0.492	U	0.504	U	0.506	U	**0.665**	
61	54	**TPH-Gasoline**	0.25	U	0.1	U	0.1	U	**0.229**		0.1	U
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW20D		LW20D		LW20D		LW20D		LW20D	
4			FZ04N		0402115-03		0406050-10		0408056-10		0411059-03	
5			10/28/03		2/24/04		6/8/04		8/09/04		11/10/04	
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.021**		**0.029**		**0.027**		**0.0286**		**0.0297**	
66	59	Chromium (6010)	0.005	U	**0.0206**		**0.0199**		**0.0271**		**0.022**	
67	60	Copper (6010)	**0.004**		0.01	U	0.01	U	**0.0957**		**0.0113**	
68	61	Lead (7421)	0.001	U	**0.0020**		**0.0014**		**0.00305**		**0.00188**	
69	62	Nickel (6010)	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	**0.015**		**0.0113**		**0.0167**		**0.0674**		**0.0238**	
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**220**		**244**		**222**		**260**		**248**	J
81	74	Chloride (mg/L) (EPA 325.2)	**5.6**		**2.77**		**2.8**		**3.34**		**3.68**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW20D		LW20D		LW20D		LW20D		LW20D	
4			FZ04N		0402115-03		0406050-10		0408056-10		0411059-03	
5			10/28/03		2/24/04		6/8/04		8/09/04		11/10/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.62		6.74		6.82		6.23		7.02	
89	82	Temperature (° C) (avg)	15.8		14.1		14.8		15.7		14.2	
90	83	Conductivity (um/hos)	347		283		264		590		325	
91	84	Dissolved oxygen (mg/L) (avg)	2.04		2.67		1.19		2.23		1.81	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW20D		LW20D		LW20D		LW20D		LW20D	
4			FZ04N		0402115-03		0406050-10		0408056-10		0411059-03	
5			10/28/03		2/24/04		6/8/04		8/09/04		11/10/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.1	U	0.0557	U	**0.06**		**0.1**		0.0476	U
126		2-Methylnaphthalene	0.1	U	NA		NA		NA		NA	
127		Acenaphthylene	0.1	U	0.0557	U	0.05	U	0.0502	U	0.0476	U
128		Acenaphthene	0.1	U	0.0557	U	0.05	U	**0.11**		0.0476	U
129		Fluorene	0.1	U	**0.078**		**0.17**		**0.0602**		0.0476	U
130		Anthracene	0.1	U	0.0557	U	0.05	U	0.0502	U	0.0476	U
131		Dibenzofuran	0.1	U	NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW22D		LW22D		LW22D		LW22D		LW22D	
4			FZ04A		0402115-10		0406040-03		0408056-03		0411059-04	
5			10/27/03		2/24/04		6/7/04		8/09/04		11/10/04	
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		4.9	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	**4.1**		2.05	U	1.9	U	2.02	U	1.96	U
20	14	4-Methylphenol	1.4	U	10.3	U	9.51	U	10.1	U	9.79	U
21	15	Isophorone	1.4	U	1.03	U	0.951	U	1.01	U	0.979	U
22	16	2,4-Dimethylphenol	4.2	U	3.08	U	2.85	U	3.03	U	2.94	U
23	17	Benzoic Acid	14	U	20.5	U	19	U	20.2	U	19.6	U
24	18	Naphthalene	1.4	U	1.03	U	0.951	U	1.01	U	0.979	U
25	19	2-Methylnaphthalene	1.4	U	1.03	U	0.951	U	1.01	U	0.979	U
26	20	2,4,6-Trichlorophenol	7	U	5.13	U	4.76	U	5.05	U	4.9	U
27	21	2,4,5-Trichlorophenol	7	U	5.13	U	4.76	U	5.05	U	4.9	U
28	22	Acenaphthene	1.4	U	1.03	U	0.951	U	1.01	U	0.979	U
29	23	Dibenzofuran	1.4	U	1.03	U	0.951	U	1.01	U	0.979	U
30	24	Fluorene	1.4	U	1.03	U	0.951	U	1.01	U	0.979	U
31	25	Pentachlorophenol	7	U	5.13	U	4.76	U	5.05	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	1.4	U	1.03	U	0.951	U	1.01	U	0.979	U
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	**5.2**	M	50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U
39	33	Benzene	**2.9**		0.4	U	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	**1.6**		1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	**1.6**		2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	**14**		1	U	**13.8**		1	U	**1.38**	
49	43	n-Propylbenzene	**12**		1	U	**5.59**		1	U	1	U
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	**1.5**		1	U	**1.26**		1	U	1	U
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	1	U	1	U	1	U	1	U	1	U
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U
55		Methyl tert-butyl ether	**1.9**	M	1	U	1	U	1	U	**2.26**	
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**2**		**0.429**		**3.43**		**1.75**		**1.61**	
60	53	**TPH-D Motor Oil**	0.5	U	0.497	U	0.499	U	0.498	U	**1.29**	
61	54	**TPH-Gasoline**	**0.54**		0.1	U	**0.239**		0.1	U	0.1	U
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW22D		LW22D		LW22D		LW22D		LW22D	
4			FZ04A		0402115-10		0406040-03		0408056-03		0411059-04	
5			10/27/03		2/24/04		6/7/04		8/09/04		11/10/04	
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.023**		**0.039**		**0.026**		**0.00774**		**0.0417**	
66	59	Chromium (6010)	**0.15**		**0.0195**		**0.0235**		**0.0194**		0.005	U
67	60	Copper (6010)	**0.199**		**0.0114**		0.01	U	0.01	U	0.01	U
68	61	Lead (7421)	**0.056**		**0.0097**		**0.0037**		**0.00121**		**0.0028**	
69	62	Nickel (6010)	**0.14**		0.005	U	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	**0.4**		**0.0361**		**0.0175**		**0.0123**		**0.0176**	
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**280**		**263**		**308**		**243**		**247**	J
81	74	Chloride (mg/L) (EPA 325.2)	**1.7**		**1.94**		**1.55**		**1.79**		**1.72**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW22D		LW22D		LW22D		LW22D		LW22D	
4			FZ04A		0402115-10		0406040-03		0408056-03		0411059-04	
5			10/27/03		2/24/04		6/7/04		8/09/04		11/10/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.65		6.53		5.19		5.61		6.56	
89	82	Temperature (° C) (avg)	17.2		14.5		14.6		15.4		14.5	
90	83	Conductivity (um/hos)	498		295		377		639		341	
91	84	Dissolved oxygen (mg/L) (avg)	4.51		2.82		3.19		2.34		2.57	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW22D		LW22D		LW22D		LW22D		LW22D	
4			FZ04A		0402115-10		0406040-03		0408056-03		0411059-04	
5			10/27/03		2/24/04		6/7/04		8/09/04		11/10/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.14	U	0.0523	U	**0.106**		0.052	U	0.052	U
126		2-Methylnaphthalene	0.14	U	NA		NA		NA		NA	
127		Acenaphthylene	0.14	U	0.0523	U	0.0482	U	0.052	U	0.052	U
128		Acenaphthene	1		0.0523	U	0.0482	U	0.052	U	0.052	U
129		Fluorene	0.35		0.0523	U	0.0482	U	**0.166**		0.052	U
130		Anthracene	0.14	U	0.0523	U	0.0482	U	0.052	U	0.052	U
131		Dibenzofuran	0.14	U	NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW23D		LW23D		LW23D		LW23D		LW23D	
4			FZ04B		0402115-11		0406040-04		0408056-04		0411065-01	
5			10/27/03		2/24/04		6/7/04		8/09/04		11/11/04	
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		5.12	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2	U	2.26	U	1.94	U	2.09	U	2.05	U
20	14	4-Methylphenol	1	U	11.3	U	9.68	U	10.5	U	10.2	U
21	15	Isophorone	1	U	1.13	U	0.968	U	1.05	U	1.02	U
22	16	2,4-Dimethylphenol	3	U	3.39	U	2.9	U	3.14	U	3.07	U
23	17	Benzoic Acid	10	U	22.6	U	19.4	U	20.9	U	20.5	U
24	18	Naphthalene	1	U	1.13	U	0.968	U	1.05	U	1.02	U
25	19	2-Methylnaphthalene	1	U	1.13	U	0.968	U	1.05	U	1.02	U
26	20	2,4,6-Trichlorophenol	5	U	5.66	U	4.84	U	5.24	U	5.12	U
27	21	2,4,5-Trichlorophenol	5	U	5.66	U	4.84	U	5.24	U	5.12	U
28	22	Acenaphthene	1	U	1.13	U	0.968	U	1.05	U	1.02	U
29	23	Dibenzofuran	1	U	1.13	U	0.968	U	1.05	U	1.02	U
30	24	Fluorene	1	U	1.13	U	0.968	U	1.05	U	1.02	U
31	25	Pentachlorophenol	5	U	5.66	U	4.84	U	5.24	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	**6.8**		1.13	U	0.968	U	1.05	U	**3.52**	
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	**19**		50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U
39	33	Benzene	**40**		**22.9**		**132**		**26.1**		**12.1**	
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	**1.2**		1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	**1.2**		2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	**1.22**	
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	**16**		**8.51**		**13.7**		**11.5**		**14.5**	
49	43	n-Propylbenzene	**8.6**		**6.71**		**6.9**		**5.51**		**4.79**	
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	**3.3**		**1.12**		**2.86**		**1.6**		**2.08**	
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	**1.6**		1	U	**1.4**		1	U	**1.45**	
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U
55		Methyl tert-butyl ether	**33**		**17.4**		**51.2**		**3.17**		**7.93**	
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**2.9**		**1.53**		**4.44**		**3.21**		**2.94**	
60	53	**TPH-D Motor Oil**	0.5	U	**0.648**		0.527	U	0.5	U	**1.2**	
61	54	**TPH-Gasoline**	**0.88**		**0.67**		**0.732**		**0.562**		**1.23**	
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW23D		LW23D		LW23D		LW23D		LW23D	
4			FZ04B		0402115-11		0406040-04		0408056-04		0411065-01	
5			10/27/03		2/24/04		6/7/04		8/09/04		11/11/04	
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.021**		**0.042**		**0.044**		**0.0435**		**0.0574**	
66	59	Chromium (6010)	**0.135**		**0.0226**		**0.0248**		**0.0224**		**0.037**	
67	60	Copper (6010)	**0.201**		**0.0197**		0.01	U	**0.0372**		**0.0387**	
68	61	Lead (7421)	**0.068**		**0.0085**		**0.0047**		**0.00792**		**0.0169**	
69	62	Nickel (6010)	**0.11**		0.005	U	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	**0.348**		**0.0333**		**0.024**		**0.0431**		**0.0754**	
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**330**		**349**		**456**		**466**		**371**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.4**		**2.54**		**2.54**		**2.8**		**2.59**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW23D		LW23D		LW23D		LW23D		LW23D	
4			FZ04B		0402115-11		0406040-04		0408056-04		0411065-01	
5			10/27/03		2/24/04		6/7/04		8/09/04		11/11/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.78		6.85		5.51		6.13		6.86	
89	82	Temperature (° C) (avg)	15.8		13.9		14.5		13.8		14.5	
90	83	Conductivity (um/hos)	547		474		547		998		579	
91	84	Dissolved oxygen (mg/L) (avg)	0.35		1.11		3.01		2.46		0.68	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW23D		LW23D		LW23D		LW23D		LW23D	
4			FZ04B		0402115-11		0406040-04		0408056-04		0411065-01	
5			10/27/03		2/24/04		6/7/04		8/09/04		11/11/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.1	U	**0.09**		**0.517**		**0.409**		**0.526**	
126		2-Methylnaphthalene	0.1	U	NA		NA		NA		NA	
127		Acenaphthylene	0.1	U	0.05	U	**0.0683**		**0.123**		**0.115**	
128		Acenaphthene	0.61		**0.16**		**0.429**		**0.86**		**0.698**	
129		Fluorene	0.31		**0.06**		**0.0585**		**0.246**		**0.277**	
130		Anthracene	0.11		0.05	U	0.0488	U	0.0512	U	0.0478	U
131		Dibenzofuran	0.1	U	NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW24D		LW24D		LW24D		LW24D		LW24D	
4			FZ04U		0402115-07		0406040-07		0408056-06		0411065-02	
5			10/28/03		2/24/04		6/7/04		8/09/04		11/11/04	
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		4.78	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2	U	2.14	U	1.9	U	2.08	U	1.91	U
20	14	4-Methylphenol	1	U	10.7	U	9.51	U	10.4	U	9.55	U
21	15	Isophorone	1	U	1.07	U	0.951	U	1.04	U	0.955	U
22	16	2,4-Dimethylphenol	3	U	3.22	U	2.85	U	3.12	U	2.87	U
23	17	Benzoic Acid	10	U	21.4	U	19	U	20.8	U	19.1	U
24	18	Naphthalene	1	U	1.07	U	0.951	U	1.04	U	0.955	U
25	19	2-Methylnaphthalene	1	U	1.07	U	0.951	U	1.04	U	0.955	U
26	20	2,4,6-Trichlorophenol	5	U	5.36	U	4.75	U	5.21	U	4.78	U
27	21	2,4,5-Trichlorophenol	5	U	5.36	U	4.75	U	5.21	U	4.78	U
28	22	Acenaphthene	1	U	**1.37**		**1.27**		**1.65**		**1.43**	
29	23	Dibenzofuran	1	U	1.07	U	0.951	U	1.04	U	0.955	U
30	24	Fluorene	1	U	**3.55**		**3.06**		**4.04**		**3.47**	
31	25	Pentachlorophenol	5	U	5.36	U	4.75	U	5.21	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	**5.6**		1.07	U	**1.07**		**1.91**		**2.93**	
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	5	U	50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U
39	33	Benzene	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	**1.31**	
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	**2.2**		**7.97**		**8.96**		**10.4**		**10.6**	
49	43	n-Propylbenzene	1	U	**12.8**		**11.5**		**13**		**10.3**	
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	**1.3**		**4.81**		**4.84**		**4.22**		**4.08**	
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	1	U	**2.85**		**3.51**		**2.63**		**3.3**	
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U
55		Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**2.5**		**5.43**		**6.84**		**6.57**		**3.87**	
60	53	**TPH-D Motor Oil**	0.5	U	**1.15**		0.541	U	0.575	U	**1.24**	
61	54	**TPH-Gasoline**	**0.92**		**1.5**		**1.23**		**0.948**		**1.64**	
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW24D		LW24D		LW24D		LW24D		LW24D	
4			FZ04U		0402115-07		0406040-07		0408056-06		0411065-02	
5			10/28/03		2/24/04		6/7/04		8/09/04		11/11/04	
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.009**		**0.066**		**0.058**		**0.043**		**0.0525**	
66	59	Chromium (6010)	**0.125**		**0.0423**		**0.0421**		**0.0279**		**0.0422**	
67	60	Copper (6010)	**0.163**		**0.0474**		**0.0256**		**0.0125**		**0.0424**	
68	61	Lead (7421)	**0.058**		**0.0182**		**0.0126**		**0.00423**		**0.0256**	
69	62	Nickel (6010)	**0.11**		**0.0096**		**0.0069**		**0.0088**		**0.0237**	
70	63	Zinc (6010)	**0.327**		**0.102**		**0.0779**		**0.0905**		**0.124**	
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**340**		**277**		**350**		**268**		**347**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.2**		**2.3**		**1.89**		**3.24**		**2.8**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW24D		LW24D		LW24D		LW24D		LW24D	
4			FZ04U		0402115-07		0406040-07		0408056-06		0411065-02	
5			10/28/03		2/24/04		6/7/04		8/09/04		11/11/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.87		6.69		5.43		6.02		6.86	
89	82	Temperature (° C) (avg)	16.9		14.8		15.5		15.9		15	
90	83	Conductivity (um/hos)	494		440		426		793		457	
91	84	Dissolved oxygen (mg/L) (avg)	0.57		1.08		1.6		2.57		0.86	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW24D		LW24D		LW24D		LW24D		LW24D	
4			FZ04U		0402115-07		0406040-07		0408056-06		0411065-02	
5			10/28/03		2/24/04		6/7/04		8/09/04		11/11/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.1	U	**0.749**		**0.87**		**0.409**		**0.829**	
126		2-Methylnaphthalene	0.1	U	NA		NA		NA		NA	
127		Acenaphthylene	0.1	U	**0.375**		**0.303**		**0.517**		**0.357**	
128		Acenaphthene	0.91		**1.56**		**1.21**		**1.39**		**1.45**	
129		Fluorene	0.7		**3.96**		**2.81**		**2.65**		**3.73**	
130		Anthracene	0.43		**0.135**		**0.162**		**0.146**		**0.154**	
131		Dibenzofuran	0.1	U	NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW25D		LW25D		LW25D		LW25D		LW25D	
4			FZ04V		0402115-08		0406040-08		0408056-07		0411065-03	
5			10/28/03		2/24/04		6/7/04		8/09/04		11/11/04	
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		4.92	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2.3	U	2.13	U	2.04	U	1.99	U	1.97	U
20	14	4-Methylphenol	1.2	U	10.7	U	10.2	U	9.96	U	9.84	U
21	15	Isophorone	1.2	U	1.07	U	1.02	U	0.996	U	0.984	U
22	16	2,4-Dimethylphenol	3.5	U	3.2	U	3.06	U	2.99	U	2.95	U
23	17	Benzoic Acid	12	U	21.3	U	20.4	U	19.9	U	19.7	U
24	18	Naphthalene	1.2	U	1.07	U	1.02	U	0.996	U	0.984	U
25	19	2-Methylnaphthalene	1.2	U	1.07	U	1.02	U	0.996	U	0.984	U
26	20	2,4,6-Trichlorophenol	5.8	U	5.34	U	5.11	U	4.98	U	4.92	U
27	21	2,4,5-Trichlorophenol	5.8	U	5.34	U	5.11	U	4.98	U	4.92	U
28	22	Acenaphthene	1.2	U	1.07	U	1.02	U	**1.93**		**1.4**	
29	23	Dibenzofuran	1.2	U	1.07	U	1.02	U	0.996	U	0.984	U
30	24	Fluorene	1.2	U	1.29	U	1.02	U	**4.12**		**2.98**	
31	25	Pentachlorophenol	5.8	U	5.34	U	5.11	U	4.98	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	1.2	U	1.07	U	**3.53**		**2.95**		**5.88**	
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	5	U	50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U
39	33	Benzene	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	**1.6**		2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	**1.36**	
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	**5.6**		**5.01**		**1.29**		**17.8**		**4.09**	
49	43	n-Propylbenzene	**2**		1	U	1	U	**5.78**		1	U
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	**1.2**		**2.43**		**1.4**		**4.59**		**1.77**	
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	1	U	1	U	1	U	**1.87**		1	U
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U
55		Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**1.3**		**6.67**		**2.31**		**3.17**		**2.54**	
60	53	**TPH-D Motor Oil**	0.5	U	**1.32**		0.494	U	0.502	U	**1.04**	
61	54	**TPH-Gasoline**	**0.43**		**0.88**		**0.409**	J	**0.98**		**1.38**	
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW25D		LW25D		LW25D		LW25D		LW25D	
4			FZ04V		0402115-08		0406040-08		0408056-07		0411065-03	
5			10/28/03		2/24/04		6/7/04		8/09/04		11/11/04	
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.032**		**0.026**		**0.028**		**0.0425**		**0.064**	
66	59	Chromium (6010)	**0.31**		**0.0517**		**0.0345**		**0.0161**		**0.0862**	
67	60	Copper (6010)	**0.373**		**0.0441**		**0.0179**		0.01	U	**0.0865**	
68	61	Lead (7421)	**0.15**		**0.0233**		**0.0108**		**0.00816**		**0.0658**	
69	62	Nickel (6010)	**0.28**		**0.0158**		**0.0084**		**0.0065**		**0.0603**	
70	63	Zinc (6010)	**0.83**		**0.113**		**0.0647**		**0.0831**		**0.269**	
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**210**		**250**		**232**		**152**		**253**	
81	74	Chloride (mg/L) (EPA 325.2)	**12**		**1.96**		**1.51**		**2.13**		**2.26**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW25D		LW25D		LW25D		LW25D		LW25D	
4			FZ04V		0402115-08		0406040-08		0408056-07		0411065-03	
5			10/28/03		2/24/04		6/7/04		8/09/04		11/11/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.55		6.58		5.05		5.93		6.8	
89	82	Temperature (° C) (avg)	18.1		14.8		16		16.3		15.2	
90	83	Conductivity (um/hos)	290		381		232		456		384	
91	84	Dissolved oxygen (mg/L) (avg)	2.68		1.36		3.2		2.36		0.56	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW25D		LW25D		LW25D		LW25D		LW25D	
4			FZ04V		0402115-08		0406040-08		0408056-07		0411065-03	
5			10/28/03		2/24/04		6/7/04		8/09/04		11/11/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.12	U	**0.352**		**0.397**		**0.478**		**0.694**	
126		2-Methylnaphthalene	0.12	U	NA		NA		NA		NA	
127		Acenaphthylene	0.12	U	**0.0771**		0.0509	U	**0.211**		**0.262**	
128		Acenaphthene	0.45		**0.639**		**0.112**		**1.16**		**1.13**	
129		Fluorene	0.57		**0.738**		**0.285**		**1.98**		**2.57**	
130		Anthracene	0.12	U	**0.0771**		**0.214**		**0.289**		**0.231**	
131		Dibenzofuran	0.12	U	NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW26D		LW26D		LW26D		LW26D		LW26D	
4			FZ04T		0402115-05		0406040-06		0408066-01		0411059-05	
5			10/28/03		2/24/04		6/7/04		8/10/04		11/10/04	
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		4.87	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2.2	U	2.22	U	1.94	U	2	U	1.95	U
20	14	4-Methylphenol	1.1	U	11.1	U	9.72	U	10	U	9.75	U
21	15	Isophorone	1.1	U	1.11	U	0.972	U	1	U	0.975	U
22	16	2,4-Dimethylphenol	3.3	U	3.33	U	2.92	U	3.01	U	2.92	U
23	17	Benzoic Acid	11	U	22.2	U	19.4	U	20	U	19.5	U
24	18	Naphthalene	1.1	U	1.11	U	0.972	U	1	U	0.975	U
25	19	2-Methylnaphthalene	1.1	U	1.11	U	0.972	U	1	U	0.975	U
26	20	2,4,6-Trichlorophenol	5.5	U	5.56	U	4.86	U	5.01	U	4.87	U
27	21	2,4,5-Trichlorophenol	5.5	U	5.56	U	4.86	U	5.01	U	4.87	U
28	22	Acenaphthene	1.1	U	1.11	U	0.972	U	1	U	0.975	U
29	23	Dibenzofuran	1.1	U	1.11	U	0.972	U	1	U	0.975	U
30	24	Fluorene	1.1	U	1.11	U	0.972	U	1	U	0.975	U
31	25	Pentachlorophenol	5.5	U	5.56	U	4.86	U	5.01	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	1.1	U	1.11	U	0.972	U	**3.77**		0.975	U
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	**11**		50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U
39	33	Benzene	1	U	0.4	U	0.3	U	0.3	U	**0.4**	
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	1	U	1	U	1	U	1	U	**1**	
49	43	n-Propylbenzene	1	U	1	U	1	U	1	U	1	U
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	1	U	1	U	1	U	1	U	1	U
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	1	U	1	U	1	U	1	U	1	U
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U
55		Methyl tert-butyl ether	**1.2**		1	U	1	U	**2.38**		**3.32**	
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**1.1**		**1.74**		**4.07**		**1.37**		**2.18**	
60	53	**TPH-D Motor Oil**	0.5	U	**0.541**		0.491	U	0.497	U	**1.4**	
61	54	**TPH-Gasoline**	**0.35**		**0.27**		**0.129**		**0.202**	J	**0.211**	
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW26D		LW26D		LW26D		LW26D		LW26D	
4			FZ04T		0402115-05		0406040-06		0408066-01		0411059-05	
5			10/28/03		2/24/04		6/7/04		8/10/04		11/10/04	
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.007**		**0.010**		**0.006**		**0.0112**		**0.0108**	
66	59	Chromium (6010)	**0.012**		**0.0159**		**0.0185**		**0.0171**		**0.0212**	
67	60	Copper (6010)	**0.016**		0.01	U	0.01	U	**0.0812**		**0.0132**	
68	61	Lead (7421)	**0.006**		**0.0027**		**0.0021**		**0.0028**		**0.00353**	
69	62	Nickel (6010)	**0.01**		0.005	U	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	**0.036**		**0.0116**		**0.0161**		**0.0173**		**0.0276**	
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**300**		**349**		**356**		**294**		**331**	J
81	74	Chloride (mg/L) (EPA 325.2)	**18**		**2.84**		**2.6**		**2.97**		**2.93**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW26D		LW26D		LW26D		LW26D		LW26D	
4			FZ04T		0402115-05		0406040-06		0408066-01		0411059-05	
5			10/28/03		2/24/04		6/7/04		8/10/04		11/10/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.8		6.93		5.53		5.86		7.06	
89	82	Temperature (° C) (avg)	19.0		13		17.8		16.4		14	
90	83	Conductivity (um/hos)	509		388		397		704		442	
91	84	Dissolved oxygen (mg/L) (avg)	2.65		1.38		3.7		1.36		1.6	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW26D		LW26D		LW26D		LW26D		LW26D	
4			FZ04T		0402115-05		0406040-06		0408066-01		0411059-05	
5			10/28/03		2/24/04		6/7/04		8/10/04		11/10/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.11	U	**0.0843**		0.0482	U	0.0498	U	**0.0916**	
126		2-Methylnaphthalene	0.11	U	NA		NA		NA		NA	
127		Acenaphthylene	0.11	U	**0.116**		0.0482	U	0.0498	U	**0.0509**	
128		Acenaphthene	0.11	U	**0.0632**		0.0482	U	0.0498	U	**0.0509**	
129		Fluorene	0.11	U	**0.432**		0.0482	U	**0.129**		**0.204**	
130		Anthracene	0.11	U	0.0527	U	0.0482	U	0.0498	U	0.0509	U
131		Dibenzofuran	0.11	U	NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW27D		LW27D		LW27D		LW27D		LW27D	
4			FZ04S		0402115-06		0406040-05		0408056-11		0411059-06	
5			10/28/03		2/24/04		6/7/04		8/09/04		11/10/04	
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		4.84	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2.2	U	1.99	U	1.98	U	2.16	U	1.93	U
20	14	4-Methylphenol	1.1	U	9.93	U	9.89	U	10.8	U	9.67	U
21	15	Isophorone	1.1	U	0.993	U	0.989	U	1.08	U	0.967	U
22	16	2,4-Dimethylphenol	3.2	U	2.98	U	2.97	U	3.24	U	2.9	U
23	17	Benzoic Acid	11	U	19.9	U	19.8	U	21.6	U	19.3	U
24	18	Naphthalene	1.1	U	0.993	U	0.989	U	1.08	U	0.967	U
25	19	2-Methylnaphthalene	1.1	U	0.993	U	0.989	U	1.08	U	0.967	U
26	20	2,4,6-Trichlorophenol	5.4	U	4.97	U	4.95	U	5.39	U	4.84	U
27	21	2,4,5-Trichlorophenol	5.4	U	4.97	U	4.95	U	5.39	U	4.84	U
28	22	Acenaphthene	1.1	U	0.993	U	0.989	U	1.08	U	0.967	U
29	23	Dibenzofuran	1.1	U	0.993	U	0.989	U	1.08	U	0.967	U
30	24	Fluorene	1.1	U	0.993	U	0.989	U	1.08	U	0.967	U
31	25	Pentachlorophenol	5.4	U	4.97	U	4.95	U	5.39	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	1.1	U	0.993	U	0.989	U	1.08	U	0.967	U
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	**7.9**		50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U
39	33	Benzene	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	1	U	1	U	1	U	1	U	1	U
49	43	n-Propylbenzene	1	U	1	U	1	U	1	U	1	U
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	1	U	1	U	1	U	1	U	1	U
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	1	U	1	U	1	U	1	U	1	U
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U
55		Methyl tert-butyl ether	1	U	1	U	1	U	1	U	**3.02**	
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**0.54**		**0.598**		**2.43**		**1.25**		**0.969**	
60	53	**TPH-D Motor Oil**	0.5	U	0.497	U	0.557	U	0.539	U	**0.647**	
61	54	**TPH-Gasoline**	0.25	U	0.1	U	**0.24**		**0.336**		**0.188**	
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW27D		LW27D		LW27D		LW27D		LW27D	
4			FZ04S		0402115-06		0406040-05		0408056-11		0411059-06	
5			10/28/03		2/24/04		6/7/04		8/09/04		11/10/04	
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.006**		**0.006**		**0.007**		**0.00745**		**0.00534**	
66	59	Chromium (6010)	**0.009**		**0.0181**		**0.0203**		**0.0211**		**0.0177**	
67	60	Copper (6010)	**0.02**		0.01	U	0.01	U	**0.0157**		0.01	U
68	61	Lead (7421)	**0.014**		**0.0021**		**0.0006**		**0.0019**		**0.00136**	
69	62	Nickel (6010)	**0.01**		0.005	U	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	**0.047**		**0.0145**		0.01	U	**0.0528**		**0.0173**	
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**240**		**306**		**318**		**264**		**284**	J
81	74	Chloride (mg/L) (EPA 325.2)	**24**		**7.2**		**3.72**		**3.43**		**2.85**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW27D		LW27D		LW27D		LW27D		LW27D	
4			FZ04S		0402115-06		0406040-05		0408056-11		0411059-06	
5			10/28/03		2/24/04		6/7/04		8/09/04		11/10/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.84		6.73		5.53		6.16		7.06	
89	82	Temperature (° C) (avg)	15.0		13.8		14.5		15.3		14.2	
90	83	Conductivity (um/hos)	329		345		363		609		372	
91	84	Dissolved oxygen (mg/L) (avg)	1.07		1.34		1.56		1.5		1.57	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW27D		LW27D		LW27D		LW27D		LW27D	
4			FZ04S		0402115-06		0406040-05		0408056-11		0411059-06	
5			10/28/03		2/24/04		6/7/04		8/09/04		11/10/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.11	U	**0.0584**		**0.126**		**0.104**		**0.128**	
126		2-Methylnaphthalene	0.11	U	NA		NA		NA		NA	
127		Acenaphthylene	0.11	U	0.0584	U	0.0484	U	0.0522	U	0.0492	U
128		Acenaphthene	0.11	U	**0.0701**		**0.0871**		**0.104**		**0.0689**	
129		Fluorene	0.11	U	0.0584	U	0.0484	U	**0.146**		0.0492	U
130		Anthracene	0.11	U	0.0584	U	0.0484	U	0.0522	U	0.0492	U
131		Dibenzofuran	0.11	U	NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW29D		LW29D		LW29D		LW29D		LW29D	
4			FZ04D		0402080-07		0406050-07		0408006-07		0411047-03	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04	
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		5.05	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2.1	U	1.92	UJ	1.97	U	2.03	U	2.02	U
20	14	4-Methylphenol	1	U	9.61	UJ	9.87	U	10.1	U	10.1	U
21	15	Isophorone	1	U	0.961	UJ	0.987	U	1.01	U	1.01	U
22	16	2,4-Dimethylphenol	3.1	U	2.88	UJ	2.96	U	3.04	U	3.03	U
23	17	Benzoic Acid	10	U	19.2	UJ	19.7	U	20.3	U	20.2	U
24	18	Naphthalene	1	U	0.961	UJ	0.987	U	1.01	U	1.01	U
25	19	2-Methylnaphthalene	1	U	0.961	UJ	0.987	U	1.01	U	1.01	U
26	20	2,4,6-Trichlorophenol	5.2	U	4.8	UJ	4.94	U	5.07	U	5.05	U
27	21	2,4,5-Trichlorophenol	5.2	U	4.8	UJ	4.94	U	5.07	U	5.05	U
28	22	Acenaphthene	1	U	0.961	UJ	0.987	U	1.01	U	1.01	U
29	23	Dibenzofuran	1	U	0.961	UJ	0.987	U	1.01	U	1.01	U
30	24	Fluorene	1	U	0.961	UJ	0.987	U	1.01	U	1.01	U
31	25	Pentachlorophenol	5.2	U	4.8	UJ	4.94	U	5.07	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	1	U	2.13	UJ	0.987	U	**1.37**		**1.33**	
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	5	U	50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	**1.1**		2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U
39	33	Benzene	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	1	U	1	U	1	U	1	U	1	U
49	43	n-Propylbenzene	1	U	1	U	1	U	1	U	1	U
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	1	U	1	U	1	U	1	U	1	U
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	1	U	1	U	1	U	1	U	1	U
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U
55		Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	0.25	U	0.242	U	0.249	U	**0.306**		0.252	U
60	53	**TPH-D Motor Oil**	0.5	U	0.483	U	0.497	U	0.476	U	0.503	U
61	54	**TPH-Gasoline**	0.25	U	0.1	U	0.1	U	0.1	U	0.1	U
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW29D		LW29D		LW29D		LW29D		LW29D	
4			FZ04D		0402080-07		0406050-07		0408006-07		0411047-03	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04	
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.004**		**0.006**		**0.006**		**0.00694**		**0.00658**	
66	59	Chromium (6010)	**0.019**		**0.0137**		**0.0164**		**0.015**		**0.024**	
67	60	Copper (6010)	**0.019**		0.01	U	0.01	U	0.01	U	**0.0115**	
68	61	Lead (7421)	**0.006**		**0.0017**		**0.0013**		**0.000613**		**0.00274**	
69	62	Nickel (6010)	**0.02**		0.005	U	0.005	U	0.005	U	0.005	U
70	63	Zinc (6010)	**0.04**		**0.0336**		**0.0105**		0.01	U	**0.0216**	
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**370**		**391**		**432**		**362**		**462**	
81	74	Chloride (mg/L) (EPA 325.2)	**30**		**4.25**		**4.33**		**3.43**		**4.18**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW29D		LW29D		LW29D		LW29D		LW29D	
4			FZ04D		0402080-07		0406050-07		0408006-07		0411047-03	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.69		7.14		7.02		6.05		6.89	
89	82	Temperature (° C) (avg)	16.0		13		14.5		14.7		14.3	
90	83	Conductivity (um/hos)	569		529		474		726		511	
91	84	Dissolved oxygen (mg/L) (avg)	3.36		2.18		1.41		NM		0.94	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW29D		LW29D		LW29D		LW29D		LW29D	
4			FZ04D		0402080-07		0406050-07		0408006-07		0411047-03	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/8/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.1	U	0.0489	UJ	0.05	U	0.05	U	0.0495	U
126		2-Methylnaphthalene	0.1	U	NA		NA		NA		NA	
127		Acenaphthylene	0.1	U	0.0489	UJ	0.05	U	0.05	U	0.0495	U
128		Acenaphthene	0.1	U	0.0489	UJ	0.05	U	0.05	U	0.0495	U
129		Fluorene	0.1	U	0.0489	UJ	0.05	U	0.05	U	0.0495	U
130		Anthracene	0.1	U	0.0489	UJ	0.05	U	1.01	U	0.0495	U
131		Dibenzofuran	0.1	U	NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW30D		LW30D		LW30D		LW30D		LW30D	
4			FZ04F		0402085-02		0406050-09		0408020-05		0411047-05	
5			10/27/03		2/18/04		6/8/04		8/03/04		11/8/04	
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		4.99	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2.2	U	2.06	U	1.95	U	1.98	U	1.99	U
20	14	4-Methylphenol	1.1	U	10.3	U	9.76	U	9.92	U	9.97	U
21	15	Isophorone	1.1	U	1.03	U	0.976	U	0.992	U	0.997	U
22	16	2,4-Dimethylphenol	3.3	U	3.09	U	2.93	U	2.98	U	2.99	U
23	17	Benzoic Acid	11	U	20.6	U	19.5	U	19.8	U	19.9	U
24	18	Naphthalene	1.1	U	1.03	U	0.976	U	0.992	U	0.997	U
25	19	2-Methylnaphthalene	1.1	U	1.03	U	0.976	U	0.992	U	0.997	U
26	20	2,4,6-Trichlorophenol	5.6	U	5.15	U	4.88	U	4.96	U	4.99	U
27	21	2,4,5-Trichlorophenol	5.6	U	5.15	U	4.88	U	4.96	U	4.99	U
28	22	Acenaphthene	1.1	U	1.03	U	0.976	U	0.992	U	0.997	U
29	23	Dibenzofuran	1.1	U	1.03	U	0.976	U	0.992	U	0.997	U
30	24	Fluorene	1.1	U	1.03	U	0.976	U	0.992	U	0.997	U
31	25	Pentachlorophenol	5.6	U	5.15	U	4.88	U	4.96	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	1.1	U	1.03	U	0.976	U	**1.73**		**2.04**	
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	**5.1**		50	UJ	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	**2.11**	J	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	UJ	10	U	10	U	10	U
39	33	Benzene	1	U	0.4	UJ	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	UJ	1	U	1	U	1	U
41	35	Toluene	1	U	1	UJ	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	UJ	1	U	1	U	1	U
43	37	Styrene	1	U	1	UJ	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	2	UJ	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	UJ	1	U	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	UJ	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	UJ	1	U	1	U	1	U
48	42	Isopropylbenzene	1	U	1	UJ	1	U	1	U	1	U
49	43	n-Propylbenzene	1	U	1	UJ	1	U	1	U	1	U
50	44	tert-Butylbenzene	1	U	1	UJ	1	U	1	U	1	U
51	45	sec-Butylbenzene	1	U	1	UJ	1	U	1	U	1	U
52	46	4-Isopropyltoluene	1	U	1	UJ	1	U	1	U	1	U
53	47	n-Butylbenzene	1	U	1	UJ	1	U	1	U	1	U
54	48	Naphthalene	5	U	1	UJ	1	U	1	U	1	U
55		Methyl tert-butyl ether	1	U	1	UJ	1	U	1	U	1	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	0.25	U	**0.352**		**0.488**		**0.539**		**0.319**	
60	53	**TPH-D Motor Oil**	0.5	U	0.493	U	0.517	U	0.478	U	0.525	U
61	54	**TPH-Gasoline**	0.25	U	0.1	U	0.1	U	0.1	U	0.1	U
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW30D		LW30D		LW30D		LW30D		LW30D	
4			FZ04F		0402085-02		0406050-09		0408020-05		0411047-05	
5			10/27/03		2/18/04		6/8/04		8/03/04		11/8/04	
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.01**		**0.009**		**0.015**		**0.0128**		**0.0128**	
66	59	Chromium (6010)	**0.026**		**0.0196**		**0.119**		0.005	U	**0.0442**	
67	60	Copper (6010)	**0.04**		**0.016**		**0.156**		0.01	U	**0.0385**	
68	61	Lead (7421)	**0.008**		**0.0033**		**0.0292**		**0.00221**		**0.00785**	
69	62	Nickel (6010)	**0.03**		0.005	U	**0.0682**		0.005	U	0.005	U
70	63	Zinc (6010)	**0.07**		**0.0383**		**0.264**		**0.0504**		**0.0736**	
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**270**		**304**		**248**		**356**		**344**	
81	74	Chloride (mg/L) (EPA 325.2)	**7.3**		**8.36**		**7.41**		**7.88**		**6.54**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW30D		LW30D		LW30D		LW30D		LW30D	
4			FZ04F		0402085-02		0406050-09		0408020-05		0411047-05	
5			10/27/03		2/18/04		6/8/04		8/03/04		11/8/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.65		6.86		6.69		6.12		6.71	
89	82	Temperature (° C) (avg)	13.8		13.8		14.7		14.8		14.6	
90	83	Conductivity (um/hos)	426		450		478		677		476	
91	84	Dissolved oxygen (mg/L) (avg)	1.96		2		1.34		3.06		0.9	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW30D		LW30D		LW30D		LW30D		LW30D	
4			FZ04F		0402085-02		0406050-09		0408020-05		0411047-05	
5			10/27/03		2/18/04		6/8/04		8/03/04		11/8/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.11	U	0.0506	U	0.05	U	0.05	U	0.05	U
126		2-Methylnaphthalene	0.11	U	NA		NA		NA		NA	
127		Acenaphthylene	0.11	U	0.0506	U	0.05	U	0.05	U	0.05	U
128		Acenaphthene	0.11	U	0.0506	U	0.05	U	0.05	U	0.05	U
129		Fluorene	0.11	U	0.0506	U	0.05	U	0.05	U	0.05	U
130		Anthracene	0.11	U	0.0506	U	0.05	U	0.05	U	0.05	U
131		Dibenzofuran	0.11	U	NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW32D		LW32D		LW32D		LW32D		LW32D	
4			FZ04I		0402080-06		0406050-05		0408006-05		0411052-04	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04	
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		4.89	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2.1	U	1.93	U	2.02	U	2.02	U	1.96	U
20	14	4-Methylphenol	1.1	U	9.65	U	10.1	U	10.1	U	9.78	U
21	15	Isophorone	1.1	U	0.965	U	1.01	U	1.01	U	0.978	U
22	16	2,4-Dimethylphenol	3.2	U	2.9	U	3.04	U	3.03	U	2.93	U
23	17	Benzoic Acid	11	U	19.3	U	20.2	U	20.2	U	19.6	U
24	18	Naphthalene	1.1	U	0.965	U	1.01	U	1.01	U	0.978	U
25	19	2-Methylnaphthalene	1.1	U	0.965	U	1.01	U	1.01	U	0.978	U
26	20	2,4,6-Trichlorophenol	5.3	U	4.83	U	5.06	U	5.05	U	4.89	U
27	21	2,4,5-Trichlorophenol	5.3	U	4.83	U	5.06	U	5.05	U	4.89	U
28	22	Acenaphthene	1.1	U	0.965	U	1.01	U	1.01	U	0.978	U
29	23	Dibenzofuran	1.1	U	0.965	U	1.01	U	1.01	U	0.978	U
