KINDER MORGAN LIQUIDS TERMINAL PERIODIC REVIEW FINAL REPORT

Kinder Morgan Liquids Terminal Harbor Island
Former GATX Terminals Corporation Harbor Island
Seattle, Washington 98134

Cleanup Site ID# 6811
Facility Site ID# 88394523

Northwest Region Office

TOXICS CLEANUP PROGRAM

February 2015

Publication No. 14-09-214

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1. INTRODUCTION

This document is a review by the Washington State Department of Ecology (Ecology) of cleanup actions and monitoring results to ensure that human health and the environment are being protected at the Kinder Morgan Liquids Terminal Harbor Island (KMLT), former GATX Terminals Corporation (GATX) Harbor Island in Seattle (Site). The Site is located at 2720 13th Avenue SW, Seattle, Washington and shown in Figure 1. This review focuses on the last five years from 2010 through 2014 and follows an earlier review published in 2010.

Site cleanup activities are conducted under Consent Decree 00-2-07760-2SEA (CD) between Ecology and GATX, executed on April 4, 2000. KMLT assumed the obligations of the CD with the purchase of the Site in 2001. In addition, the Site is part of Tank Farm Operable Unit 2 (OU2) for the Harbor Island Superfund Site. A copy of the CD and its associated exhibits are included as Appendix A.

This Site is one of three petroleum terminals at Harbor Island, a man-made island and industrial area located at the south side of Elliott Bay at the confluence of the Duwamish River. The three terminals make up one operable unit within Harbor Island and within the US Environmental Protection Agency (EPA) Harbor Island Superfund Site as shown in Figure 2. This review is to satisfy the requirements for the Model Toxics Control Act (MTCA) Periodic Review per Washington Administrative Code (WAC) 173-340-420 and the EPA Five-Year Review for the Harbor Island Superfund Site. The fourth EPA Five-Year Review for Harbor Island Superfund Site is scheduled to be published in September 2015.

The EPA Federal Consent Decree was entered in August 1995 in US v. The Port of Seattle et al relating to claims under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. $ 9601 et seq. for the Harbor Island Superfund Site. Federal Consent Decree Article I, Paragraph 8 identifies operable units within the Harbor Island Superfund Site and recites that the Petroleum Tank Farm Operable Unit is under management of Ecology. The EPA and Ecology have entered into a Memorandum of Understanding dated February 5, 1991 and March 3, 1994 setting forth the duties and responsibilities of each agency with regard to Site management and enforcement activities at the Harbor Island Superfund Site, and see the documents in Appendix B.

Cleanup activities at the Site are being implemented under the Model Toxics Control Act (MTCA) regulations and in coordination with the EPA CERCLA regulations. The cleanup actions are to address and remediate concentrations of petroleum hydrocarbons, related petroleum chemicals and metals in soil and groundwater and to protect adjacent properties and surface waters and the waterways connecting the Duwamish River to Elliott Bay and Puget Sound.

Soil and groundwater cleanup levels (CLs) were developed based on the industrial zoning of the Site and the determination by Ecology that there are no current or planned future uses of groundwater for drinking water purposes. The CLs defined for Site groundwater are intended to be protective of the adjacent surface waters and ecosystems and to prevent dissolved petroleum

hydrocarbons in groundwater from migrating off-Site, which could impact adjacent properties and waterways.

The MTCA cleanup levels for soil are established under WAC 173-340-740. The MTCA groundwater cleanup levels are established under WAC 173-340-720. WAC 173-340-420 (2) requires that Ecology conduct a periodic review every five years under the following conditions:

(a) Whenever the department conducts a cleanup action;

(b) Whenever the department approves a cleanup action under an order, agreed order or consent decree;

(c) As resources permit, whenever the department issues a no further action opinion, and one of the following conditions exists:

1. Institutional controls or financial assurance are required as part of the cleanup;

2. Where the cleanup level is based on a practical quantitation limit; or

3. Where, in the department's judgment, modifications to the default equations or assumptions using Site-specific information would significantly increase the concentration of hazardous substances remaining at the Site after cleanup or the uncertainty in the ecological evaluation or the reliability of the cleanup action is such that additional review is necessary to assure long-term protection of human health and the environment.

When evaluating whether human health and the environment are being protected, the factors the department shall consider include [WAC 173-340-420(4)]:

(a) The effectiveness of ongoing or completed cleanup actions, including the effectiveness of engineered controls and institutional controls in limiting exposure to hazardous substances remaining at the Site;
(b) New scientific information for individual hazardous substances of mixtures present at the Site;
(c) New applicable state and federal laws for hazardous substances present at the Site;
(d) Current and projected Site use;
(e) Availability and practicability of higher preference technologies; and
(f) The availability of improved analytical techniques to evaluate compliance with cleanup levels.

The Department shall publish a notice of all periodic reviews in the Site Register and provide an opportunity for public comment.

2. SUMMARY OF SITE CONDITIONS

2.1 Description

The Kinder Morgan Site is an active 14-acre bulk petroleum storage facility located at 2720 13th Avenue SW on Harbor Island in Seattle, King County, Washington. The Site has operated as a bulk petroleum storage terminal since 1944. The Site and surrounding area are displayed in Figures 1 and 2.

The Site currently stores unleaded gasoline, marine fuel oil, heavy cycle gas oil, and ethanol. The Site consists of five yards referred to as A, B, C, D, and E Yards. Each yard is described below and shown in Figure 3:

- A Yard, located at the southern end of the property, consists of the terminal administrative office, a truck loading rack, and maintenance building;
- B Yard, located north of A Yard, includes 15 aboveground storage tanks (ASTs) and associated piping and is enclosed by a 15-foot-high concrete wall;
- C Yard, located north of D Yard, contains six ASTs and associated piping and is surrounded by a 15-foot-high concrete wall;
- D Yard, located north of B Yard, is composed of a driveway, barrel storage, a maintenance building, is the primary corridor for on-Site utilities, and is surrounded by a 15-foot-high concrete wall; and
- E Yard, located at the north end of the Site, is leased and consists of an office building and vehicle storage facilities.

2.2 History

The Site is located in the highly industrialized north-central section of Harbor Island. The Site began bulk terminal operations in 1944 as a Shell facility. In December 1994, GATX purchased the Site from Shell. In February 2001, KMLT acquired GATX and the Site.

The Site is situated on relatively flat property, with surface elevations ranging from 6 to 11 feet above mean sea level (amsl). There are no surface-water bodies located on the Site. The Site is situated approximately 1,400 feet from the West Waterway and more than 1,000 feet from the East Waterway. The Site is zoned industrial and meets the industrial criteria established under WAC 173-340-745. KMLT has no plans to change the Site from an industrial facility. Ecology and the EPA have determined that there are no current or planned future uses of groundwater beneath Harbor Island for drinking water purposes (Ecology 2000).