30	24	Fluorene	1.1	U	0.965	U	1.01	U	1.01	U	0.978	U
31	25	Pentachlorophenol	5.3	U	4.83	U	5.06	U	5.05	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	**2.2**		2.51	U	**2.21**		**2.01**		**1.05**	
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	5	U	50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U
39	33	Benzene	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	1	U	1	U	1	U	1	U	1	U
49	43	n-Propylbenzene	1	U	1	U	1	U	1	U	1	U
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	1	U	1	U	1	U	1	U	1	U
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	1	U	1	U	1	U	1	U	1	U
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U
55		Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**0.35**		**0.504**		**0.72**		**0.863**		**0.6**	
60	53	**TPH-D Motor Oil**	0.5	U	0.491	U	0.559	U	0.496	U	**0.501**	
61	54	**TPH-Gasoline**	0.25	U	0.1	U	0.1	U	0.1	U	**0.105**	
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW32D		LW32D		LW32D		LW32D		LW32D	
4			FZ04I		0402080-06		0406050-05		0408006-05		0411052-04	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04	
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.004**		**0.009**		**0.010**		**0.01**		**0.0104**	
66	59	Chromium (6010)	**0.063**		**0.0202**		**0.0261**		**0.0183**		**0.0446**	
67	60	Copper (6010)	**0.082**		**0.0109**		0.01	U	0.01	U	**0.0305**	
68	61	Lead (7421)	**0.018**		**0.0028**		**0.0020**		**0.00195**		**0.00582**	
69	62	Nickel (6010)	**0.05**		0.005	U	0.005	U	0.005	U	**0.013**	
70	63	Zinc (6010)	**0.146**		**0.0251**		**0.0189**		**0.0238**		**0.0734**	
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**270**		**332**		**343**		**272**		**345**	
81	74	Chloride (mg/L) (EPA 325.2)	**2.7**		**2.77**		**2.92**		**2.72**		**3.18**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW32D		LW32D		LW32D		LW32D		LW32D	
4			FZ04I		0402080-06		0406050-05		0408006-05		0411052-04	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.80		6.82		6.85		6.05		6.91	
89	82	Temperature (° C) (avg)	15.8		13.1		14.6		14.8		13.5	
90	83	Conductivity (um/hos)	436		474		421		646		467	
91	84	Dissolved oxygen (mg/L) (avg)	5.75		2.29		1.35		NM		1.76	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW32D		LW32D		LW32D		LW32D		LW32D	
4			FZ04I		0402080-06		0406050-05		0408006-05		0411052-04	
5			10/27/03		2/17/04		6/8/04		8/02/04		11/9/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.11	U	0.0473	UJ	0.05	U	**0.07**		0.0498	U
126		2-Methylnaphthalene	0.11	U	NA		NA		NA		NA	
127		Acenaphthylene	0.11	U	0.0473	UJ	0.05	U	0.05	U	0.0498	U
128		Acenaphthene	0.11	U	0.0473	UJ	0.05	U	0.05	U	0.0498	U
129		Fluorene	0.11	U	0.0473	UJ	0.05	U	0.05	U	0.0498	U
130		Anthracene	0.11	U	0.0473	UJ	0.05	U	0.05	U	0.0498	U
131		Dibenzofuran	0.11	U	NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW35D		LW35D		LW35D		LW35D		LW35D	
4			FZ04K		0402115-09		0406040-02		0408056-02		0411059-07	
5			10/27/03		2/24/04		6/7/04		8/09/04		11/10/04	
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	NA		NA		NA		NA		5.12	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA	
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2.9	U	1.99	U	2.01	U	1.95	U	2.05	U
20	14	4-Methylphenol	1.4	U	9.95	U	10	U	9.75	U	10.2	U
21	15	Isophorone	1.4	U	0.995	U	1	U	0.975	U	1.02	U
22	16	2,4-Dimethylphenol	4.3	U	2.99	U	3.01	U	2.92	U	3.07	U
23	17	Benzoic Acid	14	U	19.9	U	20.1	U	19.5	U	20.5	U
24	18	Naphthalene	1.4	U	0.995	U	1	U	0.975	U	1.02	U
25	19	2-Methylnaphthalene	1.4	U	0.995	U	1	U	0.975	U	1.02	U
26	20	2,4,6-Trichlorophenol	7.1	U	4.98	U	5.02	U	4.87	U	5.12	U
27	21	2,4,5-Trichlorophenol	7.1	U	4.98	U	5.02	U	4.87	U	5.12	U
28	22	Acenaphthene	1.4	U	0.995	U	1	U	0.975	U	1.02	U
29	23	Dibenzofuran	1.4	U	0.995	U	1	U	0.975	U	1.02	U
30	24	Fluorene	1.4	U	0.995	U	1	U	0.975	U	1.02	U
31	25	Pentachlorophenol	7.1	U	4.98	U	5.02	U	4.87	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	**2.7**		0.995	U	1	U	0.975	U	**2.73**	
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	**7.9**	M	50	U	50	U	50	U	50	U
37	31	Carbon Disulfide	1	U	2	U	2	U	2	U	2	U
38	32	2-Butanone	5	U	10	U	10	U	10	U	10	U
39	33	Benzene	1	U	0.4	U	0.3	U	0.3	U	0.3	U
40	34	Bromoform	1	U	1	U	1	U	1	U	1	U
41	35	Toluene	1	U	1	U	1	U	1	U	1	U
42	36	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
43	37	Styrene	1	U	1	U	1	U	1	U	1	U
44	38	m,p-Xylene	1	U	2	U	2	U	2	U	2	U
45	39	o-Xylene	1	U	1	U	1	U	1	U	1	U
46	40	1,3,5-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
47	41	1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U
48	42	Isopropylbenzene	**2.2**		**2.05**		1	U	1	U	1	U
49	43	n-Propylbenzene	1	U	1	U	1	U	1	U	1	U
50	44	tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U
51	45	sec-Butylbenzene	1	U	1	U	1	U	1	U	1	U
52	46	4-Isopropyltoluene	1	U	1	U	1	U	1	U	1	U
53	47	n-Butylbenzene	1	U	1	U	1	U	1	U	1	U
54	48	Naphthalene	5	U	1	U	1	U	1	U	1	U
55		Methyl tert-butyl ether	**1.5**		1	U	1	U	1	U	1	U
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**3.1**		**0.491**		**4.13**		**2.71**		**1.96**	
60	53	**TPH-D Motor Oil**	0.5	U	0.486	U	0.492	U	0.48	U	**1.45**	
61	54	**TPH-Gasoline**	0.25	U	0.1	U	**0.102**		0.1	U	0.1	U
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW35D		LW35D		LW35D		LW35D		LW35D	
4			FZ04K		0402115-09		0406040-02		0408056-02		0411059-07	
5			10/27/03		2/24/04		6/7/04		8/09/04		11/10/04	
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.018**		**0.002**		**0.004**		0.001	U	**0.0166**	
66	59	Chromium (6010)	**0.35**		**0.0165**		**0.0326**		**0.0172**		**0.051**	
67	60	Copper (6010)	**0.37**		0.01	U	**0.0107**		**0.0241**		**0.0354**	
68	61	Lead (7421)	**0.12**		**0.0042**		**0.0082**		**0.00314**		**0.0307**	
69	62	Nickel (6010)	**0.32**		0.005	U	**0.0114**		**0.0186**		**0.0647**	
70	63	Zinc (6010)	**0.93**		**0.0128**		**0.0444**		**0.0427**		**0.168**	
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**240**		**263**		**364**		**322**		**868**	J
81	74	Chloride (mg/L) (EPA 325.2)	**3.2**		**1.53**		**1.97**		**1.63**		**1.64**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA	
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW35D		LW35D		LW35D		LW35D		LW35D	
4			FZ04K		0402115-09		0406040-02		0408056-02		0411059-07	
5			10/27/03		2/24/04		6/7/04		8/09/04		11/10/04	
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.51		6.44		5.19		5.59		6.79	
89	82	Temperature (° C) (avg)	14.9		13.3		13.8		14.1		13.4	
90	83	Conductivity (um/hos)	526		272		428		722		473	
91	84	Dissolved oxygen (mg/L) (avg)	0.58		4.29		2.15		3.09		2.67	
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA	
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW35D		LW35D		LW35D		LW35D		LW35D	
4			FZ04K		0402115-09		0406040-02		0408056-02		0411059-07	
5			10/27/03		2/24/04		6/7/04		8/09/04		11/10/04	
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.14	U	0.0509	U	**0.133**		0.0487	U	0.0503	U
126		2-Methylnaphthalene	0.14	U	NA		NA		NA		NA	
127		Acenaphthylene	0.14	U	0.0509	U	0.0513	U	**0.0584**		0.0503	U
128		Acenaphthene	0.14	U	0.0509	U	0.0513	U	0.0487	U	0.0503	U
129		Fluorene	0.14	U	0.0509	U	0.0513	U	**0.477**		0.0503	U
130		Anthracene	0.14	U	0.0509	U	0.0513	U	0.0487	U	**0.0603**	
131		Dibenzofuran	0.14	U	NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW36D									
4			0411059-08									
5			11/10/04									
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	4.95	U								
10	4	2,4,6-Trichlorophenol	NA									
11	5	2,3,6-Trichlorophenol	NA									
12	6	2,4,5-Trichlorophenol	NA									
13	7	2,3,4-Trichlorophenol	NA									
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA									
15	9	2,3,4,5-Tetrachlorophenol	NA									
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	1.98	U								
20	14	4-Methylphenol	9.9	U								
21	15	Isophorone	0.99	U								
22	16	2,4-Dimethylphenol	2.97	U								
23	17	Benzoic Acid	19.8	U								
24	18	Naphthalene	0.99	U								
25	19	2-Methylnaphthalene	0.99	U								
26	20	2,4,6-Trichlorophenol	4.95	U								
27	21	2,4,5-Trichlorophenol	4.95	U								
28	22	Acenaphthene	0.99	U								
29	23	Dibenzofuran	0.99	U								
30	24	Fluorene	0.99	U								
31	25	Pentachlorophenol	NA									
32	26	bis(2-Ethylhexyl)phthalate	0.99	U								
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	50	U								
37	31	Carbon Disulfide	2	U								
38	32	2-Butanone	10	U								
39	33	Benzene	0.3	U								
40	34	Bromoform	1	U								
41	35	Toluene	1	U								
42	36	Ethylbenzene	1	U								
43	37	Styrene	1	U								
44	38	m,p-Xylene	2	U								
45	39	o-Xylene	1	U								
46	40	1,3,5-Trimethylbenzene	1	U								
47	41	1,2,4-Trimethylbenzene	1	U								
48	42	Isopropylbenzene	1	U								
49	43	n-Propylbenzene	1	U								
50	44	tert-Butylbenzene	1	U								
51	45	sec-Butylbenzene	1	U								
52	46	4-Isopropyltoluene	1	U								
53	47	n-Butylbenzene	1	U								
54	48	Naphthalene	1	U								
55		Methyl tert-butyl ether	1	U								
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**0.252**									
60	53	**TPH-D Motor Oil**	**0.58**									
61	54	**TPH-Gasoline**	0.1	U								
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW36D									
4			0411059-08									
5			11/10/04									
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	0.001	U								
66	59	Chromium (6010)	0.005	U								
67	60	Copper (6010)	0.01	U								
68	61	Lead (7421)	0.00025	U								
69	62	Nickel (6010)	0.005	U								
70	63	Zinc (6010)	0.01	U								
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA									
74	67	Magnesium (mg/L) (6010)	NA									
75	68	Potassium (mg/L) (6010)	NA									
76	69	Sodium (mg/L) (6010)	NA									
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA									
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA									
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA									
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**180**	J								
81	74	Chloride (mg/L) (EPA 325.2)	**3.32**									
82	75	N-Nitrate (mg-N/L) (Calculated)	NA									
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA									
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA									
85	78	Sulfate (mg/L) (EPA 375.2)	NA									
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW36D									
4			0411059-08									
5			11/10/04									
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.84									
89	82	Temperature (° C) (avg)	16.2									
90	83	Conductivity (um/hos)	212									
91	84	Dissolved oxygen (mg/L) (avg)	1.84									
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA									
96	89	Total TCDF	NA									
97	90	2,3,7,8-TCDD	NA									
98	91	Total TCDD	NA									
99	92	1,2,3,7,8-PeCDF	NA									
100	93	2,3,4,7,8-PeCDF	NA									
101	94	Total PeCDF	NA									
102	95	1,2,3,7,8-PeCDD	NA									
103	96	Total PeCDD	NA									
104	97	1,2,3,4,7,8-HxCDF	NA									
105	98	1,2,3,6,7,8-HxCDF	NA									
106	99	2,3,4,6,7,8-HxCDF	NA									
107	100	1,2,3,7,8,9-HxCDF	NA									
108	101	Total HxCDF	NA									
109	102	1,2,3,4,7,8-HxCDD	NA									
110	103	1,2,3,6,7,8-HxCDD	NA									
111	104	1,2,3,7,8,9-HxCDD	NA									
112	105	Total HxCDD	NA									
113	106	1,2,3,4,6,7,8-HpCDF	NA									
114	107	1,2,3,4,7,8,9-HpCDF	NA									
115	108	Total HpCDF	NA									
116	109	1,2,3,4,6,7,8-HpCDD	NA									
117	110	Total HpCDD	NA									
118	111	OCDF	NA									
119	112	OCDD	NA									
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW36D									
4			0411059-08									
5			11/10/04									
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.0505	U								
126		2-Methylnaphthalene	NA									
127		Acenaphthylene	0.0505	U								
128		Acenaphthene	0.0505	U								
129		Fluorene	0.0505	U								
130		Anthracene	0.0505	U								
131		Dibenzofuran	NA									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW37D									
4			0411059-09									
5			11/10/04									
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	5.07	U								
10	4	2,4,6-Trichlorophenol	NA									
11	5	2,3,6-Trichlorophenol	NA									
12	6	2,4,5-Trichlorophenol	NA									
13	7	2,3,4-Trichlorophenol	NA									
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA									
15	9	2,3,4,5-Tetrachlorophenol	NA									
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2.03	U								
20	14	4-Methylphenol	10.1	U								
21	15	Isophorone	1.01	U								
22	16	2,4-Dimethylphenol	3.04	U								
23	17	Benzoic Acid	20.3	U								
24	18	Naphthalene	1.01	U								
25	19	2-Methylnaphthalene	1.01	U								
26	20	2,4,6-Trichlorophenol	5.07	U								
27	21	2,4,5-Trichlorophenol	5.07	U								
28	22	Acenaphthene	1.01	U								
29	23	Dibenzofuran	1.01	U								
30	24	Fluorene	1.01	U								
31	25	Pentachlorophenol	NA									
32	26	bis(2-Ethylhexyl)phthalate	1.01	U								
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	50	U								
37	31	Carbon Disulfide	2	U								
38	32	2-Butanone	10	U								
39	33	Benzene	0.3	U								
40	34	Bromoform	1	U								
41	35	Toluene	1	U								
42	36	Ethylbenzene	1	U								
43	37	Styrene	1	U								
44	38	m,p-Xylene	2	U								
45	39	o-Xylene	1	U								
46	40	1,3,5-Trimethylbenzene	1	U								
47	41	1,2,4-Trimethylbenzene	1	U								
48	42	Isopropylbenzene	1	U								
49	43	n-Propylbenzene	1	U								
50	44	tert-Butylbenzene	1	U								
51	45	sec-Butylbenzene	1	U								
52	46	4-Isopropyltoluene	1	U								
53	47	n-Butylbenzene	1	U								
54	48	Naphthalene	1	U								
55		Methyl tert-butyl ether	1	U								
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	0.25	U								
60	53	**TPH-D Motor Oil**	0.5	U								
61	54	**TPH-Gasoline**	0.1	U								
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW37D									
4			0411059-09									
5			11/10/04									
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.00578**									
66	59	Chromium (6010)	**0.0261**									
67	60	Copper (6010)	**0.0196**									
68	61	Lead (7421)	**0.0098**									
69	62	Nickel (6010)	**0.0117**									
70	63	Zinc (6010)	**0.0505**									
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA									
74	67	Magnesium (mg/L) (6010)	NA									
75	68	Potassium (mg/L) (6010)	NA									
76	69	Sodium (mg/L) (6010)	NA									
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA									
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA									
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA									
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**90**	J								
81	74	Chloride (mg/L) (EPA 325.2)	**6.91**									
82	75	N-Nitrate (mg-N/L) (Calculated)	NA									
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA									
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA									
85	78	Sulfate (mg/L) (EPA 375.2)	NA									
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW37D									
4			0411059-09									
5			11/10/04									
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	7.1									
89	82	Temperature (° C) (avg)	14.5									
90	83	Conductivity (um/hos)	79									
91	84	Dissolved oxygen (mg/L) (avg)	2.19									
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA									
96	89	Total TCDF	NA									
97	90	2,3,7,8-TCDD	NA									
98	91	Total TCDD	NA									
99	92	1,2,3,7,8-PeCDF	NA									
100	93	2,3,4,7,8-PeCDF	NA									
101	94	Total PeCDF	NA									
102	95	1,2,3,7,8-PeCDD	NA									
103	96	Total PeCDD	NA									
104	97	1,2,3,4,7,8-HxCDF	NA									
105	98	1,2,3,6,7,8-HxCDF	NA									
106	99	2,3,4,6,7,8-HxCDF	NA									
107	100	1,2,3,7,8,9-HxCDF	NA									
108	101	Total HxCDF	NA									
109	102	1,2,3,4,7,8-HxCDD	NA									
110	103	1,2,3,6,7,8-HxCDD	NA									
111	104	1,2,3,7,8,9-HxCDD	NA									
112	105	Total HxCDD	NA									
113	106	1,2,3,4,6,7,8-HpCDF	NA									
114	107	1,2,3,4,7,8,9-HpCDF	NA									
115	108	Total HpCDF	NA									
116	109	1,2,3,4,6,7,8-HpCDD	NA									
117	110	Total HpCDD	NA									
118	111	OCDF	NA									
119	112	OCDD	NA									
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW37D									
4			0411059-09									
5			11/10/04									
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.054	U								
126		2-Methylnaphthalene	NA									
127		Acenaphthylene	0.054	U								
128		Acenaphthene	0.054	U								
129		Fluorene	0.054	U								
130		Anthracene	0.054	U								
131		Dibenzofuran	NA									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW38D									
4			0411059-10									
5			11/10/04									
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	4.92	U								
10	4	2,4,6-Trichlorophenol	NA									
11	5	2,3,6-Trichlorophenol	NA									
12	6	2,4,5-Trichlorophenol	NA									
13	7	2,3,4-Trichlorophenol	NA									
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA									
15	9	2,3,4,5-Tetrachlorophenol	NA									
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	1.97	U								
20	14	4-Methylphenol	9.84	U								
21	15	Isophorone	0.984	U								
22	16	2,4-Dimethylphenol	2.95	U								
23	17	Benzoic Acid	19.7	U								
24	18	Naphthalene	0.984	U								
25	19	2-Methylnaphthalene	0.984	U								
26	20	2,4,6-Trichlorophenol	4.92	U								
27	21	2,4,5-Trichlorophenol	4.92	U								
28	22	Acenaphthene	0.984	U								
29	23	Dibenzofuran	0.984	U								
30	24	Fluorene	0.984	U								
31	25	Pentachlorophenol	NA									
32	26	bis(2-Ethylhexyl)phthalate	0.984	U								
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	50	U								
37	31	Carbon Disulfide	2	U								
38	32	2-Butanone	10	U								
39	33	Benzene	0.3	U								
40	34	Bromoform	1	U								
41	35	Toluene	1	U								
42	36	Ethylbenzene	1	U								
43	37	Styrene	1	U								
44	38	m,p-Xylene	2	U								
45	39	o-Xylene	1	U								
46	40	1,3,5-Trimethylbenzene	1	U								
47	41	1,2,4-Trimethylbenzene	1	U								
48	42	Isopropylbenzene	1	U								
49	43	n-Propylbenzene	1	U								
50	44	tert-Butylbenzene	1	U								
51	45	sec-Butylbenzene	1	U								
52	46	4-Isopropyltoluene	1	U								
53	47	n-Butylbenzene	1	U								
54	48	Naphthalene	1	U								
55		Methyl tert-butyl ether	1	U								
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**0.954**									
60	53	**TPH-D Motor Oil**	**0.702**									
61	54	**TPH-Gasoline**	**0.12**									
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW38D									
4			0411059-10									
5			11/10/04									
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.00867**									
66	59	Chromium (6010)	**0.0138**									
67	60	Copper (6010)	0.01	U								
68	61	Lead (7421)	0.0002	U								
69	62	Nickel (6010)	0.005	U								
70	63	Zinc (6010)	0.01	U								
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA									
74	67	Magnesium (mg/L) (6010)	NA									
75	68	Potassium (mg/L) (6010)	NA									
76	69	Sodium (mg/L) (6010)	NA									
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA									
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA									
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA									
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**157**	J								
81	74	Chloride (mg/L) (EPA 325.2)	**6.2**									
82	75	N-Nitrate (mg-N/L) (Calculated)	NA									
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA									
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA									
85	78	Sulfate (mg/L) (EPA 375.2)	NA									
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW38D									
4			0411059-10									
5			11/10/04									
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.84									
89	82	Temperature (° C) (avg)	16.2									
90	83	Conductivity (um/hos)	159									
91	84	Dissolved oxygen (mg/L) (avg)	1.59									
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA									
96	89	Total TCDF	NA									
97	90	2,3,7,8-TCDD	NA									
98	91	Total TCDD	NA									
99	92	1,2,3,7,8-PeCDF	NA									
100	93	2,3,4,7,8-PeCDF	NA									
101	94	Total PeCDF	NA									
102	95	1,2,3,7,8-PeCDD	NA									
103	96	Total PeCDD	NA									
104	97	1,2,3,4,7,8-HxCDF	NA									
105	98	1,2,3,6,7,8-HxCDF	NA									
106	99	2,3,4,6,7,8-HxCDF	NA									
107	100	1,2,3,7,8,9-HxCDF	NA									
108	101	Total HxCDF	NA									
109	102	1,2,3,4,7,8-HxCDD	NA									
110	103	1,2,3,6,7,8-HxCDD	NA									
111	104	1,2,3,7,8,9-HxCDD	NA									
112	105	Total HxCDD	NA									
113	106	1,2,3,4,6,7,8-HpCDF	NA									
114	107	1,2,3,4,7,8,9-HpCDF	NA									
115	108	Total HpCDF	NA									
116	109	1,2,3,4,6,7,8-HpCDD	NA									
117	110	Total HpCDD	NA									
118	111	OCDF	NA									
119	112	OCDD	NA									
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW38D									
4			0411059-10									
5			11/10/04									
6												
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	**0.08**									
126		2-Methylnaphthalene	NA									
127		Acenaphthylene	0.05	U								
128		Acenaphthene	**0.12**									
129		Fluorene	**0.19**									
130		Anthracene	0.05	U								
131		Dibenzofuran	NA									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW39D									
4			0411059-11									
5			11/10/04									
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	5.29	U								
10	4	2,4,6-Trichlorophenol	NA									
11	5	2,3,6-Trichlorophenol	NA									
12	6	2,4,5-Trichlorophenol	NA									
13	7	2,3,4-Trichlorophenol	NA									
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA									
15	9	2,3,4,5-Tetrachlorophenol	NA									
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2.12	U								
20	14	4-Methylphenol	10.6	U								
21	15	Isophorone	1.06	U								
22	16	2,4-Dimethylphenol	3.17	U								
23	17	Benzoic Acid	21.2	U								
24	18	Naphthalene	1.06	U								
25	19	2-Methylnaphthalene	1.06	U								
26	20	2,4,6-Trichlorophenol	5.29	U								
27	21	2,4,5-Trichlorophenol	5.29	U								
28	22	Acenaphthene	1.06	U								
29	23	Dibenzofuran	1.06	U								
30	24	Fluorene	1.06	U								
31	25	Pentachlorophenol	NA									
32	26	bis(2-Ethylhexyl)phthalate	1.06	U								
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	50	U								
37	31	Carbon Disulfide	2	U								
38	32	2-Butanone	10	U								
39	33	Benzene	0.3	U								
40	34	Bromoform	1	U								
41	35	Toluene	1	U								
42	36	Ethylbenzene	1	U								
43	37	Styrene	1	U								
44	38	m,p-Xylene	2	U								
45	39	o-Xylene	1	U								
46	40	1,3,5-Trimethylbenzene	1	U								
47	41	1,2,4-Trimethylbenzene	1	U								
48	42	Isopropylbenzene	1	U								
49	43	n-Propylbenzene	1	U								
50	44	tert-Butylbenzene	1	U								
51	45	sec-Butylbenzene	1	U								
52	46	4-Isopropyltoluene	1	U								
53	47	n-Butylbenzene	1	U								
54	48	Naphthalene	1	U								
55		Methyl tert-butyl ether	1	U								
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**0.455**									
60	53	**TPH-D Motor Oil**	**0.52**									
61	54	**TPH-Gasoline**	**0.133**									
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW39D									
4			0411059-11									
5			11/10/04									
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.0107**									
66	59	Chromium (6010)	**0.0124**									
67	60	Copper (6010)	0.01	U								
68	61	Lead (7421)	**0.0003**									
69	62	Nickel (6010)	0.005	U								
70	63	Zinc (6010)	0.01	U								
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA									
74	67	Magnesium (mg/L) (6010)	NA									
75	68	Potassium (mg/L) (6010)	NA									
76	69	Sodium (mg/L) (6010)	NA									
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA									
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA									
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA									
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**127**	J								
81	74	Chloride (mg/L) (EPA 325.2)	**5.1**									
82	75	N-Nitrate (mg-N/L) (Calculated)	NA									
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA									
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA									
85	78	Sulfate (mg/L) (EPA 375.2)	NA									
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW39D									
4			0411059-11									
5			11/10/04									
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.75									
89	82	Temperature (° C) (avg)	15.8									
90	83	Conductivity (um/hos)	154									
91	84	Dissolved oxygen (mg/L) (avg)	1.91									
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA									
96	89	Total TCDF	NA									
97	90	2,3,7,8-TCDD	NA									
98	91	Total TCDD	NA									
99	92	1,2,3,7,8-PeCDF	NA									
100	93	2,3,4,7,8-PeCDF	NA									
101	94	Total PeCDF	NA									
102	95	1,2,3,7,8-PeCDD	NA									
103	96	Total PeCDD	NA									
104	97	1,2,3,4,7,8-HxCDF	NA									
105	98	1,2,3,6,7,8-HxCDF	NA									
106	99	2,3,4,6,7,8-HxCDF	NA									
107	100	1,2,3,7,8,9-HxCDF	NA									
108	101	Total HxCDF	NA									
109	102	1,2,3,4,7,8-HxCDD	NA									
110	103	1,2,3,6,7,8-HxCDD	NA									
111	104	1,2,3,7,8,9-HxCDD	NA									
112	105	Total HxCDD	NA									
113	106	1,2,3,4,6,7,8-HpCDF	NA									
114	107	1,2,3,4,7,8,9-HpCDF	NA									
115	108	Total HpCDF	NA									
116	109	1,2,3,4,6,7,8-HpCDD	NA									
117	110	Total HpCDD	NA									
118	111	OCDF	NA									
119	112	OCDD	NA									
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW39D									
4			0411059-11									
5			11/10/04									
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	**0.114**									
126		2-Methylnaphthalene	NA									
127		Acenaphthylene	0.0517	U								
128		Acenaphthene	**0.145**									
129		Fluorene	0.0517	U								
130		Anthracene	0.0517	U								
131		Dibenzofuran	NA									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW40D									
4			0411150-01									
5			11/29/04									
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	5.32	U								
10	4	2,4,6-Trichlorophenol	NA									
11	5	2,3,6-Trichlorophenol	NA									
12	6	2,4,5-Trichlorophenol	NA									
13	7	2,3,4-Trichlorophenol	NA									
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA									
15	9	2,3,4,5-Tetrachlorophenol	NA									
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2.13	U								
20	14	4-Methylphenol	10.6	U								
21	15	Isophorone	1.06	U								
22	16	2,4-Dimethylphenol	3.19	U								
23	17	Benzoic Acid	21.3	U								
24	18	Naphthalene	1.06	U								
25	19	2-Methylnaphthalene	1.06	U								
26	20	2,4,6-Trichlorophenol	5.32	U								
27	21	2,4,5-Trichlorophenol	5.32	U								
28	22	Acenaphthene	1.06	U								
29	23	Dibenzofuran	1.06	U								
30	24	Fluorene	1.06	U								
31	25	Pentachlorophenol	NA									
32	26	bis(2-Ethylhexyl)phthalate	1.06	U								
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	50	U								
37	31	Carbon Disulfide	2	U								
38	32	2-Butanone	10	U								
39	33	Benzene	0.3	U								
40	34	Bromoform	1	U								
41	35	Toluene	1	U								
42	36	Ethylbenzene	1	U								
43	37	Styrene	1	U								
44	38	m,p-Xylene	2	U								
45	39	o-Xylene	1	U								
46	40	1,3,5-Trimethylbenzene	1	U								
47	41	1,2,4-Trimethylbenzene	1	U								
48	42	Isopropylbenzene	1	U								
49	43	n-Propylbenzene	1	U								
50	44	tert-Butylbenzene	1	U								
51	45	sec-Butylbenzene	1	U								
52	46	4-Isopropyltoluene	1	U								
53	47	n-Butylbenzene	1	U								
54	48	Naphthalene	1	U								
55		Methyl tert-butyl ether	1	U								
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**0.263**									
60	53	**TPH-D Motor Oil**	**0.672**									
61	54	**TPH-Gasoline**	0.1	U								
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW40D									
4			0411150-01									
5			11/29/04									
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.00411**									
66	59	Chromium (6010)	**0.0071**									
67	60	Copper (6010)	0.01	U								
68	61	Lead (7421)	**0.00167**									
69	62	Nickel (6010)	**0.0211**									
70	63	Zinc (6010)	**0.206**									
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA									
74	67	Magnesium (mg/L) (6010)	NA									
75	68	Potassium (mg/L) (6010)	NA									
76	69	Sodium (mg/L) (6010)	NA									
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA									
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA									
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA									
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**200**									
81	74	Chloride (mg/L) (EPA 325.2)	**2.42**									
82	75	N-Nitrate (mg-N/L) (Calculated)	NA									
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA									
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA									
85	78	Sulfate (mg/L) (EPA 375.2)	NA									
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW40D									
4			0411150-01									
5			11/29/04									
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.1									
89	82	Temperature (° C) (avg)	11.8									
90	83	Conductivity (um/hos)	207									
91	84	Dissolved oxygen (mg/L) (avg)	999									
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA									
96	89	Total TCDF	NA									
97	90	2,3,7,8-TCDD	NA									
98	91	Total TCDD	NA									
99	92	1,2,3,7,8-PeCDF	NA									
100	93	2,3,4,7,8-PeCDF	NA									
101	94	Total PeCDF	NA									
102	95	1,2,3,7,8-PeCDD	NA									
103	96	Total PeCDD	NA									
104	97	1,2,3,4,7,8-HxCDF	NA									
105	98	1,2,3,6,7,8-HxCDF	NA									
106	99	2,3,4,6,7,8-HxCDF	NA									
107	100	1,2,3,7,8,9-HxCDF	NA									
108	101	Total HxCDF	NA									
109	102	1,2,3,4,7,8-HxCDD	NA									
110	103	1,2,3,6,7,8-HxCDD	NA									
111	104	1,2,3,7,8,9-HxCDD	NA									
112	105	Total HxCDD	NA									
113	106	1,2,3,4,6,7,8-HpCDF	NA									
114	107	1,2,3,4,7,8,9-HpCDF	NA									
115	108	Total HpCDF	NA									
116	109	1,2,3,4,6,7,8-HpCDD	NA									
117	110	Total HpCDD	NA									
118	111	OCDF	NA									
119	112	OCDD	NA									
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW40D									
4			0411150-01									
5			11/29/04									
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	0.09	U								
126		2-Methylnaphthalene	NA									
127		Acenaphthylene	0.05	U								
128		Acenaphthene	0.05	U								
129		Fluorene	0.05	U								
130		Anthracene	0.05	U								
131		Dibenzofuran	NA									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW45D									
4			0411065-04									
5			11/11/04									
6												
7	1	**CHLORINATED PHENOLS (µg/L)**										
8	2	**EPA Method SW8040**										
9	3	Pentachlorophenol	5.19	U								
10	4	2,4,6-Trichlorophenol	NA									
11	5	2,3,6-Trichlorophenol	NA									
12	6	2,4,5-Trichlorophenol	NA									
13	7	2,3,4-Trichlorophenol	NA									
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA									
15	9	2,3,4,5-Tetrachlorophenol	NA									
16	10											
17	11	**SEMIVOLATILES (µg/L)**										
18	12	**EPA Method SW8270**										
19	13	Phenol	2.08	U								
20	14	4-Methylphenol	10.4	U								
21	15	Isophorone	1.04	U								
22	16	2,4-Dimethylphenol	3.12	U								
23	17	Benzoic Acid	20.8	U								
24	18	Naphthalene	1.04	U								
25	19	2-Methylnaphthalene	1.04	U								
26	20	2,4,6-Trichlorophenol	5.19	U								
27	21	2,4,5-Trichlorophenol	5.19	U								
28	22	Acenaphthene	1.04	U								
29	23	Dibenzofuran	1.04	U								
30	24	Fluorene	1.06	U								
31	25	Pentachlorophenol	NA									
32	26	bis(2-Ethylhexyl)phthalate	**3.97**									
33	27											
34	28	**VOLATILES (µg/L)**										
35	29	**EPA Method SW8260**										
36	30	Acetone	50	U								
37	31	Carbon Disulfide	2	U								
38	32	2-Butanone	10	U								
39	33	Benzene	**0.4**									
40	34	Bromoform	1	U								
41	35	Toluene	1	U								
42	36	Ethylbenzene	1	U								
43	37	Styrene	1	U								
44	38	m,p-Xylene	2	U								
45	39	o-Xylene	**1.53**									
46	40	1,3,5-Trimethylbenzene	1	U								
47	41	1,2,4-Trimethylbenzene	1	U								
48	42	Isopropylbenzene	**18.3**									
49	43	n-Propylbenzene	**4.92**									
50	44	tert-Butylbenzene	1	U								
51	45	sec-Butylbenzene	**2.85**									
52	46	4-Isopropyltoluene	1	U								
53	47	n-Butylbenzene	**1.33**									
54	48	Naphthalene	1	U								
55		Methyl tert-butyl ether	**1.88**									
56	49											
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**										
58	51	**Method OR-DEQ**										
59	52	**TPH-Diesel**	**3.91**									
60	53	**TPH-D Motor Oil**	**1.9**									
61	54	**TPH-Gasoline**	**0.776**									
62	55											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW45D									
4			0411065-04									
5			11/11/04									
63	56	**PRIORITY POLLUTANT**										
64	57	**METALS (mg/L)**										
65	58	Arsenic (7060)	**0.0532**									
66	59	Chromium (6010)	**0.14**									
67	60	Copper (6010)	**0.12**									
68	61	Lead (7421)	**0.106**									
69	62	Nickel (6010)	**0.132**									
70	63	Zinc (6010)	**0.416**									
71	64											
72	65	**MAJOR IONS AND CONVENTIONALS**										
73	66	Calcium (mg/L) (6010)	NA									
74	67	Magnesium (mg/L) (6010)	NA									
75	68	Potassium (mg/L) (6010)	NA									
76	69	Sodium (mg/L) (6010)	NA									
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA									
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA									
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA									
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**388**									
81	74	Chloride (mg/L) (EPA 325.2)	**0.51**									
82	75	N-Nitrate (mg-N/L) (Calculated)	NA									
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA									
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA									
85	78	Sulfate (mg/L) (EPA 375.2)	NA									
86	79											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW45D									
4			0411065-04									
5			11/11/04									
87	80	**FIELD PARAMETERS**										
88	81	pH (avg)	6.59									
89	82	Temperature (° C) (avg)	14									
90	83	Conductivity (um/hos)	597									
91	84	Dissolved oxygen (mg/L) (avg)	0.58									
92	85											
93	86	**DIOXINS AND FURANS (ng/L)**										
94	87	**Method 8290**										
95	88	2,3,7,8-TCDF	NA									
96	89	Total TCDF	NA									
97	90	2,3,7,8-TCDD	NA									
98	91	Total TCDD	NA									
99	92	1,2,3,7,8-PeCDF	NA									
100	93	2,3,4,7,8-PeCDF	NA									
101	94	Total PeCDF	NA									
102	95	1,2,3,7,8-PeCDD	NA									
103	96	Total PeCDD	NA									
104	97	1,2,3,4,7,8-HxCDF	NA									
105	98	1,2,3,6,7,8-HxCDF	NA									
106	99	2,3,4,6,7,8-HxCDF	NA									
107	100	1,2,3,7,8,9-HxCDF	NA									
108	101	Total HxCDF	NA									
109	102	1,2,3,4,7,8-HxCDD	NA									
110	103	1,2,3,6,7,8-HxCDD	NA									
111	104	1,2,3,7,8,9-HxCDD	NA									
112	105	Total HxCDD	NA									
113	106	1,2,3,4,6,7,8-HpCDF	NA									
114	107	1,2,3,4,7,8,9-HpCDF	NA									
115	108	Total HpCDF	NA									
116	109	1,2,3,4,6,7,8-HpCDD	NA									
117	110	Total HpCDD	NA									
118	111	OCDF	NA									
119	112	OCDD	NA									
120												
121												
122												