The primary source of chemicals of concern (COCs) in soil and groundwater at the Site are from historical releases of petroleum hydrocarbons. The petroleum releases most likely occurred from aboveground storage tanks (ASTs) used for petroleum storage and the associated product piping throughout the 70 years of Site operation.

Historical remedial actions have included the following:

- Removal of 44,000 tons of petroleum impacted soils from the C Yard was performed in 2002 where product piping had failed (KHM Environmental Management Inc. [KHM] 2002).

- Petroleum treatment in the form of passive separate-phase hydrocarbon (SPH) removal was performed on two wells in the A Yard and three wells in the B Yard in 2011 (Antea Group [Antea] 2011a).

- Air sparging/soil vapor extraction was performed in the A Yard for several years (Delta Environmental Consultants, Inc. [Delta] 2007).

- Application of sulfate to surfacial soils was implemented in the B and D Yards in 2013 and currently continue to cleanup total petroleum hydrocarbons in the gasoline range (TPH-gasoline) and benzene (ARCADIS 2012c and ARCADIS 2014b).

2.3 Site Investigations and Sample Results

2.3.1 Investigations

Numerous investigations have been completed at the Site since 1973 to evaluate the nature and extent of petroleum contamination including the spatial distribution of single phase hydrocarbon (SPH) also called product or non-aqueous phase liquids (NAPL) in Site soil and groundwater.

Historical soil, groundwater elevation, and groundwater analytical results are summarized and discussed below and are included on Table 1 through Table 5. Groundwater elevation data through the third quarter 2014 are included on Table 1. Groundwater analytical results through the third quarter 2014 are summarized on Table 2. Biogeochemical groundwater analytical results for measuring cleanup actions and natural attenuation results through the third quarter 2014 are summarized on Table 3. Performance monitoring parameters for the post-sulfate application are provided on Table 4 and select historical soil analytical results are listed on Table 5.

The available historical Site investigation activities and reports for 2010 through 2014 are described below in chronological order:

- *Antea (December 2011).* A Yard Well Installation Report. Installed one monitoring well (MW-26) to delineate the downgradient hydrocarbon impacts within the 13th Avenue SW corridor (Antea 2011b).

- *Antea (December 2011).* E Yard Well Installation Report. Installed four temporary monitoring wells (TMW-E1 through TMW-E4) to determine whether hydrocarbon impacts present were similar to those observed along the 13th Avenue SW corridor and to determine whether these impacts appear to be related to a release that occurred in the E Yard in the late 1990s (Antea 2011c).

- *Antea (February 2012).* E Yard OPLC Cathodic Protection Work Report. Installed two anode wells in the E Yard and collected one composite sample of the soil cuttings from Anode Well #1 in order to analyze a black substance encountered at approximately 5 feet below ground surface (bgs) (Antea 2012).

- *ARCADIS US, Inc. (ARCADIS [August 2012]).* Subsurface investigation of TPH-impacted soil within the B and D Yards. Installed five soil borings (AUS-SB-1 to AUS-SB-5) to estimate lateral and vertical extent of petroleum concentrations (ARCADIS 2012a).

- *ARCADIS (June 2013).* Remedial Action Report – B and D Yards (ARCADIS 2013). Installed six performance monitoring wells (TMW-1 to TMW-6) to evaluate the effectiveness of the sulfate land application to sustain elevated sulfate concentrations in shallow groundwater.

- *ARCADIS (April 2014).* Revised Groundwater Monitoring Plan, Kinder Morgan Liquids Terminals.

2.3.2 Soil Sample Results

Available historical soil analytical results collected pre-remediation (i.e. 1991 – 1994) and post-remediation (i.e., 2002 – 2012) are summarized on Table 5.

Current soil conditions at the site are as follows:

- Recent subsurface investigations in the B and D Yards have not identified any previously unknown areas where residual hydrocarbon concentrations exceed Site cleanup levels.

- Chemicals-of-Concern (COCs) in soil have been addressed through previous remedial efforts, except for those soils that were inaccessible due to the proximity of Site tanks (Above ground Storage Tanks-ASTs) or where impacts were below the water table. These results are discussed in Sections 2.3.3 through 2.3.5 below. Remaining soil impacts appear to be confined to below the water table, and are believed to be the result of groundwater impacts.

2.3.3 Groundwater Sample Results

Groundwater quality monitoring has been conducted at the Site regularly since 2002 for remedial investigations, cleanup monitoring, and to evaluate the presence of any chemicals of concern that may be migrating from the Site.

Groundwater compliance monitoring and sampling is currently performed in accordance with the 2014 Revised Groundwater Monitoring Plan (ARCADIS 2014a) as approved by Ecology on August 13, 2014. Low-flow groundwater sampling techniques are used in accordance with the Technical Revision Request (Delta 2008). The approved 2014 Revised Groundwater Monitoring Plan outlines Site-specific COCs and the required Site cleanup levels.

Groundwater analytical results are compared to historical data to evaluate potential concentration trends. Groundwater elevation and analytical results collected to date at the Site are presented on

Tables 1 and 2. Groundwater elevation contour maps for the Second Quarter 2013 and the Second Quarter 2014 are presented in Figures 4 and 5, respectively.

Groundwater chemicals-of-concern for the Site and their respective cleanup levels (CLs) are included in Section 2.4.5 of this report. Groundwater chemicals-of-concern are reported with concentrations above the Site-specific CLs and include TPH-gasoline (TPH-GRO), benzene and total lead in wells MW-23, MW-24, and TMW-4.

Analytical results are presented below for the Site groundwater chemicals-of-concern collected during the 2010, 2011, 2012, 2013 and 2014 annual groundwater monitoring events (second quarter of each year) and shown in Figures 6 through 10, respectively. Since the last Periodic Review in 2010, groundwater results indicate decreasing or stable conditions for both on-Site and off-Site wells.