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3			LW45D									
4			0411065-04									
5			11/11/04									
123		**PAHs (µg/L)**										
124		**EPA Method SW8270 SIM**										
125		Naphthalene	**0.557**									
126		2-Methylnaphthalene	NA									
127		Acenaphthylene	**0.105**									
128		Acenaphthene	**0.473**									
129		Fluorene	**0.935**									
130		Anthracene	**5.44**									
131		Dibenzofuran	NA									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			O		O		O		O		O		O		O		O		O		O		O		O		O		O	
4			S177M		T176J		U235P		V208J		W391L		Y314M		Z225S		Z960Y		AH27A		AU45O		BC30B		BH96A		BR64A		CB85C	
5			4/1/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99		2/16/00		5/23/00		8/30/00	
6																														
7	1	**CHLORINATED PHENOLS (µg/L)**																												
8	2	**EPA Method SW8040**																												
9	3	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16	10																													
17	11	**SEMIVOLATILES (µg/L)**																												
18	12	**EPA Method SW8270**																												
19	13	Phenol	**8.9**		**20**		**2.8**		2.0	U	2.0	U	2.0	U	**4.1**		2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.6**		**1.0**		1.0	U	**1.2**		1.0	U	1.0	U	1.0	U	**1.9**		
29	23	Dibenzofuran	1.0	U	**2.2**		**2.0**		1.0	U	1.0	U	**1.6**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**2.2**		1.0	U	1.0	U	**1.9**		1.0	U	1.0	U	**1.7**		**2.9**		
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	**1.0**	J2	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
33	27																													
34	28	**VOLATILES (µg/L)**																												
35	29	**EPA Method SW8260**																												
36	30	Acetone	5.0	U	**6.2**		**9.4**		**6.0**		8.5	U	**7.0**		**27**		5.0	U	5.0	U	**17**		5.0	U	17	U	**6.7**	M	**45**		
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	**7.1**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
39	33	Benzene	**180**		**690**		**94**		1.0	U	1.0	U	**34**		**39**		**2.3**		**37**		**28**		1.0	U	1.0	U	1.0	U	**18**		
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	**1.1**		**1.6**		1.0	U	1.0	U	**6.3**		**5.3**		1.0	U	1.0	U	**2.5**		1.0	U	**1.5**		1.0	U	**1.8**		
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	1.0	U	1.0	U	**1.5**		1.0	U	1.0	U	**5.0**		**3.8**		1.0	U	1.0	U	**1.6**		1.0	U	**1.1**		1.0	U	**1.3**		
45	39	o-Xylene	1.0	U	**1.3**		1.0	U	1.0	U	1.0	U	**1.6**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	**1.0**	J2	1.0	U	1.0	U	**2.2**		**4.7**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
48	42	Isopropylbenzene	1.0	U	**15**		**22**	J2	**1.2**		**18**		**28**		**71**		1.0	U	**2.2**		**20**		**7.8**		**27**		**6.0**		**26**		
49	43	n-Propylbenzene	1.0	U	**9.8**		**7.2**		1.0	U	1.0	U	**14**		**51**		1.0	U	**2.0**		**15**		**2.3**		**12**		**3.0**		**15**		
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.0**	J1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
51	45	sec-Butylbenzene	1.0	U	**7.7**		**6.1**	J2	**1.3**		**5.2**		**10**	J2	**7.4**		**8.5**		**7.9**		**6.4**		**1.6**		**4.3**		**6.9**		**5.1**		
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
53	47	n-Butylbenzene	1.0	U	**1.9**		**1.2**	J2	1.0	U	1.0	U	**2.9**		**3.7**		**1.4**		**2.9**		**2.7**		1.0	U	**1.1**		**1.0**		**2.0**		
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
56	49																													
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
58	51	**Method OR-DEQ**																												
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
62	55																													

BZTO104(e)022641

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
3		O		O		O		O		O		O		O		O		O		O		O		O		O	
4		CL03P		CT55I		DE87A		DM30S		DW48E		ED23F		EM75L		ER93A		EY88A		FF88I		FL66B		FU45T		FY82Q	
5		11/8/00		2/13/01		6/5/01		8/14/01		11/29/01		2/26/02		6/25/02		08/26/02		11/11/02		2/13/03		5/9/03		8/28/03		10/24/03	
7	**CHLORINATED PHENOLS (µg/L)**																										
8	**EPA Method SW8040**																										
9	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																											
17	**SEMIVOLATILES (µg/L)**																										
18	**EPA Method SW8270**																										
19	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.2	U	2.2	U	2	U	2	U	2.3	U	2.1	U
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1.1	U	1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1.1	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.3	U	3.3	U	3.1	U	3	U	3.4	U	3.1	U
23	Benzoic Acid	10	U	10	U	10	U	10	U	30	U	50	U	50	U	56	U	54	U	51	U	50	U	57	U	10	U
24	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1.1	U	1	U
25	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1.1	U	1	U
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5.4	U	5.1	U	5	U	5.7	U	5.2	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5.4	U	5.1	U	5	U	5.7	U	5.2	U
28	Acenaphthene	**1.8**		1.0	U	1.0	U	**1.3**		1.0	U	1.0	U	1.0	U	1.1	U	**1.7**		1	U	1	U	1.1	U	**1.2**	
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1.1	U	1	U
30	Fluorene	**3.5**		**2.0**		**1.6**		**1.6**		1.0	U	1.0	U	1.0	U	1.1	U	**2.1**		1	U	1	U	1.1	U	**1.8**	
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.6	U	5.4	U	5.1	U	5	U	5.7	U	5.2	U
32	bis(2-Ethylhexyl)phthalate	**2.2**		1.0	U	**1.1**		**2.0**		1.0	U	4.0	U	4.0	U	4.4	U	4.3	U	1	U	1	U	1.1	U	1	U
33																											
34	**VOLATILES (µg/L)**																										
35	**EPA Method SW8260**																										
36	Acetone	**11**			R	**8.7**		5.0	U	5.0	U	5.0	U	**11**		**5.7**		5	U	5	U	5	U	**11**	J	**11**	
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
38	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U
39	Benzene	**7.7**		1.0	U	1.0	U	1.0	U	**1.0**		1.0	U	1.0	U	**2.6**		**40**		1	U	1	U	1	U	**1.5**	
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	**3.0**		**2.3**		**1.6**		**1.1**		**2.4**		1.0	U	1.0	U	1	U	**2.5**		1	U	1	U	**1.4**		**1.4**	
42	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	**2.6**		**2.6**		**1.9**		**1.1**		**2.5**		1.0	U	1.0	U	1	U	**2.1**		1	U	1	U	1	U	1	U
45	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	**1.4**		1.0	U	**1.4**		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
48	Isopropylbenzene	**33**		**26**		**37**		**32**		**64**		**31**		**30**		**5.6**		**46**		1	U	**3.4**		**27**		**27**	
49	n-Propylbenzene	**18**		**15**		**22**		**13**		**36**		**19**		**7.3**		**4.1**		**46**		1	U	**3.3**		**35**		**29**	
50	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	**6.7**		**4.4**		**5.7**		**5.0**		**6.3**		**6.6**		**5.5**		**5.9**		**7.7**		**1.5**		**5.4**		**8**		**5.6**	
52	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	**2.5**		**1.6**		**2.2**		**2.0**		**2.8**		**2.9**		**1.8**		**1.2**		**5.3**		1	U	1	U	**4.1**		**3**	
54	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																											
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	**Method OR-DEQ**																										
59	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			O		O		O		O		O		O		O		O		O		O		O		O		O		O	
4			S177M		T176J		U235P		V208J		W391L		Y314M		Z225S		Z960Y		AH27A		AU45O		BC30B		BH96A		BR64A		CB85C	
5			4/1/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99		2/16/00		5/23/00		8/30/00	
63	56	**PRIORITY POLLUTANT**																												
64	57	**METALS (mg/L)**																												
65	58	Arsenic (7060)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
66	59	Chromium (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
67	60	Copper (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
68	61	Lead (7421)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
69	62	Nickel (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
70	63	Zinc (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
71	64																													
72	65	**MAJOR IONS AND CONVENTIONALS**																												
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**330**	J2	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																											
2																											
3		O		O		O		O		O		O		O		O		O		O		O		O		O	
4		CL03P		CT55I		DE87A		DM30S		DW48E		ED23F		EM75L		ER93A		EY88A		FF88I		FL66B		FU45T		FY82Q	
5		11/8/00		2/13/01		6/5/01		8/14/01		11/29/01		2/26/02		6/25/02		08/26/02		11/11/02		2/13/03		5/9/03		8/28/03		10/24/03	
63	**PRIORITY POLLUTANT**																										
64	**METALS (mg/L)**																										
65	Arsenic (7060)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
66	Chromium (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
67	Copper (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
68	Lead (7421)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
69	Nickel (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
70	Zinc (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
71																											
72	**MAJOR IONS AND CONVENTIONALS**																										
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
81	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			O		O		O		O		O		O		O		O		O		O		O		O		O		O	
4			S177M		T176J		U235P		V208J		W391L		Y314M		Z225S		Z960Y		AH27A		AU45O		BC30B		BH96A		BR64A		CB85C	
5			4/1/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99		2/16/00		5/23/00		8/30/00	
87	80	**FIELD PARAMETERS**																												
88	81	pH (avg)	6.77		6.82		6.86		6.79		6.43		6.39		6.32		6.62		5.57		6.70		6.27		6.62		6.39		5.85	
89	82	Temperature (° C) (avg)	12.3		15.7		13.6		14.2		14.1		15.0		13.3		14.6		15.0		17.8		13.0		15.0		15.6		15.9	
90	83	Conductivity (um/hos)	413		412		389		471		437		531		183		366		391		441		337		427		413		409	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		3.36		1.68		1.41		2.44		1.85		1.93		1.58		1.58		1.82		1.16	
92	85																													
93	86	**DIOXINS AND FURANS (ng/L)**																												
94	87	**Method 8290**																												
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																														
121																														
122																														

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																											
2																											
3		O		O		O		O		O		O		O		O		O		O		O		O		O	
4		CL03P		CT55I		DE87A		DM30S		DW48E		ED23F		EM75L		ER93A		EY88A		FF88I		FL66B		FU45T		FY82Q	
5		11/8/00		2/13/01		6/5/01		8/14/01		11/29/01		2/26/02		6/25/02		08/26/02		11/11/02		2/13/03		5/9/03		8/28/03		10/24/03	
87	**FIELD PARAMETERS**																										
88	pH (avg)	5.70		6.27		6.43		6.80		6.62		6.27		6.43		6.18		6.79		6.67		6.39		6.85		6.62	
89	Temperature (° C) (avg)	13.4		16.5		14.5		15.9		12.5		15.3		17.3		17.3		14.0		14.7		14		17.9		14.9	
90	Conductivity (um/hos)	437		445		510		563		536		500		471		464		592		431		327		514		467	
91	Dissolved oxygen (mg/L) (avg)	0.39		2.15		2.40		1.89		4.34		7.41		4.16		2.18		1.93		0		2.01		0.88		3.07	
92																											
93	**DIOXINS AND FURANS (ng/L)**																										
94	**Method 8290**																										
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																											
121																											
122																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			O		O		O		O		O		O		O		O		O		O		O		O		O		O	
4			S177M		T176J		U235P		V208J		W391L		Y314M		Z225S		Z960Y		AH27A		AU45O		BC30B		BH96A		BR64A		CB85C	
5			4/1/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99		2/16/00		5/23/00		8/30/00	
6																														
123		**PAHs (µg/L)**																												
124		**EPA Method SW8270 SIM**																												
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		**0.47**		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		**0.31**		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		**0.92**		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		**0.28**	M	NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																											
2																											
3		O		O		O		O		O		O		O		O		O		O		O		O		O	
4		CL03P		CT55I		DE87A		DM30S		DW48E		ED23F		EM75L		ER93A		EY88A		FF88I		FL66B		FU45T		FY82Q	
5		11/8/00		2/13/01		6/5/01		8/14/01		11/29/01		2/26/02		6/25/02		08/26/02		11/11/02		2/13/03		5/9/03		8/28/03		10/24/03	
123	**PAHs (µg/L)**																										
124	**EPA Method SW8270 SIM**																										
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			R		R		R		R		R		R		R		R		R		R		R		R		R		R	
4			S177N		T176K		U235Q		V208K		W391M		Y314N		Z225T		Z960Z		AH27B		AU45P		BC30C		BH96Y		BR64B		CB85D	
5			4/1/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99		2/16/00		5/23/00		8/30/00	
6																														
7	1	**CHLORINATED PHENOLS (µg/L)**																												
8	2	**EPA Method SW8040**																												
9	3	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16	10																													
17	11	**SEMIVOLATILES (µg/L)**																												
18	12	**EPA Method SW8270**																												
19	13	Phenol	**18**		**8.4**		2.0	U	2.0	U	2.0	U	**6.1**		**22**		**16**		**3.8**		**6.3**		2.0	U	2.0	U	2.0	U	**8.4**	
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.6**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	**4.0**	J2	**2.8**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.0**		1.0	U	1.0	U	1.0	U
33	27																													
34	28	**VOLATILES (µg/L)**																												
35	29	**EPA Method SW8260**																												
36	30	Acetone	5.0	U	**13**		**6.9**		5.0	U	**11**		**8.9**		**17**		15	U	**7.5**		5.0	U	5.0	U	14	U	5.0	U	**22**	
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	15	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
39	33	Benzene	**410**		**990**		**4.7**		1.0	U	**2.5**		**160**		**120**		**740**		**57**		**120**		1.0	U	**2.1**		**9.3**		**120**	
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	2.9		1.0	U	1.0	U	1.0	U	**6.0**		**3.5**		3.0	U	1.0	U	**6.0**		1.0	U	**1.2**		1.0	U	**6.3**	
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**14**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	1.0	U	2.9		1.0	U	1.0	U	1.0	U	**6.4**		**2.1**		**4.9**		1.0	U	**6.9**		1.0	U	1.0	U	1.0	U	**5.8**	
45	39	o-Xylene	1.0	U	1.8		1.0	U	1.0	U	1.0	U	**1.2**		1.0	U	3.0	U	1.0	U	**1.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.5**		**1.4**		**15**		1.0	U	**1.4**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**3.5**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
48	42	Isopropylbenzene	**2.6**		**16**		**5.1**	J2	1.0	U	**12**		**43**		**37**		**46**		**11**		**43**		1.0	U	**8.4**		**4.8**		**33**	
49	43	n-Propylbenzene	**1.7**		**3.7**		**1.6**		1.0	U	**2.4**		**19**		**19**		**51**		**3.9**		19	U	1.0	U	**5.4**		**1.2**		**18**	
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.0		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
51	45	sec-Butylbenzene	**2.7**		**5.4**		**2.0**	J2	1.0	U	**3.2**		**5.1**	J2	**5.0**		**4.8**		**3.2**		**6.0**		1.0	U	**2.5**		**3.0**		**5.6**	
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
53	47	n-Butylbenzene	1.0	U	3.0		1.0	U	1.0	U	1.0	U	**2.3**		**1.4**		**16**		**1.0**		2.5	U	1.0	U	1.0	U	1.0	U	2.0	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	15	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56	49																													
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																												
58	51	**Method OR-DEQ**																												
59	52	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62	55																													