The groundwater analytical results collected from 2010 showed all 30 compliance monitoring wells in compliance with the Site-specific cleanup level for TPH-diesel, TPH-heavy oils, toluene, ethylbenzene, and xylenes. The following table includes observed exceedances (above cleanup level concentration) of Site-specific cleanup levels in 2010:

COC	Number of Wells Exceeding CL	Highest Observed Concentration, mg/L	Cleanup Level, mg/L
TPH-gasoline	6	37 milligrams per liter (mg/L)	1
benzene	3	3.1 mg/L	0.071
total lead	4	0.063 mg/L	0.0058

The groundwater analytical results from 2011 had similar concentrations to previous results. Thirty-six wells were monitored in the second quarter of 2011 and all wells were below the Site-specific CLs for TPH-diesel, TPH-heavy oils, toluene, ethylbenzene, and xylenes. The following table includes observed exceedances of Site-specific cleanup levels in 2011:

COC	Number of Wells Exceeding CL	Highest Observed Concentration	Cleanup Level, mg/L
TPH-gasoline	10	27 mg/L	1
benzene	7	4 mg/L	0.071
total lead	3	0.020 mg/L	0.0058

The groundwater results from 2012 showed decreasing concentrations and more wells in compliance with the Site-specific cleanup levels than previous events. Thirty wells were monitored in the second quarter of 2012 and all 30 wells were below cleanup levels for TPH-diesel, TPH-heavy oil, toluene, ethylbenzene, and xylenes. The following table includes observed exceedances of Site-specific cleanup levels in 2012:

COC	Number of Wells Exceeding CL	Highest Observed Concentration	Cleanup Level, mg/L
TPH-gasoline	7	27 mg/L	1
benzene	3	0.39 mg/L	0.071
total lead	3	0.032 mg/L	0.0058

The groundwater results from 2013 showed continued decreases in concentrations and an increase in wells with concentrations below Site-specific cleanup levels. Thirty wells were monitored in the second quarter of 2013 and all 30 wells were in compliance for TPH-diesel, TPH-heavy oils, toluene, ethylbenzene, and xylenes. The following table includes observed exceedances of Site-specific cleanup levels in 2013:

COC	Number of Wells Exceeding CL	Highest Observed Concentration	Cleanup Level, mg/L
TPH-gasoline	5	23 mg/L	1
benzene	1	1.2 mg/L	0.071
total lead	1	0.046 mg/L	0.0058

The groundwater results from 2014 showed continued decreases in concentrations and an increase in wells with concentrations below Site-specific cleanup levels. Twenty-nine wells were monitored in the second quarter of 2014 and all 29 wells were again in below the Site-specific cleanup levels for TPH-diesel, TPH-heavy oils, toluene, ethylbenzene, and xylenes. The following table includes observed exceedances of Site-specific cleanup levels in 2014:

COC	Number of Wells Exceeding CL	Highest Observed Concentration	Cleanup Level, mg/L
TPH-gasoline	5	23 mg/L	1
Benzene	1	1.0 mg/L	0.071
total lead	1	0.027 mg/L	0.0058

The 2010 to 2014 groundwater compliance results show significant improvement and decreasing concentrations of TPH-gasoline, benzene and total lead. All other chemicals of concern (TPH-diesel, TPH-heavy oils, toluene, ethylbenzene, and xylenes) at this Site are in compliance and significantly below their respective Site-specific cleanup levels.

2.3.4 Distribution of Chemicals-of-Concern in Groundwater

This section describes the most recent distribution of COCs in groundwater at the Site, and represents the groundwater monitoring results collected during the third quarter 2014.

Total Petroleum Hydrocarbons

In July 2014, the highest concentration of total petroleum hydrocarbons – gasoline range (TPH-GRO) was detected in a sample collected from well MW-24 and results showed 24 milligrams per liter [mg/L or parts per million] compared to Site cleanup level at 1 mg/L. In July 2014, TPH-GRO was detected above Site cleanup levels in samples collected from seven monitoring wells at well-12, A-27, MW-7, MW-23, MW-24, TMW-5, and TMW-6.

TPH-diesel range organics (DRO) and TPH-heavy oil (HO) have not been detected above the Site cleanup levels in the last five years. The maximum concentration of TPH-DRO and TPH-HO was measured in MW-21 at 1.4 and 0.45 mg/L (milligrams per liter or parts per million), respectively and significantly below Site-specific cleanup level at 10 mg/L.

TPH-diesel and TPH-heavy oil have not been detected above the Site specific cleanup level in any Site wells within the last five years.

Volatile Organic Compounds

The primary volatile organic COC in groundwater is benzene. In July 2014, benzene was detected above Site-specific cleanup level in samples collected from one monitoring well, MW-24 and one well within Yard B. This is a reduction from the total of seven wells that exceeded the Site-specific cleanup level for benzene in 2011.

Metals

Lead, measured as total lead, was identified as a COC in groundwater. It is likely that when compared with dissolved lead analytical results, lead concentrations will not exceed Site-specific cleanup level.

Since January 2010, the highest detected concentration of total lead was 0.063 mg/L in June 2010 at well MW-2, which is located along 13th Avenue SW adjacent to the C Yard. The highest concentration of total lead during the second quarter 2014 annual sampling event was in well MW-8 at 0.027 mg/L above Site cleanup level at 0.0058 mg/L.

The total number of wells with concentrations of total lead has decreased since 2010 from four wells to one well, MW-8.

2.3.5 Groundwater Trend Analysis

This section presents the groundwater chemicals of concern (COCs) results showing the change or changes in concentration over time called trend analysis. The groundwater trend analysis illustrates the decreasing level of concentration of a specific COC over time, and in some cases the fluctuation of a COC concentration.

Trend analyses are presented on Graphs 1 through 6 for monitoring wells A-28R, MW-7, MW-9, MW-14, MW-19 and MW-24. The selected wells are representative of areas along 13th Avenue SW, B Yard, and D Yard. The graphs present TPH-GRO, TPH-diesel, and benzene concentrations over time. See Figures 4 through 10 for the specific location of wells included in the trend analysis.

Since 2010, all wells with detectable concentrations of TPH-GRO and benzene have shown decreasing or stable trends. Groundwater monitoring will continue to provide detailed information regarding the general trend of COC concentrations at the Site.

2.3.6 Separate-Phase Hydrocarbons

Quarterly groundwater monitoring of 44 monitoring wells has been conducted at the Site since 2002 and is summarized in Table 1 showing results through third quarter 2014. Monitoring includes the inspection of wells for sheen or product (SPH), measuring the thickness of any SPH encountered, and removal of SPH by adding absorbent socks in order to decrease the occurrence of SPH and possible migration. Gauging for SPH is performed in conjunction with each groundwater monitoring event. Historically, SPH was observed in nine monitoring wells (wells-12, A-4, A-6, A-16, MW-7, MW-9, MW-21, MW-23, and MW-2); however, within the last five years measureable SPH has decreased significantly, with the 2013 SPH observation at one well A-6.