BZTO104(e)022649

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																											
2																											
3		R		R		R		R		R		R		R		R		R		R		R		R		R	
4		CL03Q		CT55J		DE87B		DM30T		DW48F		ED23G		EM75M		ER93B		EY88B		FF88J		FL66C		FU45U		FY82R	
5		11/8/00		2/13/01		6/5/01		8/14/01		11/29/01		2/26/02		6/25/02		08/26/02		11/11/02		2/13/03		5/9/03		8/28/03		10/24/03	
6																											
7	**CHLORINATED PHENOLS (µg/L)**																										
8	**EPA Method SW8040**																										
9	Pentachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																											
17	**SEMIVOLATILES (µg/L)**																										
18	**EPA Method SW8270**																										
19	Phenol	**6.4**		2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.1	U	2.2	U	2	U	2	U	2	U	2	U
20	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U
21	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U
22	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.2	U	3.3	U	3	U	3	U	3	U	3	U
23	Benzoic Acid	10	U	10	U	10	U	10	U	30	U	50	U	50	U	53	U	54	U	50	U	50	U	50	U	10	U
24	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U
25	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U
26	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	5.4	U	5	U	5	U	5	U	5	U
27	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	5.4	U	5	U	5	U	5	U	5	U
28	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U
29	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U
30	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U
31	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.3	U	5.4	U	5	U	5	U	5	U	5	U
32	bis(2-Ethylhexyl)phthalate	1.0	U	**1.6**		1.0	U	**5.4**		1.0	U	4.0	U	4.0	U	4.3	U	4.3	U	1	U	1	U	1	U	1	U
33																											
34	**VOLATILES (µg/L)**																										
35	**EPA Method SW8260**																										
36	Acetone	**12**			R	5.0	U	**10**		**5.0**		5.0	U	**11**		**14**		5	U	**7.4**		5	U	**18**	J	**16**	
37	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
38	2-Butanone	**5.0**	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U
39	Benzene	**77**		**36**		**3.1**		**13**		1.0	U	**41**		1.0	U	**32**		**7.7**		1	U	1	U	1	U	1	U
40	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	**3.6**		**3.0**		**2.9**		**2.8**		**1.5**		1.0	U	1.0	U	**2.9**		**1.6**		1	U	1	U	**2.4**		**2.5**	
42	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	**14**		**3.8**	
43	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	**2.4**		**1.8**		**4.1**		**3.4**		**1.6**		1.0	U	1.0	U	**3.5**		**1.4**		1	U	1	U	**26**	J	**9.4**	
45	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
46	1,3,5-Trimethylbenzene	1.0	U	1.0	U	**1.1**		1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
47	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
48	Isopropylbenzene	**24**		**11**		**26**		**30**		**17**		**2.6**		**7.3**		**36**		**34**		**8.8**		1	U	**46**		**43**	
49	n-Propylbenzene	**14**		**5.1**		**9.1**		**16**		**6.8**		1.0	U	1.0	U	**14**		**20**		**3.3**		1	U	**37**		**20**	
50	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
51	sec-Butylbenzene	**4.4**		**3.4**		**4.7**		**3.8**		**2.9**		**2.3**		**2.2**		**5.4**		**4.7**		**2**		**1.4**		**6.8**		**4.3**	
52	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U	1	U	1	U
53	n-Butylbenzene	1.3	U	1.0	U	1.4	U	1.0	U	1.0	U	1.0	U	1.0	U	2.2	U	**2**		1	U	1	U	**3.9**		**1.7**	
54	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U	5	U	5	U
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																											
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
58	**Method OR-DEQ**																										
59	**TPH-Diesel**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
60	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
61	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
62																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			R		R		R		R		R		R		R		R		R		R		R		R		R		R	
4			S177N		T176K		U235Q		V208K		W391M		Y314N		Z225T		Z960Z		AH27B		AU45P		BC30C		BH96Y		BR64B		CB85D	
5			4/1/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99		2/16/00		5/23/00		8/30/00	
63	56	**PRIORITY POLLUTANT**																												
64	57	**METALS (mg/L)**																												
65	58	Arsenic (7060)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
66	59	Chromium (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
67	60	Copper (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
68	61	Lead (7421)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
69	62	Nickel (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
70	63	Zinc (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
71	64																													
72	65	**MAJOR IONS AND CONVENTIONALS**																												
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**340**	J2	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86	79																													

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																											
2																											
3		R		R		R		R		R		R		R		R		R		R		R		R		R	
4		CL03Q		CT55J		DE87B		DM30T		DW48F		ED23G		EM75M		ER93B		EY88B		FF88J		FL66C		FU45U		FY82R	
5		11/8/00		2/13/01		6/5/01		8/14/01		11/29/01		2/26/02		6/25/02		08/26/02		11/11/02		2/13/03		5/9/03		8/28/03		10/24/03	
63	**PRIORITY POLLUTANT**																										
64	**METALS (mg/L)**																										
65	Arsenic (7060)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
66	Chromium (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
67	Copper (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
68	Lead (7421)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
69	Nickel (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
70	Zinc (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
71																											
72	**MAJOR IONS AND CONVENTIONALS**																										
73	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
81	Chloride (mg/L) (EPA 325.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			R		R		R		R		R		R		R		R		R		R		R		R		R		R	
4			S177N		T176K		U235Q		V208K		W391M		Y314N		Z225T		Z960Z		AH27B		AU45P		BC30C		BH96Y		BR64B		CB85D	
5			4/1/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99		2/16/00		5/23/00		8/30/00	
87	80	**FIELD PARAMETERS**																												
88	81	pH (avg)	6.66		6.78		6.72		6.84		6.60		6.55		6.36		6.06		5.72		6.87		6.86		6.75		6.42		6.10	
89	82	Temperature (° C) (avg)	12.8		15.8		14.1		14.3		14.8		15.0		13.5		14.4		15.2		16.5		15.7		14.1		15.8		15.0	
90	83	Conductivity (um/hos)	503		629		1007		319		510		591		179		246		471		566		578		533		502		560	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		3.54		1.35		1.16		2.27		1.61		2.26		1.33		0.93		2.10		1.90	
92	85																													
93	86	**DIOXINS AND FURANS (ng/L)**																												
94	87	**Method 8290**																												
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																														
121																														
122																														

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																											
2																											
3		R		R		R		R		R		R		R		R		R		R		R		R		R	
4		CL03Q		CT55J		DE87B		DM30T		DW48F		ED23G		EM75M		ER93B		EY88B		FF88J		FL66C		FU45U		FY82R	
5		11/8/00		2/13/01		6/5/01		8/14/01		11/29/01		2/26/02		6/25/02		08/26/02		11/11/02		2/13/03		5/9/03		8/28/03		10/24/03	
87	**FIELD PARAMETERS**																										
88	pH (avg)	5.91		6.43		6.88		7.00		6.68		5.95		6.64		6.75		NM		6.88		6.23		7.01		6.75	
89	Temperature (° C) (avg)	13.5		15.4		14.5		15.1		14.2		14.5		15.2		15.8		NM		14.6		13.7		17		15.5	
90	Conductivity (um/hos)	571		661		694		628		600		170		591		631		NM		598		244		630		644	
91	Dissolved oxygen (mg/L) (avg)	0.69		2.01		1.49		1.26		4.02		7.80		4.86		1.19		NM		0		3.12		0.44		3.62	
92																											
93	**DIOXINS AND FURANS (ng/L)**																										
94	**Method 8290**																										
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																											
121																											
122																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1																														
2																														
3			R		R		R		R		R		R		R		R		R		R		R		R		R		R	
4			S177N		T176K		U235Q		V208K		W391M		Y314N		Z225T		Z960Z		AH27B		AU45P		BC30C		BH96Y		BR64B		CB85D	
5			4/1/97		7/15/97		10/22/97		1/28/98		5/19/98		8/18/98		11/13/98		2/17/99		5/17/99		9/22/99		12/7/99		2/16/00		5/23/00		8/30/00	
6																														
123		**PAHs (µg/L)**																												
124		**EPA Method SW8270 SIM**																												
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
1																											
2																											
3		R		R		R		R		R		R		R		R		R		R		R		R		R	
4		CL03Q		CT55J		DE87B		DM30T		DW48F		ED23G		EM75M		ER93B		EY88B		FF88J		FL66C		FU45U		FY82R	
5		11/8/00		2/13/01		6/5/01		8/14/01		11/29/01		2/26/02		6/25/02		08/26/02		11/11/02		2/13/03		5/9/03		8/28/03		10/24/03	
123	**PAHs (µg/L)**																										
124	**EPA Method SW8270 SIM**																										
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J
1										
2										
3			OX8D		OX8D		OX8D		OX8D	
4			FY72F		0402086-05		0408026-10		0411066-07	
5			10/22/03		2/18/04		8/04/04		11/11/04	
6										
7	1	**CHLORINATED PHENOLS (µg/L)**								
8	2	**EPA Method SW8040**								
9	3	Pentachlorophenol	**0.62**		**1.31**		NA		4.78	U
10	4	2,4,6-Trichlorophenol	NA		NA		NA		NA	
11	5	2,3,6-Trichlorophenol	NA		NA		NA		NA	
12	6	2,4,5-Trichlorophenol	NA		NA		NA		NA	
13	7	2,3,4-Trichlorophenol	NA		NA		NA		NA	
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA	
15	9	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA	
16	10									
17	11	**SEMIVOLATILES (µg/L)**								
18	12	**EPA Method SW8270**								
19	13	Phenol	NA		NA		2	U	1.91	U
20	14	4-Methylphenol	NA		NA		10	U	9.55	U
21	15	Isophorone	NA		NA		1	U	0.955	U
22	16	2,4-Dimethylphenol	NA		NA		3	U	2.87	U
23	17	Benzoic Acid	NA		NA		20	U	19.1	U
24	18	Naphthalene	NA		NA		1	U	0.955	U
25	19	2-Methylnaphthalene	NA		NA		1	U	0.955	U
26	20	2,4,6-Trichlorophenol	NA		NA		5	U	4.78	U
27	21	2,4,5-Trichlorophenol	NA		NA		5	U	4.78	U
28	22	Acenaphthene	NA		NA		1	U	0.955	U
29	23	Dibenzofuran	NA		NA		1	U	0.955	U
30	24	Fluorene	NA		NA		1	U	0.955	U
31	25	Pentachlorophenol	NA		NA		5	U	NA	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA		4.47	U	**2.18**	
33	27									
34	28	**VOLATILES (µg/L)**								
35	29	**EPA Method SW8260**								
36	30	Acetone	NA		NA		50	U	50	U
37	31	Carbon Disulfide	NA		NA		2	U	2	U
38	32	2-Butanone	NA		NA		10	U	10	U
39	33	Benzene	NA		NA		0.3	U	0.3	U
40	34	Bromoform	NA		NA		1	U	1	U
41	35	Toluene	NA		NA		1	U	1	U
42	36	Ethylbenzene	NA		NA		1	U	1	U
43	37	Styrene	NA		NA		1	U	1	U
44	38	m,p-Xylene	NA		NA		2	U	2	U
45	39	o-Xylene	NA		NA		1	U	1	U
46	40	1,3,5-Trimethylbenzene	NA		NA		1	U	1	U
47	41	1,2,4-Trimethylbenzene	NA		NA		**2.49**	J	**4.05**	
48	42	Isopropylbenzene	NA		NA		1	U	**1.1**	
49	43	n-Propylbenzene	NA		NA		1	U	1	U
50	44	tert-Butylbenzene	NA		NA		1	U	1	U
51	45	sec-Butylbenzene	NA		NA		1	U	1	U
52	46	4-Isopropyltoluene	NA		NA		1	U	1	U
53	47	n-Butylbenzene	NA		NA		1	U	1	U
54	48	Naphthalene	NA		NA		1	U	1	U
55		Methyl tert-butyl ether	NA		NA		1	U	1	U
56	49									
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**								
58	51	**Method OR-DEQ**								
59	52	**TPH-Diesel**	NA		NA		NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA	
62	55									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J
1										
2										
3			OX8D		OX8D		OX8D		OX8D	
4			FY72F		0402086-05		0408026-10		0411066-07	
5			10/22/03		2/18/04		8/04/04		11/11/04	
63	56	**PRIORITY POLLUTANT**								
64	57	**METALS (mg/L)**								
65	58	Arsenic (7060)	NA		NA		**0.0224**		**0.0246**	
66	59	Chromium (6010)	NA		NA		**0.0204**		**0.0305**	
67	60	Copper (6010)	NA		NA		0.01	U	**0.0183**	
68	61	Lead (7421)	NA		NA		**0.00274**		**0.00723**	
69	62	Nickel (6010)	NA		NA		0.005	U	0.005	U
70	63	Zinc (6010)	NA		NA		**0.0238**		**0.034**	
71	64									
72	65	**MAJOR IONS AND CONVENTIONALS**								
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA		**326**		**329**	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA		**7.67**		**6.71**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA	
86	79									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J
1										
2										
3			OX8D		OX8D		OX8D		OX8D	
4			FY72F		0402086-05		0408026-10		0411066-07	
5			10/22/03		2/18/04		8/04/04		11/11/04	
87	80	**FIELD PARAMETERS**								
88	81	pH (avg)	7.00		7.02		6.38		7.02	
89	82	Temperature (° C) (avg)	15.5		14.1		14.6		14.2	
90	83	Conductivity (um/hos)	406		418		605		410	
91	84	Dissolved oxygen (mg/L) (avg)	1.24		20.49		3.01		1.39	
92	85									
93	86	**DIOXINS AND FURANS (ng/L)**								
94	87	**Method 8290**								
95	88	2,3,7,8-TCDF	NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA	
120										
121										
122										

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J
1										
2										
3			OX8D		OX8D		OX8D		OX8D	
4			FY72F		0402086-05		0408026-10		0411066-07	
5			10/22/03		2/18/04		8/04/04		11/11/04	
123		**PAHs (µg/L)**								
124		**EPA Method SW8270 SIM**								
125		Naphthalene	NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		1	U	NA	
128		Acenaphthene	NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA	
130		Anthracene	NA		NA		1	U	NA	
131		Dibenzofuran	NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
2															Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2
3			RW2		RW2		RW2		RW2		RW2		RW2		X		RW2		X		RW2		X		RW2		X
4			AH76G		AU45N		BC30E		BH96F		BR64P		CD97A		CD97B		CL03N		CL03M		CT37L		CT37M		DE87P		DE87O
5			5/20/99		9/23/99		12/7/99		2/17/00		5/25/00		9/13/00		9/13/00		11/9/00		11/9/00		2/13/01		2/13/01		6/6/01		6/6/01
7	1	**CHLORINATED PHENOLS (µg/L)**																									
8	2	**EPA Method SW8040**																									
9	3	Pentachlorophenol	**210**		**7.7**		0.25	U	**300**		**46**		**580**		**630**		**45**		**38**		**21**	J	**19**	J	0.25	U	**0.68**
10	4	2,4,6-Trichlorophenol	**1.9**		0.25	U	0.25	U	**3.1**		0.25	U	**2.3**		**2.5**		0.25	U	0.25	U	NA		NA		NA		NA
11	5	2,3,6-Trichlorophenol	**0.31**		0.25	U	0.25	U	**0.45**		0.25	U	0.48	U	0.51	U	0.25	U	0.25	U	NA		NA		NA		NA
12	6	2,4,5-Trichlorophenol	5.2	U	0.70	U	0.53	U	13	U	1.2	U	10	U	11	U	1.2	U	**1.1**		NA		NA		NA		NA
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**15**		**0.71**		**0.33**		**18**		**8.0**		**42**		**45**		**3.6**		**3.5**		NA		NA		NA		NA
15	9	2,3,4,5-Tetrachlorophenol	**1.8**		**0.91**		0.25	U	**3.4**		**1.3**		**7.0**		**7.8**		**1.3**		**1.2**		NA		NA		NA		NA
16	10																										
17	11	**SEMIVOLATILES (µg/L)**																									
18	12	**EPA Method SW8270**																									
19	13	Phenol	2.0	U	**13**		2.0	U	2.0	U	2.0	U	**170**	J2	**150**	J2	**85**		**97**		**8.1**		**8.0**		2.0	U	2.0
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**6.0**	J2	**5.3**	J2	**14**		**18**		**2.9**		**2.7**		1.0	U	1.0
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	**21**		**22**		10	U	10	U	10	U	10
24	18	Naphthalene	**1.3**		**18**		**3.8**		**9.7**		**3.7**		**16**		**16**		**13**		**14**		**2.5**		**2.2**		1.0	U	1.0
25	19	2-Methylnaphthalene	1.0	U	**33**		**1.8**		**20**		**23**		**44**		**41**		**31**		**32**		**10**		**9.1**		**2.0**		**2.0**
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	**4.5**	J1	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	**25**		5.0	U	**16**	J	**14**	J	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
31	25	Pentachlorophenol	**140**		**9.6**		5.0	U	**680**		**51**		**490**	J2	**440**	J2	**77**		**95**		**26**	J	**30**	J	5.0	U	5.0
32	26	bis(2-Ethylhexyl)phthalate	1.5	U	**1.7**		**1.1**		**1.0**		1.0	U	1.0	U	**2.9**	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
33	27																										
34	28	**VOLATILES (µg/L)**																									
35	29	**EPA Method SW8260**																									
36	30	Acetone	15	U	**17**	M	5.0	U	10	U	5.0	U	**24**	M	**27**	M	**20**		**17**		14	U	13	U	5.0	U	5.0
37	31	Carbon Disulfide	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
38	32	2-Butanone	15	U	**22**	M	5.0	U	**23**	M	5.0	U	**24**		**28**		**30**		**24**		5.0	U	5.0	U	5.0	U	5.0
39	33	Benzene	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**2.8**		**2.7**		**1.2**		**1.2**		1.0	U	1.0
40	34	Bromoform	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
41	35	Toluene	3.0	U	**2.6**		1.0	U	1.0	U	1.0	U	**2.1**		**2.2**		2.0	U	**1.5**		1.0	U	1.0	U	1.0	U	1.0
42	36	Ethylbenzene	**25**		**45**		**13**		**22**		**3.9**		**28**		**27**		**27**		**29**		**4.8**		**4.3**		1.0	U	1.0
43	37	Styrene	3.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
44	38	m,p-Xylene	**61**		**120**		**25**		**53**		**8.2**		**78**		**76**		**78**		**81**		**10**		**9.6**		1.0	U	1.0
45	39	o-Xylene	**20**		**37**		**11**		**26**		**2.6**		**28**		**28**		**15**		**15**		**2.1**		**2.2**		1.0	U	1.0
46	40	1,3,5-Trimethylbenzene	**100**		**91**		**42**		**120**		**49**		**100**		**100**		**58**		**66**		**12**		**11**		1.0	U	1.0
47	41	1,2,4-Trimethylbenzene	**370**		**330**		**110**		**360**		**150**		**180**	M	**190**	M	**200**		**220**		**42**		**40**		**3.6**		**3.8**
48	42	Isopropylbenzene	**78**		**65**		**29**		**79**		**52**		**70**		**73**		**57**		**68**		**30**		**29**		**11**		**11**
49	43	n-Propylbenzene	**130**		**77**		**38**		**110**		**86**		**88**		**90**		**75**		**90**		**37**		**34**		**12**		**12**
50	44	tert-Butylbenzene	**4.0**		**3.1**		1.0	U	**3.5**		**3.3**		**3.2**		**3.4**		**2.1**		**2.8**		**1.2**		**1.3**		1.0	U	1.0
51	45	sec-Butylbenzene	**18**		**17**		**5.5**		**21**		**16**		**15**		**16**		**11**		**14**		**4.9**		**4.7**		**1.6**		**1.7**
52	46	4-Isopropyltoluene	**19**		**13**		**4.6**		**20**		**7.7**		**11**		**12**		**5.7**		**7.6**		1.0	U	1.0	U	1.0	U	1.0
53	47	n-Butylbenzene	**20**		17.0	U	5.2	U	**24**		**15**	M	**16**	M	**17**	M	**11**		14	U	**3.5**		**3.4**		1.2	U	1.2
54	48	Naphthalene	**18**		**30**		**8.3**		**25**		**7.0**		**28**		**30**		**22**		**25**		5.0	U	5.0	U	5.0	U	5.0
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																										
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																									
58	51	**Method OR-DEQ**																									
59	52	**TPH-Diesel**	**2.2**		**2.6**		**1.2**		**2.4**		**1.5**		**3.4**		**3.8**		**5.2**		**5.0**		**1.7**		**1.7**		**0.86**		**0.88**
60	53	**TPH-D Motor Oil**	0.50	U	0.50	U	0.50	U	NA		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50
61	54	**TPH-Gasoline**	**5.7**		**10**		**1.9**		NA		**5.1**		**7.7**		**7.7**		**4.6**		**5.0**		**1.8**		**1.7**		**0.60**		**0.66**
62	55																										