Hydrocarbon absorbent socks (passive recovery) have been placed in wells with measureable SPH or sheen in order to remove SPH on an as-needed basis. Passive SPH recovery has been used since January 2007 when SPH was encountered, although the last detectable SPH measurement was in October 2013 in monitoring well A-6 at a thickness of 0.04 feet. Well A-6 had the greatest measurable thickness of SPH in December 2005 at 0.95 feet and during this review period 2010-2014 decreased significantly and showed no SPH in 2014. So no presence of SPH in 2014 is a significant cleanup achievement.

2.4 Cleanup Actions

This section discusses cleanup actions (remedial actions) that have been completed at the Site during earlier cleanup work (2002 through 2009) and for this review period (2010 through 2014). Remedial actions are discussed below by area where they occur for Yards A, B, C, and D. No remediation has been conducted in E Yard during 2010 through 2014.

2.4.1 KMLT Site Cleanup Actions 2002 until 2009

A Yard

- *October 2002 through October 2004 – Active SPH Recovery*. Construction Documentation Report (KHM 2002) and Cleanup Status Memorandum (Delta 2004).

- *October 2002 through present – Passive SPH Recovery*. Construction Documentation Report (KHM 2002) and Cleanup Status Memorandum (Delta 2004).

- *December 2006 through November 2010 – Biosparge Barrier for SPH-Impacted Groundwater*. Construction Documentation Report, Bio-Sparge Barrier (Delta 2007).

B Yard

- *April through October 2002 – Surface Excavation and Disposal of Metals-Impacted Soil*. Construction Documentation Report (KHM 2002).

- *April through October 2002 – Subsurface Excavation and Disposal of TPH-Impacted Soil*. Construction Documentation Report (KHM 2002).

- *October 2002 through October 2004 – Active SPH Recovery*. Construction Documentation Report (KHM 2002) and Cleanup Status Memorandum (Delta 2004).

- *October 2002 through present – Passive SPH Recovery*. Construction Documentation Report (KHM 2002) and Cleanup Status Memorandum (Delta 2004).

- *May 2007 – Subsurface Excavation and Disposal of TPH-Impacted Soil*. Eight cubic yards (cy) of soil removed following an additive release. B Yard Additive Release Final Report (Delta 2007).

- *September 2010 – Subsurface Excavation and Disposal of TPH-Impactred Soil*. Removed 23 cy of soil following a jet fuel release. Jet Fuel Release-B Yard Memo (Delta 2010).

C Yard

- *April through October 2002*. Surface excavation and disposal of metals-impacted soil. Construction Documentation Report, Soil and Groundwater Remediation (KHM 2002).

- *April through October 2002*. Subsurface excavation and disposal of TPH-impacted soil. Construction Documentation Report, Soil and Groundwater Remediation (KHM 2002).

- *October 2002 through August 2004*. Air sparge remediation system operation. Construction Documentation Report, Soil and Groundwater Remediation (KHM 2002).

2.4.2 KMLT Site Cleanup Actions 2010 through 2014

B Yard

- *September 2010* – Subsurface Excavation and Disposal of TPH-Impacted Soil and Removed 23 cubic yards of soil following a jet fuel release. Jet Fuel Release-B Yard Memo (Delta 2010).

- *June 2013 – Sulfate Land Application*. Installed 264,000 pounds (lbs.) of gypsum, 42,000 lbs. of Epsom salt, and 374 cubic yards of rock. Remedial Action Report B and D Yards (ARCADIS 2013). The sulfate land application area is presented in Figure 11.

D Yard

- *June 2013. Sulfate land application*. Installed 264,000 lbs. of gypsum, 42,000 lbs. of Epsom salt, and 374 cubic yards of rock. Remedial Action Report B and D Yards (ARCADIS 2013). The sulfate land application area is presented in Figure 11.

2.4.3 KMLT Monitored Natural Attenuation at 13th Avenue Southwest

Based on historical evaluations and findings previously communicated by Antea, in conjunction with further evaluation conducted by ARCADIS, dissolved phase petroleum hydrocarbon impacts to groundwater along the 13th Avenue SW right-of-way do not appear to be the result of historical operations and/or documented releases from the KMLT Harbor Island Terminal. These evaluations were provided to Ecology on November 14, 2012 as a summary of meeting minutes of the October 16, 2012 (ARCADIS 2012b).

KMLT and Shell have worked together to evaluate the 13th Avenue SW petroleum occurrence. They have identified the lateral extent of the TPH-GRO within the shallow groundwater and documented that the concentrations are decreasing and monitored natural attenuation (MNA) has been occurring and effectively cleaning up the 13th Avenue SW area. Ecology has agreed that MNA is an appropriate remedy at this location, as reducing petroleum concentrations in groundwater have been observed in the immediate area. For more detail, see KMLT Figures 6 through 10 and see the Shell Oil Products US Terminal Periodic Review Final Report section 2.2.2 and 2.3.2 (Ecology 2014).

2.4.4 Soil Cleanup Levels

Soil cleanup levels for the Site were developed based on the City of Seattle's zoning designation of the Site and Ecology's determination that there is no current or planned future use of the groundwater beneath the Site for drinking water purposes. Surface soil CLs for lead and arsenic from 0 to 6 bgs were determined based on the USEPA Record of Decision (ROD; USEPA 1993) for Harbor Island (Ecology 2000). Subsurface soil CLs for TPH were a secondary concern and were set to meet the remedial action objective of protecting surface water at the Site boundaries by improving groundwater conditions at the source (Ecology 2000). Soil cleanup levels are presented below:

Site-Specific Soil Cleanup Levels	COC	Cleanup Level mg/kg or ppm
Surface Soil (0 to 6 inches)	Arsenic	32.6 milligrams per kilogram (mg/kg)
	Lead	1,000 mg/kg
C Yard Soils	Total TPH	10,000 mg/kg
A, B, D, and E Yards Soils	Total TPH	20,000 mg/kg

2.4.5 Groundwater Cleanup Levels

Groundwater cleanup levels for the Site were determined by Ecology to be surface water standards that are protective of aquatic organisms in Elliott Bay. These surface water standards are adopted ambient water quality criteria established in WAC 173-201A and Section 304 of the Federal Clean Water Act. The category of ambient water quality standards selected as relevant and appropriate for the Site are the chronic criteria for protection of aquatic organisms listed in WAC 173-201A-040 (Ecology 2000). Applicable surface water standards are not established for TPH. The Site specific groundwater cleanup levels of total petroleum hydrocarbons-gasoline range (TPH-GRO), diesel range (TPH-DRO), and heavy oil (TPH-HO) were selected as the cleanup levels for petroleum. The TPH constituents and other Site specific COCs and their cleanup levels are presented below:

Chemicals of Concern	Cleanup Level mg/L or ppm
Benzene	0.071 mg/L
Ethylbenzene	29.0 mg/L
Total Lead	0.0058 mg/L
Toluene	200 mg/L
TPH-GRO	1.0 mg/L
TPH-DRO	10 mg/L
TPH-HO	10 mg/L
Product	No sheen

2.5 Restrictive Covenant

Based on the Site industrial use, surface cover and cleanup levels, it was determined that the Site was eligible for institutional controls. A Restrictive Covenant was negotiated for the Site and was recorded on June 14, 2000 (Appendix A Exhibit D). The Restrictive Covenant imposes the following limitations:

1. The property shall be used only for industrial uses.

2. No groundwater may be taken for any use from the property that is inconsistent with the Consent Decree.

3. As of the date of the Consent Decree, a portion of the property contains total petroleum hydrocarbons (TPH) in the soil, dissolved residual TPH and its constituents are present in Yards A, B, C and D, next to tanks no. 43, 44, 42, 37, 39, and 35 in the C Yard, west of the D Yard, for the B Yard next to tanks no. 19, 21, 27, 32, 31, 26, 33 25, and for the A Yard between the Light Oil Rack and the Office. Also, concentrations of lead and arsenic above Harbor Island action level of 1000 mg/kg and 32.6 mg/kg, respectively will be present beneath the fixated materials portion of the tank farm in the B and C Yards.

4. The owner shall not alter, modify or remove the existing structures(s) in any manner that may result in a release or exposure to the environment of contaminated soils, groundwater or vapors existing at the Site…in a manner inconsistent with the Remedial Action [Cleanup Action]…Site workers conducting construction activities…will be instructed on precautionary actions to avoid direct contacts with contaminated soils, groundwater or exposure to vapor and fumes and on appropriate methods for handling such wastes.

5. Any activity on the property that may interfere with the viability of the Remedial Action [Cleanup Action], and any activity that may result in a release of a hazardous substance that was contained as part of the Remedial Action [Cleanup Action] are prohibited without written approval from Ecology, which approval shall not be unreasonably withheld. Site workers conducting construction activities within these areas will follow the Health and Safety Plans pursuant to WAC 173-340-8100.

6. And other provisions …for written notice 30-days in advance to transfer any interest in the property, …restrict property uses to be consistent with this Restrictive Covenant, …authorize representatives of Ecology to enter, inspect and collect samples, and …the owner reserves the right to amend or modify this Restrictive Covenant under WAC 173-340-440.

The Restrictive Covenant is consistent with current Site use and is attached in Appendix A with the Consent Decree as Exhibit D.

3.0 PERIODIC REVIEW

3.1 Effectiveness of completed cleanup actions

Based upon the Site visit conducted on November 19, 2014, the buildings, asphalt cover, remedy, and compliance monitoring at the Site continue to eliminate exposure to contaminated soils by ingestion and contact. The asphalt appears in satisfactory condition and no repair, maintenance, or contingency actions have been required. The Site continues to operate as a petroleum storage and distribution terminal, and for details, see the photographic log of the November 19, 2014 site visit and EPA Five-Year Review Interview Record in Appendix C.

Soils with petroleum hydrocarbons, arsenic, and lead concentrations that exceed the MTCA cleanup levels are still present at specific locations at the Site. However, the remedy and restrictive land use prevents human exposure to this contamination by ingestion and direct contact with soils, groundwater and/or vapors. The Restrictive Covenant for the property will ensure that the contamination remaining at the Site is contained and controlled.

3.2 New scientific information for individual hazardous substances for mixtures present at the Site

There is no new scientific information for the contaminants related to the Site.

3.3 New applicable state and federal laws for hazardous substances present at the Site

The cleanup at the Site is governed by Chapter 173-340 WAC (1996 ed.) and provides that:

"A release cleaned up under the cleanup levels determined in (a) or (b) of this subsection shall not be subject to further cleanup action due solely to subsequent amendments to the provision in this chapter on cleanup levels, unless the department determines, on a case-by-case basis, that the previous cleanup action is no longer sufficiently protective of human health and the environment."

Although cleanup levels changed for petroleum hydrocarbon compounds as a result of modifications to MTCA in 2001, contamination remains at the Site above the new MTCA Method A and B cleanup levels. Even so, the cleanup action is still protective of human health and the environment. A table comparing MTCA cleanup levels from 1991 to 2001 is available below:

COC	1991 MTCA Method A Soil Cleanup Level	2001 MTCA Method A Soil Cleanup Level		1991 MTCA Method A Groundwater Cleanup Level	2001 MTCA Method A Groundwater Cleanup Level
Arsenic	20 mg/kg=ppm	20 mg/kg=ppm		5 micrograms per liter (µg/L)= part per billion	5 µg/L=ppb
Lead	250 mg/kg	250 mg/kg		5 µg/L	15 µg/L
TPH	NL	NL		1,000 µg/L	NL
TPH-Gas	100 mg/kg	100/30 mg/kg		NL	1,000/800 µg/L
TPH-Diesel	200 mg/kg	2,000 mg/kg		NL	500 µg/L
TPH-Oil	200 mg/kg	2,000 mg/kg		NL	500 µg/L

NL = None listed.

3.4 Current and projected Site use

The Site is currently used for industrial purposes. There have been no changes in current or projected future Site or resource uses.

3.5 Availability and practicability of higher preference technologies

The remedy implemented included containment of hazardous substances and it continues to be protective of human health and the environment. While higher preference cleanup technologies may be available, they are still not practicable at this Site.

3.6 Availability of improved analytical techniques to evaluate compliance with cleanup levels

The analytical methods used at the time of the remedial action were capable of detection below selected Site-specific cleanup levels. The presence of improved analytical techniques would not affect decisions or recommendations made for the Site.

4.0 CONCLUSIONS

The following conclusions have been made as a result of this periodic review:

- In June and July 2013, ARCADIS completed oversight of the sulfate land application which applied 264,000 lbs. of gypsum and 42,000 lbs. of Epsom salt in the B and D Yards to increase cleanup action in these areas. ARCADIS continues to monitor sulfate levels and COC concentration trends to evaluate the effectiveness of these cleanup actions. The goal of this remedial action is to decrease petroleum substances by enhancing natural anaerobic biological oxidation of petroleum related impacts. A review of recent groundwater COC and geochemical data indicates these cleanup actions are successfully reducing TPH-GRO and benzene concentrations in the B and D Yards.