BZTO104(e)022661

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
2					Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2	
3			RW2		W		RW2		W		RW2		W		RW2		W		RW2		W		RW2		W	
4			DM30I		DM30H		DW29E		DW29C		ED30D		ED30A		EN00D		EN00A		ER93G		ER93I		EZ17D		EZ17B	
5			8/13/01		8/13/01		11/27/01		11/27/01		2/27/02		2/27/02		6/27/02		6/27/02		08/27/02		08/27/02		11/13/02		11/13/02	
7	**CHLORINATED PHENOLS (µg/L)**																									
8	**EPA Method SW8040**																									
9	Pentachlorophenol		**5.0**		**5.0**		**1.7**		**1.8**		NA		NA		NA		NA		NA		NA		NA		NA	
10	2,4,6-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																										
17	**SEMIVOLATILES (µg/L)**																									
18	**EPA Method SW8270**																									
19	Phenol	U	2.0	U	2.0	U	2.0	UJ	2.0	U	**10**		**10**		2.0	U	**5.9**	J	**15**		**13**		2.2	U	2.2	U
20	4-Methylphenol	U	1.0	U	1.0	U	1.0	U	1.0	U	**3.8**	J	1.0	UJ	1.0	U	**1.1**		**1.8**		**1.5**		1.1	U	1.1	U
21	Isophorone	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1.1	U	1.1	U
22	2,4-Dimethylphenol	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.8	U	3.3	U	3.3	U	3.3	U
23	Benzoic Acid	U	10	U	10	U	30	U	30	U	50	U	50	U	50	U	50	U	62	U	54	U	54	U	54	U
24	Naphthalene	U	**1.6**		**1.8**		**1.8**	J	**1.8**	J	**7.4**		**7.0**		**5.2**	J	**6.4**	J	**5.9**		**5.6**		**4.1**		**3.7**	
25	2-Methylnaphthalene		**6.5**		**6.4**		**5.7**	J	**7.0**	J	**18**		**17**		**11**	J	**14**	J	**15**		**13**		**11**		**9.6**	
26	2,4,6-Trichlorophenol	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	6.2	U	5.4	U	5.4	U	5.4	U
27	2,4,5-Trichlorophenol	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	6.2	U	5.4	U	5.4	U	5.4	U
28	Acenaphthene	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1.1	U	1.1	U
29	Dibenzofuran	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1.1	U	1.1	U
30	Fluorene	U	1.0	U	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	U	1.1	U	1.1	U	1.1	U
31	Pentachlorophenol	U	5.0	U	5.0	U	5.0	UJ	5.0	U	**8.6**		**8.2**		**76**		**75**		**26**	J	**36**	J	**37**		**35**	
32	bis(2-Ethylhexyl)phthalate	U	1.0	U	1.0	U	1.0	UJ	1.0	U	4.0	U	4.0	U	4.0	U	4.0	U	5	U	4.3	U	4.3	U	4.3	U
33																										
34	**VOLATILES (µg/L)**																									
35	**EPA Method SW8260**																									
36	Acetone	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.1	U	**5.2**		**6.4**		5	U	5	U
37	Carbon Disulfide	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U
38	2-Butanone	U	**5.2**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U	5	U	5	U
39	Benzene	U	1.0	U	1.0	U	1.0	U	1.0	U	**2.5**		**2.5**		**2.3**		**2.2**		**3.4**		**3.3**		**3.4**		**3.1**	
40	Bromoform	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U
41	Toluene	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.6**		**1.7**		1.0	U	1.0	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	U	**3.1**		**3.4**		**1.5**		**1.4**		**27**		**28**		**15**		**15**		**13**		**13**		**7.9**		**7.3**	
43	Styrene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	U	**6.8**		**7.8**		**3.0**		**2.6**		**59**		**62**		**32**		**33**		**38**		**34**		**17**		**16**	
45	o-Xylene	U	1.0	U	**1.6**		1.0	U	1.0	U	**14**		**14**		1.0	U	1.0	U	**6.5**		**5.9**		**2.3**		**2.2**	
46	1,3,5-Trimethylbenzene	U	**6.5**		**6.7**		**3.9**		**3.7**		**44**		**44**		**21**		**23**		**27**		**24**		**9.8**		**9.6**	
47	1,2,4-Trimethylbenzene		**23**		**26**		**13**		**12**		**150**		**150**		**62**		**62**		**84**		**78**		**37**		**36**	
48	Isopropylbenzene		**24**		**25**		**30**		**30**		**54**		**51**		**46**		**44**		**44**		**45**		**37**		**36**	
49	n-Propylbenzene		**28**		**29**		**36**		**37**		**76**		**73**		**58**		**57**		**58**		**59**		**46**		**45**	
50	tert-Butylbenzene	U	**1.1**	M	**1.0**		**1.1**		**1.1**		**2.0**		**1.9**		**1.6**		**1.4**		**1.7**		**1.8**		**1.6**		**1.5**	
51	sec-Butylbenzene		**3.9**		**4.1**		**4.7**		**4.7**		**9.6**		**9.5**		**8.4**		**8.2**		**8.3**		**8.4**		**6.7**		**6.3**	
52	4-Isopropyltoluene	U	1.0	U	1.0	U	1.0	U	1.0	U	**4.4**		**4.3**		**2.1**		**2.0**		**2.6**		**2.6**		**1.3**		**1.2**	
53	n-Butylbenzene	U	**3.0**	M	**3.3**		**3.7**	M	**3.9**	M	**9.0**		**9.0**		6.5	U	6.1	U	7.6	U	7	U	**4.9**	M	**4.8**	M
54	Naphthalene	U	5.0	U	**5.0**		5.0	U	5.0	U	**15**		**16**		**8.7**		**8.5**		**10**		**9.9**		**6.3**		**5.7**	
55	Methyl tert-butyl ether		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
56																										
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																									
58	**Method OR-DEQ**																									
59	**TPH-Diesel**		**1.4**		**1.2**		**1.4**		**1.4**		**1.9**	J	**0.89**	J	**1.8**		**1.9**		**1.7**		**1.6**		**1.3**		**1.3**	
60	**TPH-D Motor Oil**	U	0.50	U	0.50	U	0.50	U	NA		0.50	U	0.50	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U	0.5	U
61	**TPH-Gasoline**		**1.3**		**1.3**		**1.2**		NA		**4.0**	J	**3.8**		**2.6**		**2.6**		**2.9**		**3**		**2.1**		**2.4**	
62																										

BZTO104(e)022662

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX
2				Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2									
3		RW2		W		RW2		W		RW2		W		RW2		W		RW2		RW2		Dup of RW2		RW2	
4		FF65I		FF65K		FL41O		FL41Q		FU31F		FU31E		FY82D		FY82A		0402113-04		0406059-02		0406059-01		0408036-06	
5		2/11/03		2/11/03		5/7/03		5/7/03		8/27/03		8/27/03		10/23/03		10/23/03		2/23/04		6/9/04		6/9/04		8/05/04	
7	**CHLORINATED PHENOLS (µg/L)**																								
8	**EPA Method SW8040**																								
9	Pentachlorophenol	NA		NA		NA		NA		**10**		NA		NA		NA		**8.51**		NA		NA		NA	
10	2,4,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
16																									
17	**SEMIVOLATILES (µg/L)**																								
18	**EPA Method SW8270**																								
19	Phenol	2	U	2	U	2	U	2	U	2.1	U	2.1	U	2	U	2	U	1.98	U	2.05	U	1.95	U	2	U
20	4-Methylphenol	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	9.89	U	10.2	U	9.75	U	10	U
21	Isophorone	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	0.989	U	1.02	U	0.975	U	1	U
22	2,4-Dimethylphenol	3	U	3	U	3	U	3.1	U	3.1	U	3.1	U	3	U	3	U	2.97	U	3.07	U	2.92	U	3	U
23	Benzoic Acid	50	U	50	U	50	U	51	U	52	U	52	U	10	U	10	U	19.8	U	20.5	U	19.5	U	20	U
24	Naphthalene	**4.9**		**5.3**		**4.2**		**4**		**1.3**		**1.7**		**1.8**		**1.3**		0.989	U	**1.56**		**1.69**		**1.58**	
25	2-Methylnaphthalene	**13**		**14**		**13**		**12**		**4.8**	J	**6.2**	J	**7.2**	J	**5.4**	J	0.989	U	**5.41**		**6.08**		**5.49**	
26	2,4,6-Trichlorophenol	5	U	5	U	5	U	5.1	U	5.2	U	5.2	U	5	U	5	U	4.95	U	5.12	U	4.87	U	5	U
27	2,4,5-Trichlorophenol	5	U	5	U	5	U	5.1	U	5.2	U	5.2	U	5	U	5	U	4.95	U	5.12	U	4.87	U	5	U
28	Acenaphthene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	0.989	U	1.02	U	0.975	U	1	U
29	Dibenzofuran	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	0.989	U	1.02	U	0.975	U	1	U
30	Fluorene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	0.989	U	1.02	U	0.975	U	1	U
31	Pentachlorophenol	**28**		**33**		**12**		**12**		**5.5**		**6.9**		**8.1**		**6.4**		4.95	U	**47.3**		**46.7**		**12.9**	
32	bis(2-Ethylhexyl)phthalate	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	0.989	U	1.02	U	0.975	U	1	U
33																									
34	**VOLATILES (µg/L)**																								
35	**EPA Method SW8260**																								
36	Acetone	5	U	5	U	5	U	**6.2**	M	5	U	5	U	5	U	5	U	50	U	50	U	50	U	50	U
37	Carbon Disulfide	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	2	U	2	U	2	U	2	U
38	2-Butanone	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	10	U	10	U	10	U	10	U
39	Benzene	**2.4**		**2.4**		**3.4**		**3.8**		**5.1**		**5.4**		**3.6**		**3.4**		**5.5**		**3.57**		**3.32**		**3.88**	
40	Bromoform	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
41	Toluene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
42	Ethylbenzene	**8.2**		**8.1**		**9.5**		**10**		**4.2**		**4.2**		**2.6**		**2.7**		**10.5**		**3.41**		**3.97**		**6.19**	
43	Styrene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
44	m,p-Xylene	**15**		**14**		**12**		**13**		**7**		**7.4**		**4.3**		**4.5**		**4.66**		**3.34**		**3.08**		**9.61**	
45	o-Xylene	**2.4**		**2.2**		1	U	1	U	1	U	1	U	1	U	1	U	**1.67**		1	U	1	U	**2.75**	
46	1,3,5-Trimethylbenzene	**14**		**13**		**19**		**19**		**8.6**		**8.5**		**4.4**		**5.1**		**18.1**		**6.98**		**7.1**		**11.5**	
47	1,2,4-Trimethylbenzene	**46**		**44**		**59**		**62**		**28**		**29**		**16**		**17**		**61**		**20.5**		**19.8**		**36**	
48	Isopropylbenzene	**50**		**51**		**41**		**45**		**30**		**29**		**28**		**29**		**36.5**		**39.3**		**41**		**60.9**	
49	n-Propylbenzene	**60**		**62**		**56**		**60**		**40**		**39**		**35**		**36**		**55.3**		**60.8**		**62.7**		**68.1**	
50	tert-Butylbenzene	**1.7**		**1.8**		**1.8**		**2**		**1.4**		**1.3**		**1.2**		**1.2**		1	U	**1.56**		**1.64**		**1.75**	
51	sec-Butylbenzene	**8**		**8.1**		**8.2**		**8.8**		**5.9**		**5.7**		**5.1**		**5.4**		**7.63**		**8.48**		**8.82**		**10.7**	
52	4-Isopropyltoluene	**1.5**		**1.4**		**1.9**		**2**		**1**		**1**		1	U	1	U	**1.85**		1	U	1	U	**1.25**	
53	n-Butylbenzene	**6**	M	**6**	M	**6.5**		**6.8**		**4.4**		**4.2**		**3.6**		**3.9**		**4.54**		**4.62**		**4.5**		**5.36**	
54	Naphthalene	**6.2**		**6.3**		**6.9**		**7.5**		5	U	5	U	5	U	5	U	**3.26**		**5.64**		**6.03**		**2.99**	
55	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		1	U	1	U	1	U	1	U
56																									
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																								
58	**Method OR-DEQ**																								
59	**TPH-Diesel**	**1.7**		**1.8**		**1.5**		**1.5**		**1.1**		**1**		**0.73**		**0.72**		**1.04**		**1.64**		**1.45**		**1.42**	
60	**TPH-D Motor Oil**	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.493	U	0.517	U	0.5	U	0.499	U
61	**TPH-Gasoline**	**2.5**		**2.6**		**2.2**		**2.4**		**1.6**		**1.6**		**1.2**		**1.2**		**2.6**		**1.72**		**1.83**		**1.72**	
62																									

BZTO104(e)022663

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BY	BZ	CA	CB	CC	CD
2		Dup of RW2				Dup of RW2	
3		W		RW2		W	
4		0408036-03		0411051-04		0411051-01	
5		8/05/04		11/9/04		11/9/04	
7	**CHLORINATED PHENOLS (µg/L)**						
8	**EPA Method SW8040**						
9	Pentachlorophenol	NA		5.06	U	4.92	U
10	2,4,6-Trichlorophenol	NA		NA		NA	
11	2,3,6-Trichlorophenol	NA		NA		NA	
12	2,4,5-Trichlorophenol	NA		NA		NA	
13	2,3,4-Trichlorophenol	NA		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	NA		NA		NA	
15	2,3,4,5-Tetrachlorophenol	NA		NA		NA	
16							
17	**SEMIVOLATILES (µg/L)**						
18	**EPA Method SW8270**						
19	Phenol	2	U	2.02	U	1.97	U
20	4-Methylphenol	10	U	10.1	U	9.84	U
21	Isophorone	1	U	1.01	U	0.984	U
22	2,4-Dimethylphenol	3	U	3.04	U	2.95	U
23	Benzoic Acid	20	U	20.2	U	19.7	U
24	Naphthalene	**1.87**		1.01	U	0.984	U
25	2-Methylnaphthalene	**6.18**		**2.22**		**2.67**	
26	2,4,6-Trichlorophenol	5	U	5.06	U	4.92	U
27	2,4,5-Trichlorophenol	5	U	5.06	U	4.92	U
28	Acenaphthene	1	U	1.01	U	0.984	U
29	Dibenzofuran	1	U	1.01	U	0.984	U
30	Fluorene	1	U	1.01	U	0.984	U
31	Pentachlorophenol	**13.5**		**1.84**		**2.12**	
32	bis(2-Ethylhexyl)phthalate	1	U	1.01	U	0.984	U
33							
34	**VOLATILES (µg/L)**						
35	**EPA Method SW8260**						
36	Acetone	50	U	50	U	50	U
37	Carbon Disulfide	2	U	2	U	2	U
38	2-Butanone	10	U	10	U	10	U
39	Benzene	**3.84**	J	**1**		**1.06**	
40	Bromoform	1	U	1	U	1	U
41	Toluene	1	U	1	U	1	U
42	Ethylbenzene	**5.97**	J	**1.89**		**2.06**	
43	Styrene	1	U	1	U	1	U
44	m,p-Xylene	**8.88**	J	2	U	2	U
45	o-Xylene	**2.51**	J	**1.7**		**1.82**	
46	1,3,5-Trimethylbenzene	**10.2**	J	**1.03**		**1.31**	
47	1,2,4-Trimethylbenzene	**33.8**	J	**4.51**		**5.6**	
48	Isopropylbenzene	**64.8**	J	**57.3**		**62.4**	
49	n-Propylbenzene	**69.7**	J	**72.2**		**77.6**	
50	tert-Butylbenzene	**1.82**	J	**1.48**		**1.66**	
51	sec-Butylbenzene	**10.7**	J	**7.84**		**9.22**	
52	4-Isopropyltoluene	**1.1**	J	1	U	1	U
53	n-Butylbenzene	**5.13**	J	**4.91**		**6.09**	
54	Naphthalene	**2.74**	J	1	U	1	U
55	Methyl tert-butyl ether	1	U	1	U	1	U
56							
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**						
58	**Method OR-DEQ**						
59	**TPH-Diesel**	**1.42**		**0.904**		**0.991**	
60	**TPH-D Motor Oil**	0.493	U	0.477	U	0.491	U
61	**TPH-Gasoline**	**1.8**		**1.18**		**1.23**	
62							

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2															Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2
3			RW2		RW2		RW2		RW2		RW2		RW2		X		RW2		X		RW2		X		RW2		X
4			AH76G		AU45N		BC30E		BH96F		BR64P		CD97A		CD97B		CL03N		CL03M		CT37L		CT37M		DE87P		DE87O
5			5/20/99		9/23/99		12/7/99		2/17/00		5/25/00		9/13/00		9/13/00		11/9/00		11/9/00		2/13/01		2/13/01		6/6/01		6/6/01
63	56	**PRIORITY POLLUTANT**																									
64	57	**METALS (mg/L)**																									
65	58	Arsenic (7060)	**0.034**		**0.025**		**0.022**		**0.032**		**0.036**		**0.022**		**0.022**		**0.021**		**0.021**		**0.016**		**0.016**		**0.017**		**0.016**
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
67	60	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.005**		**0.007**		0.002	U	**0.004**		0.002	U	0.002	U	**0.003**		0.002
68	61	Lead (7421)	**0.001**		**0.001**		0.001	U	0.001	U	0.001	U	**0.001**		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
70	63	Zinc (6010)	**0.016**		**0.042**		**0.025**		**0.031**		**0.016**		**0.022**	J2	**0.030**	J2	**0.116**		**0.122**		**0.022**		**0.022**		**0.058**	J	**0.189**
71	64																										
72	65	**MAJOR IONS AND CONVENTIONALS**																									
73	66	Calcium (mg/L) (6010)	**30.0**		NA		NA		NA		NA		NA		NA		NA		NA		**39.8**		**36.8**		**36.5**		**40.7**
74	67	Magnesium (mg/L) (6010)	**9.90**		NA		NA		NA		NA		NA		NA		NA		NA		**17.1**		**15.8**		**17.2**		**19.1**
75	68	Potassium (mg/L) (6010)	**2.5**		NA		NA		NA		NA		NA		NA		NA		NA		**2.4**		**2.1**		**3.1**		**3.0**
76	69	Sodium (mg/L) (6010)	**7.68**		NA		NA		NA		NA		NA		NA		NA		NA		**12.6**		**11.7**		**12.6**		**13.6**
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**140**		NA		NA		NA		NA		NA		NA		NA		NA		**220**		**220**		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	NA		NA		NA		NA		NA		NA		NA		NA		1.0	U	1.0	U	NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**140**		NA		NA		NA		NA		NA		NA		NA		NA		**220**		**220**		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**190**		**190**		**160**		**150**		**160**		**390**		**360**		**320**		**310**		**290**		**280**		**300**	J	**290**
81	74	Chloride (mg/L) (EPA 325.2)	**4.7**		**8.8**		**6.7**		**6.6**		**4.2**		**9.1**	J2	**7.4**	J2	**4.7**		**5.0**		**8.9**		**8.5**		**7.7**		**7.4**
82	75	N-Nitrate (mg-N/L) (Calculated)	**0.017**		NA		NA		NA		NA		NA		NA		NA		NA		0.010	U	0.010	U	NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	0.010	U	NA		NA		NA		NA		NA		NA		NA		NA		**0.018**		**0.016**		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.017**		NA		NA		NA		NA		NA		NA		NA		NA		0.010	U	0.010	U	NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	**9.3**		NA		NA		NA		NA		NA		NA		NA		NA		**5.2**		**4.3**		NA		NA
86	79																										

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																										
2					Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2	
3			RW2		W		RW2		W		RW2		W		RW2		W		RW2		W		RW2		W	
4			DM30I		DM30H		DW29E		DW29C		ED30D		ED30A		EN00D		EN00A		ER93G		ER93I		EZ17D		EZ17B	
5			8/13/01		8/13/01		11/27/01		11/27/01		2/27/02		2/27/02		6/27/02		6/27/02		08/27/02		08/27/02		11/13/02		11/13/02	
6																										
63	**PRIORITY POLLUTANT**																									
64	**METALS (mg/L)**																									
65	Arsenic (7060)		**0.019**		**0.020**		**0.018**		**0.022**		**0.020**		**0.022**		**0.019**		**0.020**		**0.021**		**0.021**		0.05	U	0.05	U
66	Chromium (6010)	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	Copper (6010)	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	**0.008**	J	0.002	UJ
68	Lead (7421)	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.001**		**0.001**		0.02	U	0.02	U
69	Nickel (6010)	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	Zinc (6010)	J	**0.020**	J	**0.028**	J	**0.010**		**0.013**		**0.043**	J	**0.016**	J	**0.015**	J	**0.037**	J	**0.034**	J	**0.02**	J	**0.022**		**0.017**	
71																										
72	**MAJOR IONS AND CONVENTIONALS**																									
73	Calcium (mg/L) (6010)		**39.0**		**41.0**		**39.4**		**41.6**		**38.9**		**37.5**		**42.3**		**43.3**		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)		**17.1**		**17.8**		**16.4**		**17.5**		**16.2**		**15.3**		**17.0**		**17.5**		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)		**2.8**		**2.8**		**2.4**		**2.4**		**2.5**		**2.2**		**2.3**		**2.3**		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)		**12.3**		**12.9**		**11.7**		**12.4**		**11.2**		**10.9**		**12.0**		**12.3**		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		**220**		**200**		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		1.0	U	1.0	U	NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		NA		NA		NA		NA		**220**		**200**		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	J	**270**	J	**290**	J	**260**		**280**		**270**		**290**		**250**		**270**		**270**		**270**		**270**		**270**	
81	Chloride (mg/L) (EPA 325.2)		**8.9**		**8.2**		**5.5**		**5.7**		**24**	J	**4.1**	J	**6.1**		**5.8**		**4.6**		**5.1**		**4.8**		**4.6**	
82	N-Nitrate (mg-N/L) (Calculated)		NA		NA		NA		NA		**0.019**		0.010	U	NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		NA		NA		NA		NA		**0.014**	J	**0.038**	J	NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		NA		NA		NA		NA		**0.033**		**0.028**		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)		NA		NA		NA		NA		**6.3**	J	**9.8**	J	NA		NA		NA		NA		NA		NA	
86																										

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX
1																									
2				Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2									
3		RW2		W		RW2		W		RW2		W		RW2		W		RW2		RW2		Dup of RW2		RW2	
4		FF65I		FF65K		FL41O		FL41Q		FU31F		FU31E		FY82D		FY82A		0402113-04		0406059-02		0406059-01		0408036-06	
5		2/11/03		2/11/03		5/7/03		5/7/03		8/27/03		8/27/03		10/23/03		10/23/03		2/23/04		6/9/04		6/9/04		8/05/04	
63	**PRIORITY POLLUTANT**																								
64	**METALS (mg/L)**																								
65	Arsenic (7060)	**0.019**		**0.018**		**0.019**		**0.019**		**0.018**		**0.019**		**0.019**		**0.018**		**0.022**		**0.019**		**0.019**		**0.0194**	
66	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	**0.0076**		**0.0136**		**0.0144**		**0.0152**	
67	Copper (6010)	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.01	U	0.01	U	0.01	U	0.01	U
68	Lead (7421)	0.001	U	0.001	U	0.001	U	**0.002**		0.001	U	0.001	U	0.001	U	0.001	U	**0.0051**		0.0001	U	0.0001	U	0.0001	U
69	Nickel (6010)	**0.01**		0.01	U	**0.01**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U
70	Zinc (6010)	**0.013**	J	**0.016**	J	**0.067**		**0.064**		**0.013**		**0.014**		**0.062**	J	**0.008**	J	**0.0724**		**0.0105**		**0.011**		0.01	U
71																									
72	**MAJOR IONS AND CONVENTIONALS**																								
73	Calcium (mg/L) (6010)	**41.8**		**41.3**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
74	Magnesium (mg/L) (6010)	**16.4**		**16.2**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
75	Potassium (mg/L) (6010)	**2.5**		**2.6**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
76	Sodium (mg/L) (6010)	**11.7**		**11.7**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	**240**		**240**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1	U	1	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**240**		**240**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**260**		**260**		**270**		**270**		**290**		**280**		**230**		**250**		**237**		**254**		**276**		**258**	
81	Chloride (mg/L) (EPA 325.2)	**4.4**		**4.4**		**4.4**		**4.4**		**4.3**		**4.2**		**5.2**		**4.9**		**3.8**		**4.16**		**3.74**		**3.95**	
82	N-Nitrate (mg-N/L) (Calculated)	0.01	U	**0.015**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	**0.041**		**0.043**		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.037**	J	**0.058**	J	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	**3**		2.5	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
86																									

BZTO104(e)022667

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BY	BZ	CA	CB	CC	CD
1							
2		Dup of RW2				Dup of RW2	
3		W		RW2		W	
4		0408036-03		0411051-04		0411051-01	
5		8/05/04		11/9/04		11/9/04	
63	**PRIORITY POLLUTANT**						
64	**METALS (mg/L)**						
65	Arsenic (7060)	**0.02**		**0.0202**		**0.0207**	
66	Chromium (6010)	**0.0143**		**0.0129**		**0.0197**	
67	Copper (6010)	0.01	U	0.01	U	0.01	U
68	Lead (7421)	0.0001	U	0.00014	UJ	**0.00372**	J
69	Nickel (6010)	0.005	U	**0.0113**		**0.0412**	
70	Zinc (6010)	0.01	U	0.0116	UJ	**0.0306**	J
71							
72	**MAJOR IONS AND CONVENTIONALS**						
73	Calcium (mg/L) (6010)	NA		NA		NA	
74	Magnesium (mg/L) (6010)	NA		NA		NA	
75	Potassium (mg/L) (6010)	NA		NA		NA	
76	Sodium (mg/L) (6010)	NA		NA		NA	
77	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)	**254**		**266**		**265**	
81	Chloride (mg/L) (EPA 325.2)	**3.82**		**8.68**		**6.63**	
82	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA	
85	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA	
86							

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2															Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2
3			RW2		RW2		RW2		RW2		RW2		RW2		X		RW2		X		RW2		X		RW2		X
4			AH76G		AU45N		BC30E		BH96F		BR64P		CD97A		CD97B		CL03N		CL03M		CT37L		CT37M		DE87P		DE87O
5			5/20/99		9/23/99		12/7/99		2/17/00		5/25/00		9/13/00		9/13/00		11/9/00		11/9/00		2/13/01		2/13/01		6/6/01		6/6/01
87	80	**FIELD PARAMETERS**																									
88	81	pH (avg)	6.63		6.65		6.58		6.67		6.56		6.19		6.19		5.55		5.54		6.33		6.33		6.66		6.65
89	82	Temperature (° C) (avg)	14.2		14.7		13.1		14.4		15.0		15.6		15.6		12.7		12.7		12.6		12.7		13.6		13.6
90	83	Conductivity (um/hos)	294		292		260		278		365		463		463		513		513		475		479		573		573
91	84	Dissolved oxygen (mg/L) (avg)	1.61		1.37		2.46		0.68		0.74		11.94		11.94		0.53		0.55		0.90		0.95		0.83		0.82
92	85																										
93	86	**DIOXINS AND FURANS (ng/L)**																									
94	87	**Method 8290**																									
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																											
121																											
122																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																										
2					Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2	
3			RW2		W		RW2		W		RW2		W		RW2		W		RW2		W		RW2		W	
4			DM30I		DM30H		DW29E		DW29C		ED30D		ED30A		EN00D		EN00A		ER93G		ER93I		EZ17D		EZ17B	
5			8/13/01		8/13/01		11/27/01		11/27/01		2/27/02		2/27/02		6/27/02		6/27/02		08/27/02		08/27/02		11/13/02		11/13/02	
87	**FIELD PARAMETERS**																									
88	pH (avg)		6.70		6.68		6.50		6.5		6.27		6.27		6.47		6.47		6.52		6.56		6.19		6.17	
89	Temperature (° C) (avg)		15.7		15.6		13.1		13.1		13.5		13.5		14.5		14.5		13.9		13.9		13.6		13.6	
90	Conductivity (um/hos)		455		454		458		458		422		422		450		448		408		409		461		461	
91	Dissolved oxygen (mg/L) (avg)		0.52		0.37		3.34		3.22		7.06		7.05		4.87		4.72		0.60		0.31		0.55		0.34	
92																										
93	**DIOXINS AND FURANS (ng/L)**																									
94	**Method 8290**																									
95	2,3,7,8-TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																										
121																										
122																										

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX
2				Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2									
3		RW2		W		RW2		W		RW2		W		RW2		W		RW2		RW2		Dup of RW2		RW2	
4		FF65I		FF65K		FL41O		FL41Q		FU31F		FU31E		FY82D		FY82A		0402113-04		0406059-02		0406059-01		0408036-06	
5		2/11/03		2/11/03		5/7/03		5/7/03		8/27/03		8/27/03		10/23/03		10/23/03		2/23/04		6/9/04		6/9/04		8/05/04	
87	**FIELD PARAMETERS**																								
88	pH (avg)	6.84		6.84		6.87		6.86		6.69		6.71		6.52		6.53		6.36		5.41		5.41		6.09	
89	Temperature (° C) (avg)	13.9		13.9		13.6		13.5		15.5		15.7		13.8		13.8		14.3		15.2		15.2		15.7	
90	Conductivity (um/hos)	542		542		392		390		414		411		392		392		348		395		395		530	
91	Dissolved oxygen (mg/L) (avg)	2.24		2.24		3.22		3.32		0.98		0.82		2.37		2.15		1.48		1.12		1.12		3.58	
92																									
93	**DIOXINS AND FURANS (ng/L)**																								
94	**Method 8290**																								
95	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																									
121																									
122																									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BY	BZ	CA	CB	CC	CD
1							
2		Dup of RW2				Dup of RW2	
3		W		RW2		W	
4		0408036-03		0411051-04		0411051-01	
5		8/05/04		11/9/04		11/9/04	
87	**FIELD PARAMETERS**						
88	pH (avg)	6.15		6.6		6.7	
89	Temperature (° C) (avg)	16		13.6		13.7	
90	Conductivity (um/hos)	531		356		359	
91	Dissolved oxygen (mg/L) (avg)	3.58		2.14		2.17	
92							
93	**DIOXINS AND FURANS (ng/L)**						
94	**Method 8290**						
95	2,3,7,8-TCDF	NA		NA		NA	
96	Total TCDF	NA		NA		NA	
97	2,3,7,8-TCDD	NA		NA		NA	
98	Total TCDD	NA		NA		NA	
99	1,2,3,7,8-PeCDF	NA		NA		NA	
100	2,3,4,7,8-PeCDF	NA		NA		NA	
101	Total PeCDF	NA		NA		NA	
102	1,2,3,7,8-PeCDD	NA		NA		NA	
103	Total PeCDD	NA		NA		NA	
104	1,2,3,4,7,8-HxCDF	NA		NA		NA	
105	1,2,3,6,7,8-HxCDF	NA		NA		NA	
106	2,3,4,6,7,8-HxCDF	NA		NA		NA	
107	1,2,3,7,8,9-HxCDF	NA		NA		NA	
108	Total HxCDF	NA		NA		NA	
109	1,2,3,4,7,8-HxCDD	NA		NA		NA	
110	1,2,3,6,7,8-HxCDD	NA		NA		NA	
111	1,2,3,7,8,9-HxCDD	NA		NA		NA	
112	Total HxCDD	NA		NA		NA	
113	1,2,3,4,6,7,8-HpCDF	NA		NA		NA	
114	1,2,3,4,7,8,9-HpCDF	NA		NA		NA	
115	Total HpCDF	NA		NA		NA	
116	1,2,3,4,6,7,8-HpCDD	NA		NA		NA	
117	Total HpCDD	NA		NA		NA	
118	OCDF	NA		NA		NA	
119	OCDD	NA		NA		NA	
120							
121							
122							

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2															Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2
3			RW2		RW2		RW2		RW2		RW2		RW2		X		RW2		X		RW2		X		RW2		X
4			AH76G		AU45N		BC30E		BH96F		BR64P		CD97A		CD97B		CL03N		CL03M		CT37L		CT37M		DE87P		DE87O
5			5/20/99		9/23/99		12/7/99		2/17/00		5/25/00		9/13/00		9/13/00		11/9/00		11/9/00		2/13/01		2/13/01		6/6/01		6/6/01
123		**PAHs (µg/L)**																									
124		**EPA Method SW8270 SIM**																									
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
132																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																										
2					Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2	
3			RW2		W		RW2		W		RW2		W		RW2		W		RW2		W		RW2		W	
4			DM30I		DM30H		DW29E		DW29C		ED30D		ED30A		EN00D		EN00A		ER93G		ER93I		EZ17D		EZ17B	
5			8/13/01		8/13/01		11/27/01		11/27/01		2/27/02		2/27/02		6/27/02		6/27/02		08/27/02		08/27/02		11/13/02		11/13/02	
123	**PAHs (µg/L)**																									
124	**EPA Method SW8270 SIM**																									
125	Naphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128	Acenaphthene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131	Dibenzofuran		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
132																			NA		NA					

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX
1																									
2				Dup of RW2				Dup of RW2				Dup of RW2				Dup of RW2									
3		RW2		W		RW2		W		RW2		W		RW2		W		RW2		RW2		Dup of RW2		RW2	
4		FF65I		FF65K		FL41O		FL41Q		FU31F		FU31E		FY82D		FY82A		0402113-04		0406059-02		0406059-01		0408036-06	
5		2/11/03		2/11/03		5/7/03		5/7/03		8/27/03		8/27/03		10/23/03		10/23/03		2/23/04		6/9/04		6/9/04		8/05/04	
123	**PAHs (µg/L)**																								
124	**EPA Method SW8270 SIM**																								
125	Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127	Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1	U
128	Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129	Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130	Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1	U
131	Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
132																									

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	BY	BZ	CA	CB	CC	CD
1							
2		Dup of RW2				Dup of RW2	
3		W		RW2		W	
4		0408036-03		0411051-04		0411051-01	
5		8/05/04		11/9/04		11/9/04	
123	**PAHs (µg/L)**						
124	**EPA Method SW8270 SIM**						
125	Naphthalene	NA		NA		NA	
126	2-Methylnaphthalene	NA		NA		NA	
127	Acenaphthylene	1	U	NA		NA	
128	Acenaphthene	NA		NA		NA	
129	Fluorene	NA		NA		NA	
130	Anthracene	1	U	NA		NA	
131	Dibenzofuran	NA		NA		NA	
132							

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			J3		J3		J3		J3		J3		J3		J3	
4			S177K		T176R		U235L		V224Q		W371M		Y314K		Z225Q	
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98	
6																
7	1	**CHLORINATED PHENOLS (µg/L)**														
8	2	**EPA Method SW8040**														
9	3	Pentachlorophenol	0.25	U	0.25	U	0.25	U	0.25	UJ	**0.36**		0.25	U	0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U
16	10															
17	11	**SEMIVOLATILES (µg/L)**														
18	12	**EPA Method SW8270**														
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
21	15	Isophorone	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U
24	18	Naphthalene	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
25	19	2-Methylnaphthalene	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
28	22	Acenaphthene	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
29	23	Dibenzofuran	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
30	24	Fluorene	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
31	25	Pentachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
33	27															
34	28	**VOLATILES (µg/L)**														
35	29	**EPA Method SW8260**														
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
37	31	Carbon Disulfide	1.0	U	1.0	U	**110**		1.0	U	1.0	U	1.0	U	1.0	U
38	32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
46	40	1,3,5-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
47	41	1,2,4-Trimethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
48	42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
49	43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
51	45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	UJ	1.0	U
52	46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
53	47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA	
56	49															
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**														
58	51	**Method OR-DEQ**														
59	52	**TPH-Diesel**	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA	
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA	
62	55															

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			J3		J3		J3		J3		J3		J3		J3	
4			S177K		T176R		U235L		V224Q		W371M		Y314K		Z225Q	
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98	
63	56	**PRIORITY POLLUTANT**														
64	57	**METALS (mg/L)**														
65	58	Arsenic (7060)	**0.010**		**0.012**		0.05	U	0.05	U	**0.011**		**0.014**		**0.017**	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	**0.014**		**0.018**		**0.012**	
67	60	Copper (6010)	0.002	U	**0.005**		0.002	U	**0.005**		**0.017**		**0.020**		**0.013**	
68	61	Lead (7421)	0.001	U	**0.002**		0.02	U	0.02	U	**0.006**		**0.007**		**0.003**	
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	**0.01**		**0.01**		**0.01**	
70	63	Zinc (6010)	0.004	U	**0.013**		**0.018**		**0.010**		**0.034**	J2	**0.048**		**0.036**	
71	64															
72	65	**MAJOR IONS AND CONVENTIONALS**														
73	66	Calcium (mg/L) (6010)	**94.6**		**101**		**103**		**90.2**		NA		NA		NA	
74	67	Magnesium (mg/L) (6010)	**51.7**		**56.1**		**56.1**		**50.6**		NA		NA		NA	
75	68	Potassium (mg/L) (6010)	**1.8**		**1.9**		**2.0**		**1.6**		NA		NA		NA	
76	69	Sodium (mg/L) (6010)	**22.5**		**23.5**		**23.8**		**22.1**		NA		NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	**470**		**460**	J2	**510**		**470**		NA		NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	1.0	U	1.0	U	1.0	U	1.0	U	NA		NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	**470**		**460**	J2	**510**		**470**		NA		NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NT		**580**	J2	**480**		**510**		**480**		**540**		**470**	
81	74	Chloride (mg/L) (EPA 325.2)	**9.9**		**9.3**		**11**		**12**		**12**		**13**		**12**	
82	75	N-Nitrate (mg-N/L) (Calculated)	0.010	U	0.010	U	**0.013**		**0.016**	J2	NA		NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	**0.012**	J	**0.012**	J2	0.010	U	0.010	UJ	NA		NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	**0.014**		0.010	U	**0.013**		**0.016**	J2	NA		NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	**2.8**	J	2.5	U	2.5	U	2.5	U	NA		NA		NA	
86	79															

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			J3		J3		J3		J3		J3		J3		J3	
4			S177K		T176R		U235L		V224Q		W371M		Y314K		Z225Q	
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98	
87	80	**FIELD PARAMETERS**														
88	81	pH (avg)	6.78		6.80		6.85		6.70		6.53		6.46		6.43	
89	82	Temperature (° C) (avg)	13.9		16.3		13.7		13.4		13.4		14.9		11.9	
90	83	Conductivity (um/hos)	859		765		673		771		788		916		422	
91	84	Dissolved oxygen (mg/L) (avg)	NA		NA		NA		NA		0.74		3.45		2.45	
92	85															
93	86	**DIOXINS AND FURANS (ng/L)**														
94	87	**Method 8290**														
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA	
120																
121																
122																

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3			J3		J3		J3		J3		J3		J3		J3	
4			S177K		T176R		U235L		V224Q		W371M		Y314K		Z225Q	
5			4/2/97		7/16/97		10/22/97		1/29/98		5/19/98		8/18/98		11/12/98	
123		**PAHs (µg/L)**														
124		**EPA Method SW8270 SIM**														
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2					Dup of LW-12D1								Dup of LW12D1														
3			LW12D1		LW120D1		LW12D1		LW12D1		LW12D1		Y		LW12D1		LW12D1		LW12D1		LW12D1		LW12D1		LW12D1		LW12D1
4			AH76C		AH76A		AU45L		BC27S		BH96M		BH96O		BR55B		CB85I		CL03K		CT67E		DE87M		DM52H		DW48J
5			5/20/99		5/20/99		9/23/99		12/9/99		2/18/00		2/18/00		5/22/00		8/31/00		11/10/00		2/15/01		6/6/01		8/15/01		11/29/01
6																											
7	1	**CHLORINATED PHENOLS (µg/L)**																									
8	2	**EPA Method SW8040**																									
9	3	Pentachlorophenol	**28**		**32**		**1.4**		**200**		**0.28**		**0.23**	J1	0.25	UJ	0.25	U	0.25	U	**0.62**		0.25	U	0.25	U	0.25
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	**1.1**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	1.2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	**1.2**		**1.4**		**0.13**	J1	**6.2**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA
15	9	2,3,4,5-Tetrachlorophenol	**1.0**		**1.0**		**0.36**		**8.0**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA
16	10																										
17	11	**SEMIVOLATILES (µg/L)**																									
18	12	**EPA Method SW8270**																									
19	13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
20	14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
21	15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
22	16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0
23	17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	30
24	18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
25	19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
26	20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	**2.2**	J1	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
27	21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	**1.7**	J1	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
28	22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
29	23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
30	24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
31	25	Pentachlorophenol	**110**	J2	**81**	J2	5.0	U	**380**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
32	26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	1.0	U	**1.0**	J1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.0**		1.0	U	1.0
33	27																										
34	28	**VOLATILES (µg/L)**																									
35	29	**EPA Method SW8260**																									
36	30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
37	31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
38	32	2-Butanone	**7.6**		5.0	U	**12**	M	5.0	U	5.0	U	5.0	U	5.0	U	9.5	U	**8.4**		5.0	U	5.0	U	**5.7**		**5.6**
39	33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
40	34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
41	35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
42	36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
43	37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
44	38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
45	39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**1.2**		1.0	U	1.0	U	1.0
46	40	1,3,5-Trimethylbenzene	**11**		**9.7**		**3.6**		**1.5**		1.0	U	1.0	U	**2.4**		**3.3**		**4.8**		**4.4**		**1.9**		**1.5**		**3.4**
47	41	1,2,4-Trimethylbenzene	**46**		**46**		**15**		**4.8**		**5.1**		**4.9**		**15**		**17**		**22**		**23**		**13**		**7.5**		**21**
48	42	Isopropylbenzene	**2.6**		**2.6**		**1.7**		**1.1**		1.0	U	1.0	U	1.0	U	1.0	U	**1.3**		**1.4**		**1.6**		1.0	U	**1.6**
49	43	n-Propylbenzene	**3.9**		**3.8**		**2.4**		**1.3**		1.0	U	1.0	U	**1.5**		**1.5**		**2.2**		**2.5**		**2.0**		1.0	U	**2.8**
50	44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
51	45	sec-Butylbenzene	**1.7**		**1.7**		**1.0**		1.0	U	1.0	U	1.0	U	1.0	U	**1.2**		**1.6**		**1.9**		**1.3**		1.0	U	**2.8**
52	46	4-Isopropyltoluene	**2.0**		**2.0**		**1.3**		1.0	U	1.0	U	1.0	U	1.0	U	**1.1**		**1.6**		**1.9**		1.0	U	1.0	U	**2.2**
53	47	n-Butylbenzene	**1.7**		**1.7**	M	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.4	U	**1.7**	M	1.0	U	1.0	U	2.0
54	48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0
55		Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
56	49																										
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																									
58	51	**Method OR-DEQ**																									
59	52	**TPH-Diesel**	**0.96**		**0.86**		**0.98**		**0.88**		**0.66**		**0.66**		**0.82**		**0.64**		**0.78**		**0.83**		**0.77**		**0.81**		**0.97**
60	53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		NA		NA		0.50	U	NA		NA		NA		NA
61	54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
62	55																										

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF
1						
2						
3			LW12D1		LW12D1	
4			ED34H		EN00K	
5			2/28/02		6/27/02	
6						
7	**CHLORINATED PHENOLS (µg/L)**					
8	**EPA Method SW8040**					
9	Pentachlorophenol	U	0.25	U	**1.6**	
10	2,4,6-Trichlorophenol		NA		NA	
11	2,3,6-Trichlorophenol		NA		NA	
12	2,4,5-Trichlorophenol		NA		NA	
13	2,3,4-Trichlorophenol		NA		NA	
14	2,3,5,6- and 2,3,4,6-Tetrachlorophenol		NA		NA	
15	2,3,4,5-Tetrachlorophenol		NA		NA	
16						
17	**SEMIVOLATILES (µg/L)**					
18	**EPA Method SW8270**					
19	Phenol	U	2.0	U	2.0	U
20	4-Methylphenol	U	1.0	U	1.0	U
21	Isophorone	U	1.0	U	1.0	U
22	2,4-Dimethylphenol	U	3.0	U	3.0	U
23	Benzoic Acid	U	50	U	50	U
24	Naphthalene	U	1.0	U	1.0	U
25	2-Methylnaphthalene	U	1.0	U	1.0	U
26	2,4,6-Trichlorophenol	U	5.0	U	5.0	U
27	2,4,5-Trichlorophenol	U	5.0	U	5.0	U
28	Acenaphthene	U	1.0	U	1.0	U
29	Dibenzofuran	U	1.0	U	1.0	U
30	Fluorene	U	1.0	U	1.0	U
31	Pentachlorophenol	U	5.0	U	5.0	U
32	bis(2-Ethylhexyl)phthalate	U	4.0	U	4.0	U
33						
34	**VOLATILES (µg/L)**					
35	**EPA Method SW8260**					
36	Acetone	U	5.0	U	5.0	U
37	Carbon Disulfide	U	1.0	U	1.0	U
38	2-Butanone		**8.6**		5.0	U
39	Benzene	U	1.0	U	1.0	U
40	Bromoform	U	1.0	U	1.0	U
41	Toluene	U	1.0	U	1.0	U
42	Ethylbenzene	U	1.0	U	1.0	U
43	Styrene	U	1.0	U	1.0	U
44	m,p-Xylene	U	1.0	U	1.0	U
45	o-Xylene	U	1.0	U	1.0	U
46	1,3,5-Trimethylbenzene		**1.5**		1.0	U
47	1,2,4-Trimethylbenzene		**8.5**		**4.7**	
48	Isopropylbenzene		1.0	U	1.0	U
49	n-Propylbenzene		**1.1**		**1.3**	
50	tert-Butylbenzene	U	1.0	U	1.0	U
51	sec-Butylbenzene		1.0	U	**1.1**	
52	4-Isopropyltoluene		1.0	U	1.0	U
53	n-Butylbenzene	U	1.0	U	1.0	U
54	Naphthalene	U	5.0	U	5.0	U
55	Methyl tert-butyl ether		NA		NA	
56						
57	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**					
58	**Method OR-DEQ**					
59	**TPH-Diesel**		**1.2**		**1.0**	
60	**TPH-D Motor Oil**		NA		NA	
61	**TPH-Gasoline**		NA		NA	
62						

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2					Dup of LW-12D1								Dup of LW12D1														
3			LW12D1		LW120D1		LW12D1		LW12D1		LW12D1		Y		LW12D1		LW12D1		LW12D1		LW12D1		LW12D1		LW12D1		LW12D1
4			AH76C		AH76A		AU45L		BC27S		BH96M		BH96O		BR55B		CB85I		CL03K		CT67E		DE87M		DM52H		DW48J
5			5/20/99		5/20/99		9/23/99		12/9/99		2/18/00		2/18/00		5/22/00		8/31/00		11/10/00		2/15/01		6/6/01		8/15/01		11/29/01
63	56	**PRIORITY POLLUTANT**																									
64	57	**METALS (mg/L)**																									
65	58	Arsenic (7060)	**0.017**		**0.017**		**0.039**		**0.034**		**0.020**		**0.020**		**0.030**		**0.033**		**0.019**		**0.022**		**0.020**		**0.017**		**0.014**
66	59	Chromium (6010)	**0.007**		**0.007**		**0.035**		**0.091**		**0.017**		**0.019**		0.005	U	**0.006**		**0.010**		**0.008**		**0.012**		**0.032**		**0.009**
67	60	Copper (6010)	**0.008**		**0.008**		**0.036**		**0.122**		**0.022**		**0.024**		**0.007**		**0.007**		**0.016**		**0.012**		**0.015**		**0.038**		0.012
68	61	Lead (7421)	**0.002**		**0.002**		**0.011**		**0.030**		**0.005**		**0.005**		**0.003**		**0.002**		**0.006**		**0.003**		**0.013**		**0.012**		**0.005**
69	62	Nickel (6010)	0.01	U	0.01	U	0.03	U	**0.07**		**0.02**		**0.02**		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	**0.03**		0.01
70	63	Zinc (6010)	**0.026**		**0.030**		**0.079**		**0.212**		**0.047**		**0.053**		**0.016**		**0.024**		**0.037**		**0.033**		**0.029**		**0.074**		**0.021**
71	64																										
72	65	**MAJOR IONS AND CONVENTIONALS**																									
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		**54.8**		**60.5**		**53.1**		**58.4**
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		**26.2**		**29.5**		**29.0**		**29.4**
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		**0.9**		**1.8**		**1.9**		**1.5**
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		NA		NA		**10.9**		**12.3**		**11.5**		**12.2**
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		**320**		NA		NA		NA
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		1.0	U	NA		NA		NA
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		NA		NA		**320**		NA		NA		NA
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**360**		**360**		**360**		**350**		**350**		**350**		**320**		**320**		**330**		**320**		**340**	J	**320**		**350**
81	74	Chloride (mg/L) (EPA 325.2)	**3.8**		**3.8**		**3.3**		**4.5**		**3.8**		**4.2**		**4.1**		**6.8**		**3.3**		**4.2**	J	**3.7**		**7.8**		**3.7**
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		NA		NA		**5.8**		NA		NA		NA
86	79																										

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF
1						
2						
3			LW12D1		LW12D1	
4			ED34H		EN00K	
5			2/28/02		6/27/02	
63	**PRIORITY POLLUTANT**					
64	**METALS (mg/L)**					
65	Arsenic (7060)		**0.016**		**0.028**	
66	Chromium (6010)		**0.015**		**0.006**	
67	Copper (6010)	U	**0.020**		**0.007**	
68	Lead (7421)		**0.006**		**0.002**	
69	Nickel (6010)	U	0.01	U	0.01	U
70	Zinc (6010)		**0.032**		**0.022**	
71						
72	**MAJOR IONS AND CONVENTIONALS**					
73	Calcium (mg/L) (6010)		**55.1**		**59.3**	
74	Magnesium (mg/L) (6010)		**25.4**		**28.1**	
75	Potassium (mg/L) (6010)		**1.5**		**1.0**	
76	Sodium (mg/L) (6010)		**12.5**		**12.4**	
77	Alkalinity (mg/L CaCO3) (SM 2320)		**260**		NA	
78	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		1.0	U	NA	
79	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)		**260**		NA	
80	Total Dissolved Solids (mg/L) (EPA 160.1)		**330**		**300**	
81	Chloride (mg/L) (EPA 325.2)		**5.2**		**3.8**	
82	N-Nitrate (mg-N/L) (Calculated)		**0.027**		NA	
83	N-Nitrite (mg-N/L) (EPA 354.1)		0.010	U	NA	
84	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)		**0.027**		NA	
85	Sulfate (mg/L) (EPA 375.2)		**5.1**		NA	
86						

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2					Dup of LW-12D1								Dup of LW12D1														
3			LW12D1		LW120D1		LW12D1		LW12D1		LW12D1		Y		LW12D1		LW12D1		LW12D1		LW12D1		LW12D1		LW12D1		LW12D1
4			AH76C		AH76A		AU45L		BC27S		BH96M		BH96O		BR55B		CB85I		CL03K		CT67E		DE87M		DM52H		DW48J
5			5/20/99		5/20/99		9/23/99		12/9/99		2/18/00		2/18/00		5/22/00		8/31/00		11/10/00		2/15/01		6/6/01		8/15/01		11/29/01
87	80	**FIELD PARAMETERS**																									
88	81	pH (avg)	6.96		6.96		7.13		6.96		6.95		6.85		6.95		6.85		5.68		6.82		7.15		7.20		6.92
89	82	Temperature (° C) (avg)	13.2		13.0		14.7		11.9		11.7		11.7		15.0		13.0		12.2		13.1		14.0		14.4		13.3
90	83	Conductivity (um/hos)	486		502		504		346		526		524		495		485		444		454		481		469		434
91	84	Dissolved oxygen (mg/L) (avg)	1.86		1.67		1.01		2.36		1.79		1.43		1.26		1.74		0.93		0.13		2.10		1.96		4.12
92	85																										
93	86	**DIOXINS AND FURANS (ng/L)**																									
94	87	**Method 8290**																									
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
120																											
121																											
122																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF
1						
2						
3			LW12D1		LW12D1	
4			ED34H		EN00K	
5			2/28/02		6/27/02	
87	**FIELD PARAMETERS**					
88	pH (avg)		6.80		7.07	
89	Temperature (° C) (avg)		13.8		14.3	
90	Conductivity (um/hos)		431		410	
91	Dissolved oxygen (mg/L) (avg)		7.61		4.73	
92						
93	**DIOXINS AND FURANS (ng/L)**					
94	**Method 8290**					
95	2,3,7,8-TCDF		NA		NA	
96	Total TCDF		NA		NA	
97	2,3,7,8-TCDD		NA		NA	
98	Total TCDD		NA		NA	
99	1,2,3,7,8-PeCDF		NA		NA	
100	2,3,4,7,8-PeCDF		NA		NA	
101	Total PeCDF		NA		NA	
102	1,2,3,7,8-PeCDD		NA		NA	
103	Total PeCDD		NA		NA	
104	1,2,3,4,7,8-HxCDF		NA		NA	
105	1,2,3,6,7,8-HxCDF		NA		NA	
106	2,3,4,6,7,8-HxCDF		NA		NA	
107	1,2,3,7,8,9-HxCDF		NA		NA	
108	Total HxCDF		NA		NA	
109	1,2,3,4,7,8-HxCDD		NA		NA	
110	1,2,3,6,7,8-HxCDD		NA		NA	
111	1,2,3,7,8,9-HxCDD		NA		NA	
112	Total HxCDD		NA		NA	
113	1,2,3,4,6,7,8-HpCDF		NA		NA	
114	1,2,3,4,7,8,9-HpCDF		NA		NA	
115	Total HpCDF		NA		NA	
116	1,2,3,4,6,7,8-HpCDD		NA		NA	
117	Total HpCDD		NA		NA	
118	OCDF		NA		NA	
119	OCDD		NA		NA	
120						
121						
122						

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1																											
2					Dup of LW-12D1								Dup of LW12D1														
3			LW12D1		LW120D1		LW12D1		LW12D1		LW12D1		Y		LW12D1		LW12D1		LW12D1		LW12D1		LW12D1		LW12D1		LW12D1
4			AH76C		AH76A		AU45L		BC27S		BH96M		BH96O		BR55B		CB85I		CL03K		CT67E		DE87M		DM52H		DW48J
5			5/20/99		5/20/99		9/23/99		12/9/99		2/18/00		2/18/00		5/22/00		8/31/00		11/10/00		2/15/01		6/6/01		8/15/01		11/29/01
6																											
123		**PAHs (µg/L)**																									
124		**EPA Method SW8270 SIM**																									
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	B	AB	AC	AD	AE	AF
1						
2						
3			LW12D1		LW12D1	
4			ED34H		EN00K	
5			2/28/02		6/27/02	
123	**PAHs (µg/L)**					
124	**EPA Method SW8270 SIM**					
125	Naphthalene		NA		NA	
126	2-Methylnaphthalene		NA		NA	
127	Acenaphthylene		NA		NA	
128	Acenaphthene		NA		NA	
129	Fluorene		NA		NA	
130	Anthracene		NA		NA	
131	Dibenzofuran		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

		LW-12D2		LW-12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2	
		AH76B		AU45M		BC27T		BH96N		BR55A		CB85J		CL03L		CT67F		DE87R		DM52F		DW48I		ED34I		EN00L	
		5/20/99		9/23/99		12/9/99		2/18/00		5/22/00		8/31/00		11/10/00		2/15/01		6/6/01		8/15/01		11/29/01		2/28/02		6/27/02	
1	**CHLORINATED PHENOLS (µg/L)**																										
2	**EPA Method SW8040**																										
3	Pentachlorophenol	**0.91**		0.25	U	**3.7**		0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	**1.7**		0.25	U	0.25	U	NA		0.25	U
4	2,4,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
5	2,3,6-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
6	2,4,5-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
7	2,3,4-Trichlorophenol	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U	**0.22**	J1	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U	**0.50**		0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		NA		NA		NA	
10																											
11	**SEMIVOLATILES (µg/L)**																										
12	**EPA Method SW8270**																										
13	Phenol	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
14	4-Methylphenol	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
15	Isophorone	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
16	2,4-Dimethylphenol	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
17	Benzoic Acid	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	30	U	50	U	50	U
18	Naphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
19	2-Methylnaphthalene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
20	2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
21	2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
22	Acenaphthene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
23	Dibenzofuran	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
24	Fluorene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
25	Pentachlorophenol	5.0	U	5.0	U	**2.8**	J1	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
26	bis(2-Ethylhexyl)phthalate	1.0	U	1.0	U	**20**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	**5.4**	
27																											
28	**VOLATILES (µg/L)**																										
29	**EPA Method SW8260**																										
30	Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
31	Carbon Disulfide	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
32	2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
33	Benzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
34	Bromoform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
35	Toluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
36	Ethylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
37	Styrene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
38	m,p-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
39	o-Xylene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
40	1,3,5-Trimethylbenzene	**1.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
41	1,2,4-Trimethylbenzene	**3.7**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
42	Isopropylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
43	n-Propylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
44	tert-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
45	sec-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
46	4-Isopropyltoluene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
47	n-Butylbenzene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
48	Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
	Methyl tert-butyl ether	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
49																											
50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**																										
51	**Method OR-DEQ**																										
52	**TPH-Diesel**	0.25	U	0.25	U	**0.32**		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NA		NA		NA		0.25	U	NA	
53	**TPH-D Motor Oil**	NA		NA		NA		NA		NA		NA		0.50	U	NA		NA		NA		NA		NA		NA	
54	**TPH-Gasoline**	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
55																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			LW-12D2		LW-12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2	
4			AH76B		AU45M		BC27T		BH96N		BR55A		CB85J		CL03L		CT67F		DE87R		DM52F		DW48I		ED34I		EN00L	
5			5/20/99		9/23/99		12/9/99		2/18/00		5/22/00		8/31/00		11/10/00		2/15/01		6/6/01		8/15/01		11/29/01		2/28/02		6/27/02	
63	56	**PRIORITY POLLUTANT**																										
64	57	**METALS (mg/L)**																										
65	58	Arsenic (7060)	**0.020**		**0.021**		**0.003**		**0.019**		**0.024**		**0.022**		**0.020**		**0.022**		**0.022**		**0.024**		**0.024**		**0.020**		**0.018**	
66	59	Chromium (6010)	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
67	60	Copper (6010)	0.002	U	0.002	U	**0.005**		0.002	U	0.002	U	0.002	U	**0.004**		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
68	61	Lead (7421)	0.001	U	0.001	U	**0.002**		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	**0.002**		0.001	U	0.001	U
69	62	Nickel (6010)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
70	63	Zinc (6010)	**0.007**		0.004	U	**0.306**		**0.009**		0.006	U	0.006	U	0.006	U	**0.009**		0.006	U	0.006	U	0.006	U	0.006	U	0.006	U
71	64																											
72	65	**MAJOR IONS AND CONVENTIONALS**																										
73	66	Calcium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**36.1**		**38.3**		**29.4**		**31.9**		**39.1**		**52.5**	
74	67	Magnesium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**16.4**		**17.3**		**13.7**		**14.0**		**17.3**		**23.0**	
75	68	Potassium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**2.4**		**2.4**		**2.4**		**2.2**		**2.8**		**3.1**	
76	69	Sodium (mg/L) (6010)	NA		NA		NA		NA		NA		NA		NA		**15.0**		**17.6**		**13.5**		**14.0**		**16.8**		**21.7**	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		**220**		NA		NA		NA		**230**		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		1.0	U	NA		NA		NA		1.0	U	NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA		NA		NA		NA		NA		NA		**220**		NA		NA		NA		**230**		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	**340**		**270**		**160**		**290**		**320**		**280**		**280**		**240**		**280**	J	**210**		**210**		**330**		**330**	
81	74	Chloride (mg/L) (EPA 325.2)	**3.9**		**2.7**		**4.7**		**3.9**		**3.7**		**8.2**		**3.3**		**5.6**	J	**3.2**		**7.9**		**3.1**		**24**		**4.1**	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA		NA		NA		NA		NA		NA		0.010	U	NA		NA		NA		0.010	U	NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA		NA		NA		NA		NA		NA		**0.029**	J	NA		NA		NA		**0.042**		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA		NA		NA		NA		NA		NA		**0.031**		NA		NA		NA		**0.048**		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA		NA		NA		NA		NA		NA		**7.3**		NA		NA		NA		**6.5**		NA	
86	79																											

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			LW-12D2		LW-12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2	
4			AH76B		AU45M		BC27T		BH96N		BR55A		CB85J		CL03L		CT67F		DE87R		DM52F		DW48I		ED34I		EN00L	
5			5/20/99		9/23/99		12/9/99		2/18/00		5/22/00		8/31/00		11/10/00		2/15/01		6/6/01		8/15/01		11/29/01		2/28/02		6/27/02	
87	80	**FIELD PARAMETERS**																										
88	81	pH (avg)	6.69		6.81		6.88		6.75		6.61		6.64		5.48		6.56		6.89		6.96		6.68		6.50		6.66	
89	82	Temperature (° C) (avg)	13.8		14.2		11.9		13.0		13.9		13.7		13.3		13.3		13.9		14.0		13.1		13.1		14.2	
90	83	Conductivity (um/hos)	514		391		250		475		468		443		442		429		473		356		375		439		528	
91	84	Dissolved oxygen (mg/L) (avg)	2.40		0.42		2.80		1.42		0		0.52		0.29		0.00		0.50		0.34		3.45		7.16		4.25	
92	85																											
93	86	**DIOXINS AND FURANS (ng/L)**																										
94	87	**Method 8290**																										
95	88	2,3,7,8-TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
96	89	Total TCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
97	90	2,3,7,8-TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
98	91	Total TCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
101	94	Total PeCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
103	96	Total PeCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
108	101	Total HxCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
112	105	Total HxCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
115	108	Total HpCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
117	110	Total HpCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
118	111	OCDF	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
119	112	OCDD	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
120																												
121																												
122																												

BZTO104(e)022691

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1																												
2																												
3			LW-12D2		LW-12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2		LW12D2	
4			AH76B		AU45M		BC27T		BH96N		BR55A		CB85J		CL03L		CT67F		DE87R		DM52F		DW48I		ED34I		EN00L	
5			5/20/99		9/23/99		12/9/99		2/18/00		5/22/00		8/31/00		11/10/00		2/15/01		6/6/01		8/15/01		11/29/01		2/28/02		6/27/02	
6																												
123		**PAHs (µg/L)**																										
124		**EPA Method SW8270 SIM**																										
125		Naphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
126		2-Methylnaphthalene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
127		Acenaphthylene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
128		Acenaphthene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
129		Fluorene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
130		Anthracene	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
131		Dibenzofuran	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW15D		LW15D	
4			BR64T		CL03T	
5			5/25/00		11/9/00	
6						
7	1	**CHLORINATED PHENOLS (µg/L)**				
8	2	**EPA Method SW8040**				
9	3	Pentachlorophenol	**0.33**		0.25	U
10	4	2,4,6-Trichlorophenol	0.25	U	0.25	U
11	5	2,3,6-Trichlorophenol	0.25	U	0.25	U
12	6	2,4,5-Trichlorophenol	0.25	U	0.25	U
13	7	2,3,4-Trichlorophenol	0.25	U	0.25	U
14	8	2,3,5,6- and 2,3,4,6-Tetrachlorophenol	0.25	U	0.25	U
15	9	2,3,4,5-Tetrachlorophenol	0.25	U	0.25	U
16	10					
17	11	**SEMIVOLATILES (µg/L)**				
18	12	**EPA Method SW8270**				
19	13	Phenol	NA		NA	
20	14	4-Methylphenol	NA		NA	
21	15	Isophorone	NA		NA	
22	16	2,4-Dimethylphenol	NA		NA	
23	17	Benzoic Acid	NA		NA	
24	18	Naphthalene	NA		NA	
25	19	2-Methylnaphthalene	NA		NA	
26	20	2,4,6-Trichlorophenol	NA		NA	
27	21	2,4,5-Trichlorophenol	NA		NA	
28	22	Acenaphthene	NA		NA	
29	23	Dibenzofuran	NA		NA	
30	24	Fluorene	NA		NA	
31	25	Pentachlorophenol	NA		NA	
32	26	bis(2-Ethylhexyl)phthalate	NA		NA	
33	27					
34	28	**VOLATILES (µg/L)**				
35	29	**EPA Method SW8260**				
36	30	Acetone	NA		NA	
37	31	Carbon Disulfide	NA		NA	
38	32	2-Butanone	NA		NA	
39	33	Benzene	NA		NA	
40	34	Bromoform	NA		NA	
41	35	Toluene	NA		NA	
42	36	Ethylbenzene	NA		NA	
43	37	Styrene	NA		NA	
44	38	m,p-Xylene	NA		NA	
45	39	o-Xylene	NA		NA	
46	40	1,3,5-Trimethylbenzene	NA		NA	
47	41	1,2,4-Trimethylbenzene	NA		NA	
48	42	Isopropylbenzene	NA		NA	
49	43	n-Propylbenzene	NA		NA	
50	44	tert-Butylbenzene	NA		NA	
51	45	sec-Butylbenzene	NA		NA	
52	46	4-Isopropyltoluene	NA		NA	
53	47	n-Butylbenzene	NA		NA	
54	48	Naphthalene	NA		NA	
55		Methyl tert-butyl ether	NA		NA	
56	49					
57	50	**TOTAL PETROLEUM HYDROCARBONS (mg/L)**				
58	51	**Method OR-DEQ**				
59	52	**TPH-Diesel**	NA		NA	
60	53	**TPH-D Motor Oil**	NA		NA	
61	54	**TPH-Gasoline**	NA		NA	
62	55					

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW15D		LW15D	
4			BR64T		CL03T	
5			5/25/00		11/9/00	
63	56	**PRIORITY POLLUTANT**				
64	57	**METALS (mg/L)**				
65	58	Arsenic (7060)	NA		NA	
66	59	Chromium (6010)	NA		NA	
67	60	Copper (6010)	NA		NA	
68	61	Lead (7421)	NA		NA	
69	62	Nickel (6010)	NA		NA	
70	63	Zinc (6010)	NA		NA	
71	64					
72	65	**MAJOR IONS AND CONVENTIONALS**				
73	66	Calcium (mg/L) (6010)	NA		NA	
74	67	Magnesium (mg/L) (6010)	NA		NA	
75	68	Potassium (mg/L) (6010)	NA		NA	
76	69	Sodium (mg/L) (6010)	NA		NA	
77	70	Alkalinity (mg/L CaCO3) (SM 2320)	NA		NA	
78	71	Carbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
79	72	Bicarbonate (Alkalinity) (mg/L CaCO3) (SM 2320)	NA		NA	
80	73	Total Dissolved Solids (mg/L) (EPA 160.1)	NA		NA	
81	74	Chloride (mg/L) (EPA 325.2)	NA		NA	
82	75	N-Nitrate (mg-N/L) (Calculated)	NA		NA	
83	76	N-Nitrite (mg-N/L) (EPA 354.1)	NA		NA	
84	77	Nitrate + Nitrite (NO2+NO3) (mg-N/L) (EPA 353.2)	NA		NA	
85	78	Sulfate (mg/L) (EPA 375.2)	NA		NA	
86	79					

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW15D		LW15D	
4			BR64T		CL03T	
5			5/25/00		11/9/00	
87	80	**FIELD PARAMETERS**				
88	81	pH (avg)	6.69		6.12	
89	82	Temperature (° C) (avg)	14.6		12.8	
90	83	Conductivity (um/hos)	324		265	
91	84	Dissolved oxygen (mg/L) (avg)	0.67		1.25	
92	85					
93	86	**DIOXINS AND FURANS (ng/L)**				
94	87	**Method 8290**				
95	88	2,3,7,8-TCDF	NA		NA	
96	89	Total TCDF	NA		NA	
97	90	2,3,7,8-TCDD	NA		NA	
98	91	Total TCDD	NA		NA	
99	92	1,2,3,7,8-PeCDF	NA		NA	
100	93	2,3,4,7,8-PeCDF	NA		NA	
101	94	Total PeCDF	NA		NA	
102	95	1,2,3,7,8-PeCDD	NA		NA	
103	96	Total PeCDD	NA		NA	
104	97	1,2,3,4,7,8-HxCDF	NA		NA	
105	98	1,2,3,6,7,8-HxCDF	NA		NA	
106	99	2,3,4,6,7,8-HxCDF	NA		NA	
107	100	1,2,3,7,8,9-HxCDF	NA		NA	
108	101	Total HxCDF	NA		NA	
109	102	1,2,3,4,7,8-HxCDD	NA		NA	
110	103	1,2,3,6,7,8-HxCDD	NA		NA	
111	104	1,2,3,7,8,9-HxCDD	NA		NA	
112	105	Total HxCDD	NA		NA	
113	106	1,2,3,4,6,7,8-HpCDF	NA		NA	
114	107	1,2,3,4,7,8,9-HpCDF	NA		NA	
115	108	Total HpCDF	NA		NA	
116	109	1,2,3,4,6,7,8-HpCDD	NA		NA	
117	110	Total HpCDD	NA		NA	
118	111	OCDF	NA		NA	
119	112	OCDD	NA		NA	
120						
121						
122						

TABLE F-11
PHASE II REMEDIAL INVESTIGATION
GROUNDWATER ANALYTICAL RESULTS - DEEP WELLS
DETECTED CONSTITUENTS
APRIL 1997 - OCTOBER 2003
TIME OIL - NORTHWEST TERMINAL

	A	B	C	D	E	F
1						
2						
3			LW15D		LW15D	
4			BR64T		CL03T	
5			5/25/00		11/9/00	
123		**PAHs (µg/L)**				
124		**EPA Method SW8270 SIM**				
125		Naphthalene	NA		NA	
126		2-Methylnaphthalene	NA		NA	
127		Acenaphthylene	NA		NA	
128		Acenaphthene	NA		NA	
129		Fluorene	NA		NA	
130		Anthracene	NA		NA	
131		Dibenzofuran	NA		NA	