- In the Third Quarter 2014, groundwater monitoring analytical results in six on-Site monitoring wells exhibited concentrations of COCs above Site-specific groundwater cleanup levels within the B and D Yards. However concentrations of COCs in these wells have exhibited stable or decreasing trends since the sulfate land application.

- Four off-Site groundwater monitoring wells (well A-27, A-28R, MW-23, and MW-24) exhibited concentrations of COCs above Site-specific groundwater cleanup levels. However since 2010 concentrations of COCs in these wells have exhibited stable or decreasing trends.

- The cleanup actions completed at the Site remain protective of human health and the environment.

- Soils cleanup levels have not been met at all standard points of compliance for the Site such as areas of the Site that are inaccessible due to the presence of ASTs and where groundwater soil impacts are below the water table. The soils cleanup action has been determined to comply with cleanup standards since the long-term integrity of the containment system (impermeable surfaces, land use restrictions, etc.) is ensured, and the requirements for the Restrictive Covenant and containment technologies are being met and remain protective of human health and the environment.

- Groundwater cleanup levels have not been met at the standard points of compliance for the Site. However, overall concentrations of petroleum hydrocarbons and petroleum related substances have declined or remain stable throughout the Site. Semi-annual groundwater compliance monitoring continues at the Site and is used to monitor the effectiveness of cleanup actions including monitored natural attenuation also called natural biodegradation. Conditions at the Site continue to improve and remain protective of human health and the environment.

- The Restrictive Covenant for the property is in place and continues to be effective in protecting public health and the environment from exposure to hazardous substances and protecting the integrity of the cleanup action.

Based on this periodic review, the Department of Ecology has determined that the requirements of the Consent Decree and the Restrictive Covenant continue to be met. No additional cleanup actions are required by the property owner. It is the property owner's responsibility to continue to inspect the Site to assure that the integrity of the remedy is maintained.

4.1 Next Review

The next review for the Site will be scheduled five years from the date of this periodic review in 2019. In the event that additional cleanup actions or institutional controls are required, the next periodic review will be scheduled five years from the completion of those activities.

REFERENCES

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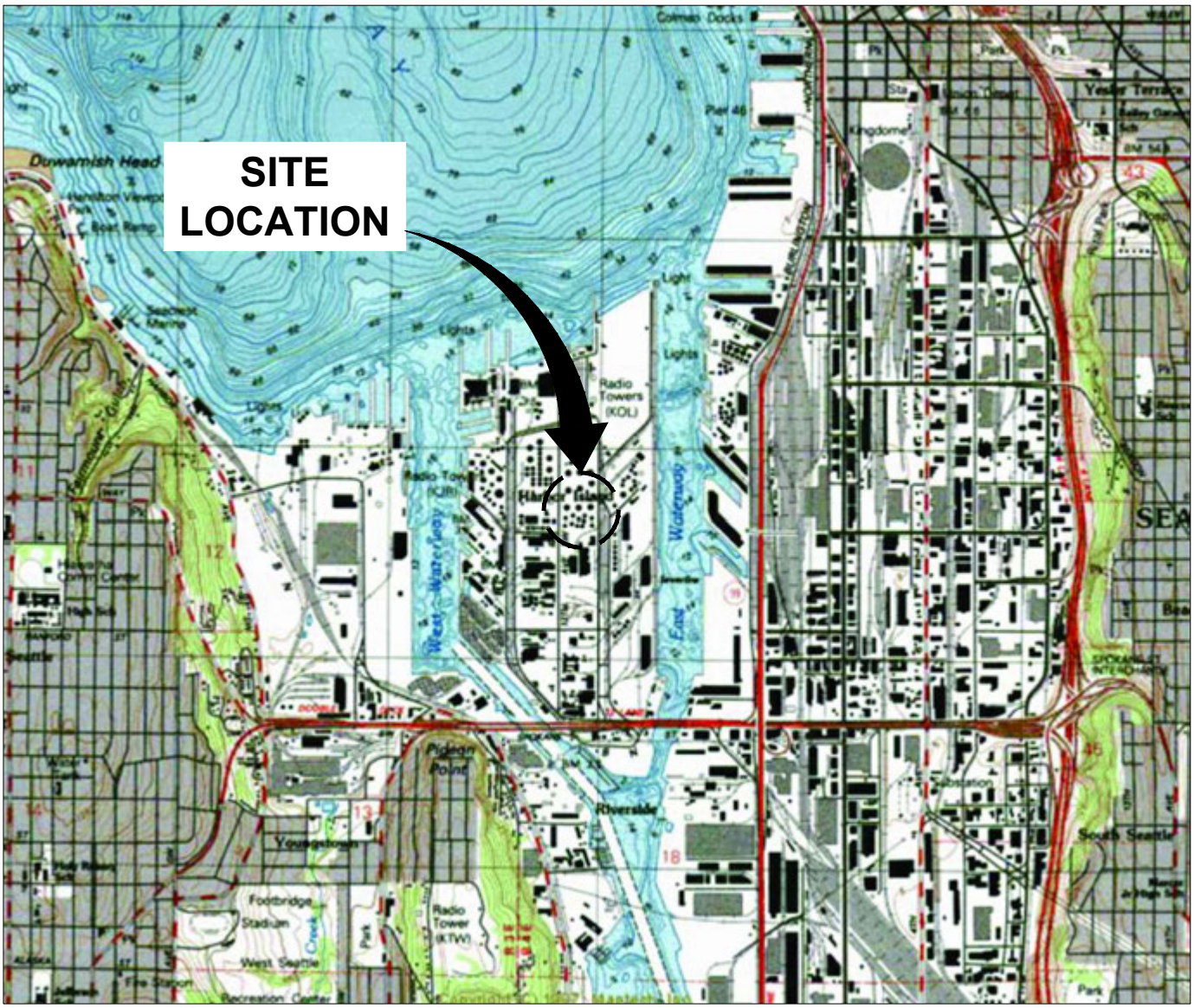
FIGURES



REFERENCE: BASE MAP USGS 7.5. MINUTE TOPOGRAPHIC MAP
SEATTLE SOUTH, WASHINGTON 1083

WASHINGTON

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.

KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
PERIODIC REVIEW

SITE LOCATION MAP

ARCADIS

FIGURE
1

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Emeryville\ACT\WA000804\2014\00005\2014PeriodicRev\DWG\WA000804 N01.dwg LAYOUT: 1 SAVED: 12/5/2014 2:28 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 12/5/2014 2:29 PM BY: REYES, ALEC
XREFS: IMAGES: PROJECTNAME: ---
KM Terminal PRR Flures_Page_02.jpg
WA000804 GoogleAerial.jpg
WA000804 OPERABLE Units Aerial.jpg
WA000804 USGS.jpg

SOURCE: GOOGLE EARTH PRO

0 1000' 2000'

Approximate Scale: 1 in. = 1000 ft.

KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
PERIODIC REVIEW

HARBOR ISLAND OPERABLE UNITS

ARCADIS

FIGURE
2

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Emeryville\ACT\WA000804\2014\000052014PeriodicRev\DWG\WA000804 N01.dwg LAYOUT: 2 SAVED: 12/5/2014 2:28 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 12/5/2014 2:29 PM BY: REYES, ALEC

LEGEND

- SH-02 — GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
- MW-7 — GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
- MW-12R — REPLACEMENT GROUNDWATER MONITORING WELL (INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 21, 2002)
- MW-25 — MONITORING WELLS INSTALLED SEPTEMBER 30, 2003
- WELL INACCESSIBLE OR DAMAGED
- TMW-2 — PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
- TMW-E3 — TEMPORARY MONITORING WELL INSTALLED BEFORE JUNE 2013

RAILROAD TRACKS

11th AVENUE S.W.

MW-12R

MW-4 SH-02R GATE MW-07R SH-05R

MW-1 MW-15 TMW-C1 Tank 43 Tank 44 23 WAREHOUSE MAINTENANCE BUILDINGS MW-20 GATE

'E' YARD 'D' YARD

Tank 18 9 Tank 19 10 Tank 22 7 MW-21

Tank 20 MW-8 MW-11D Tank 23 6 Tank 29 Tank 24

Tank 42 'C' YARD TMW-C2 Tank 37 22 21 MW-14 BBL STORAGE MW-5 TMW-2

Tank 21 11 TMW-4 TMW-3 'B' YARD Tank 27 Tank 28 4 16

26 TMW-C3 20 MW-19 TMW-1 MW-3 MW-7 Tank 32 Tank 31 12 TMW-6

Tank 39 27 Tank 35 19 TMW-C4 Tank 25 TMW-5 Tank 33 MW-9 Tank 26

17 RAMP

OLYMPIC PIPELINE LEASE AREA

TMW-E3 TMW-E2 TMW-E1 MW-2 PROPERTY LINE MW-22 GATE MW-6 TMW-B1 A-27 GATE A-26R A-22R MW-24 MW-23 A-23R

13th AVENUE S.W.

TMW-E4 MW-18 MW-17 MW-16 SH-04 A-28R

A-8 A-6 A-17 SF-01R A-5 A-4 TRUCK LOADING RACK 'A' YARD A-1 A-2 A-7 A-29R GARAGE A-11 MW-25 A-10 A-12 A-16 A-25 PARKING OFFICE BUILDING A-18 A-14R A-3 A-9 A-19 A-20 A-21 PARKING

RE-ESTABLISHED PROPERTY LINE (APPROXIMATE)

FORMER PROPERTY LINE

FENCE

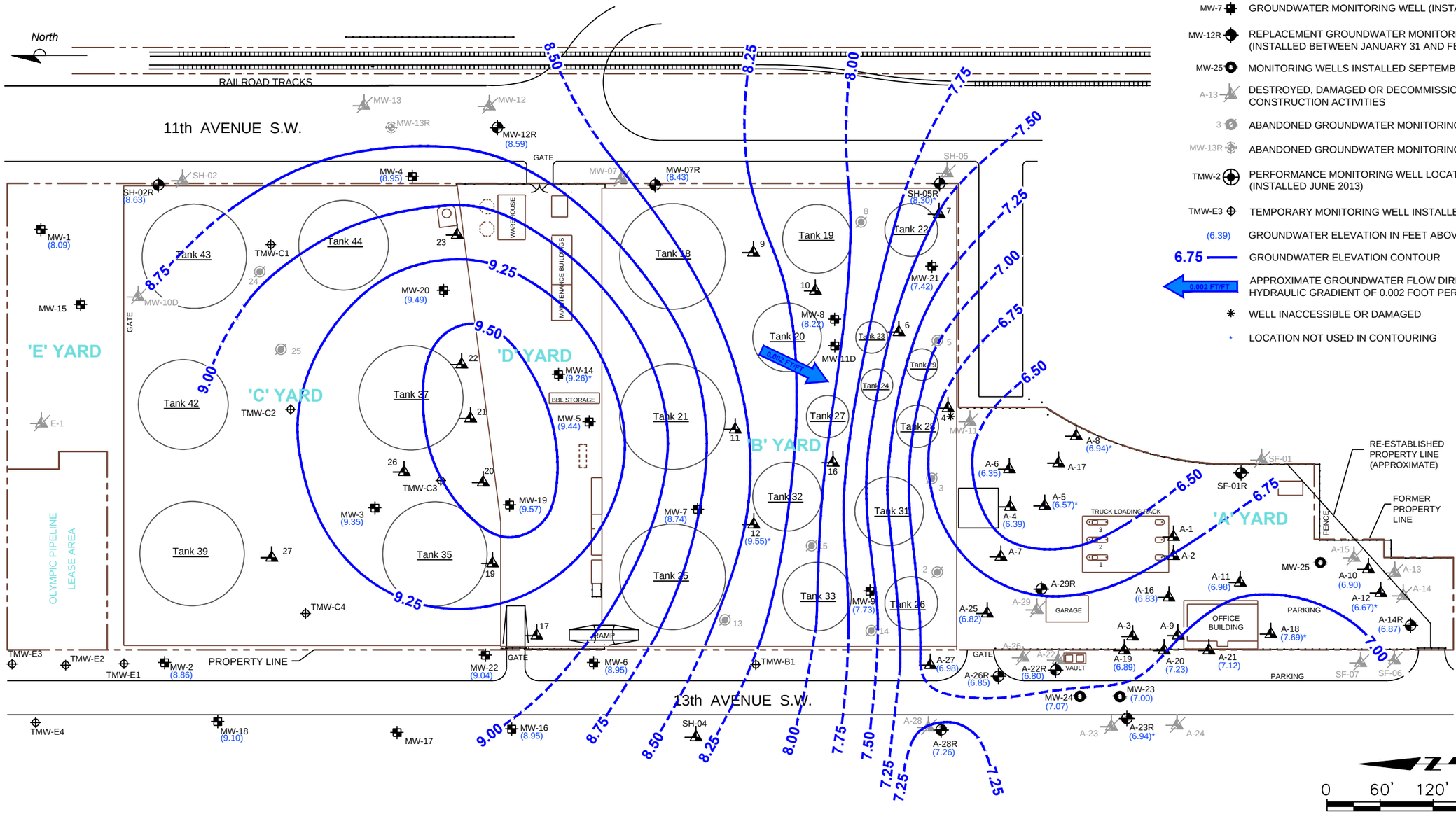
0 60' 120' 240'

KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
PERIODIC REVIEW

SITE PLAN

ARCADIS

FIGURE 3



LEGEND

- SH-02 — GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
- MW-7 — GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
- MW-12R — REPLACEMENT GROUNDWATER MONITORING WELL (INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 21, 2002)
- MW-25 — MONITORING WELLS INSTALLED SEPTEMBER 30, 2003
- A-13 — DESTROYED, DAMAGED OR DECOMMISSIONED DUE TO CONSTRUCTION ACTIVITIES
- 3 — ABANDONED GROUNDWATER MONITORING WELL, JUNE 2003
- MW-13R — ABANDONED GROUNDWATER MONITORING WELL, MAY 2012
- TMW-2 — PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
- TMW-E3 — TEMPORARY MONITORING WELL INSTALLED BEFORE JUNE 2013
- (6.39) — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 6.75 — GROUNDWATER ELEVATION CONTOUR
- 0.002 FT/FT — APPROXIMATE GROUNDWATER FLOW DIRECTION AND HYDRAULIC GRADIENT OF 0.002 FOOT PER FOOT
- ✳ — WELL INACCESSIBLE OR DAMAGED
- * — LOCATION NOT USED IN CONTOURING

KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
PERIODIC REVIEW

SECOND QUARTER 2013 GROUNDWATER ELEVATION CONTOURS

ARCADIS

FIGURE 4

CITY: EMERYVILLE, CA DIV/GROUP: ENVCAD DB: A. REYES, J. HARRIS
G:\ENVCAD\Emeryville\ACTIVITY\A000804\2014000052014PeriodicRev\DWG\WA000804 W04.dwg LAYOUT: 4 SAVED: 12/5/2014 2:32 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 12/5/2014 2:32 PM BY: REYES, ALEC
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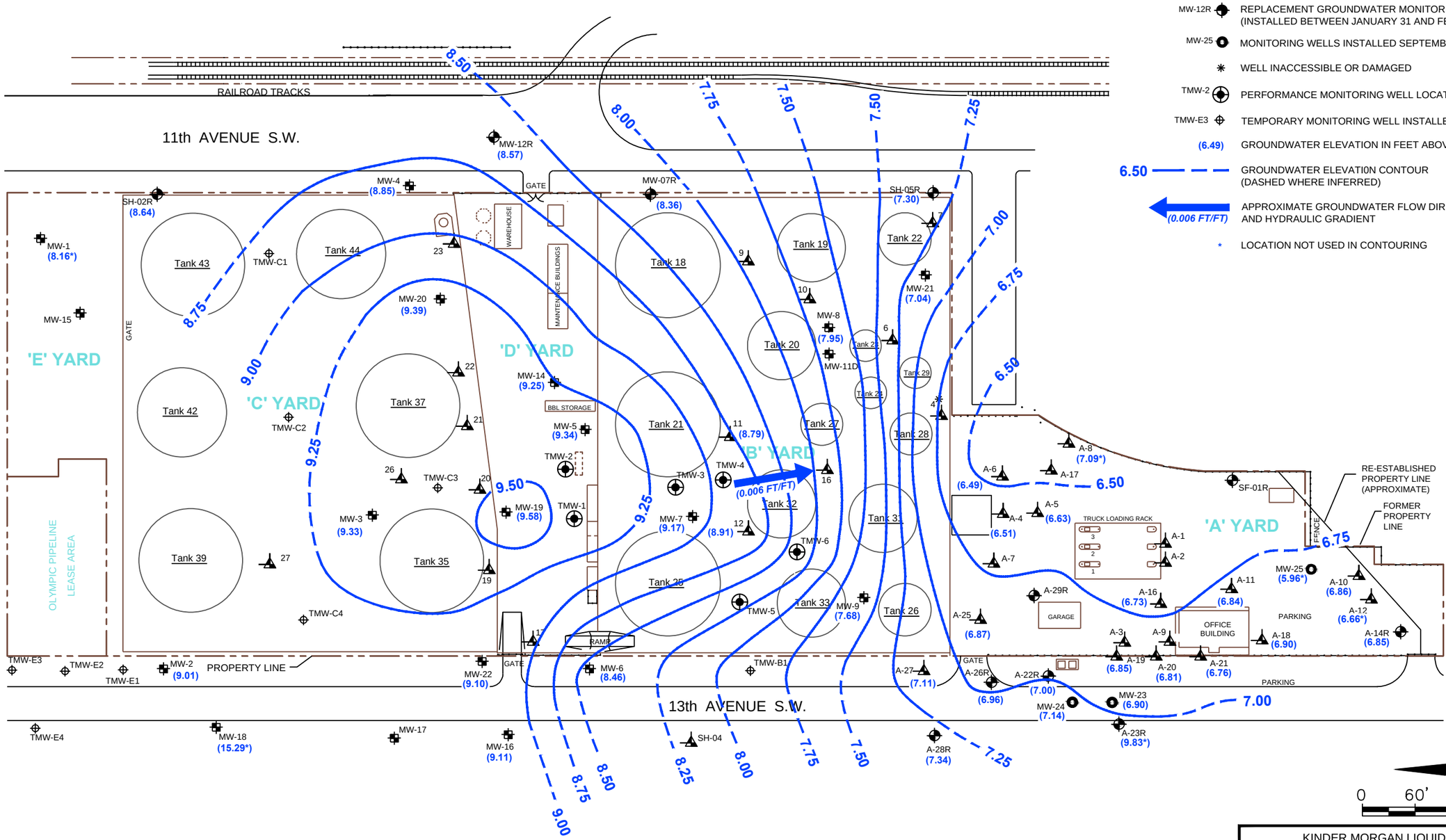


LEGEND

- SH-02 — GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
- MW-7 — GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
- MW-12R — REPLACEMENT GROUNDWATER MONITORING WELL (INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 21, 2002)
- MW-25 — MONITORING WELLS INSTALLED SEPTEMBER 30, 2003
- WELL INACCESSIBLE OR DAMAGED
- TMW-2 — PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
- TMW-E3 — TEMPORARY MONITORING WELL INSTALLED BEFORE JUNE 2013
- (6.49) — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 6.50 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- (0.006 FT/FT) — APPROXIMATE GROUNDWATER FLOW DIRECTION AND HYDRAULIC GRADIENT
- LOCATION NOT USED IN CONTOURING

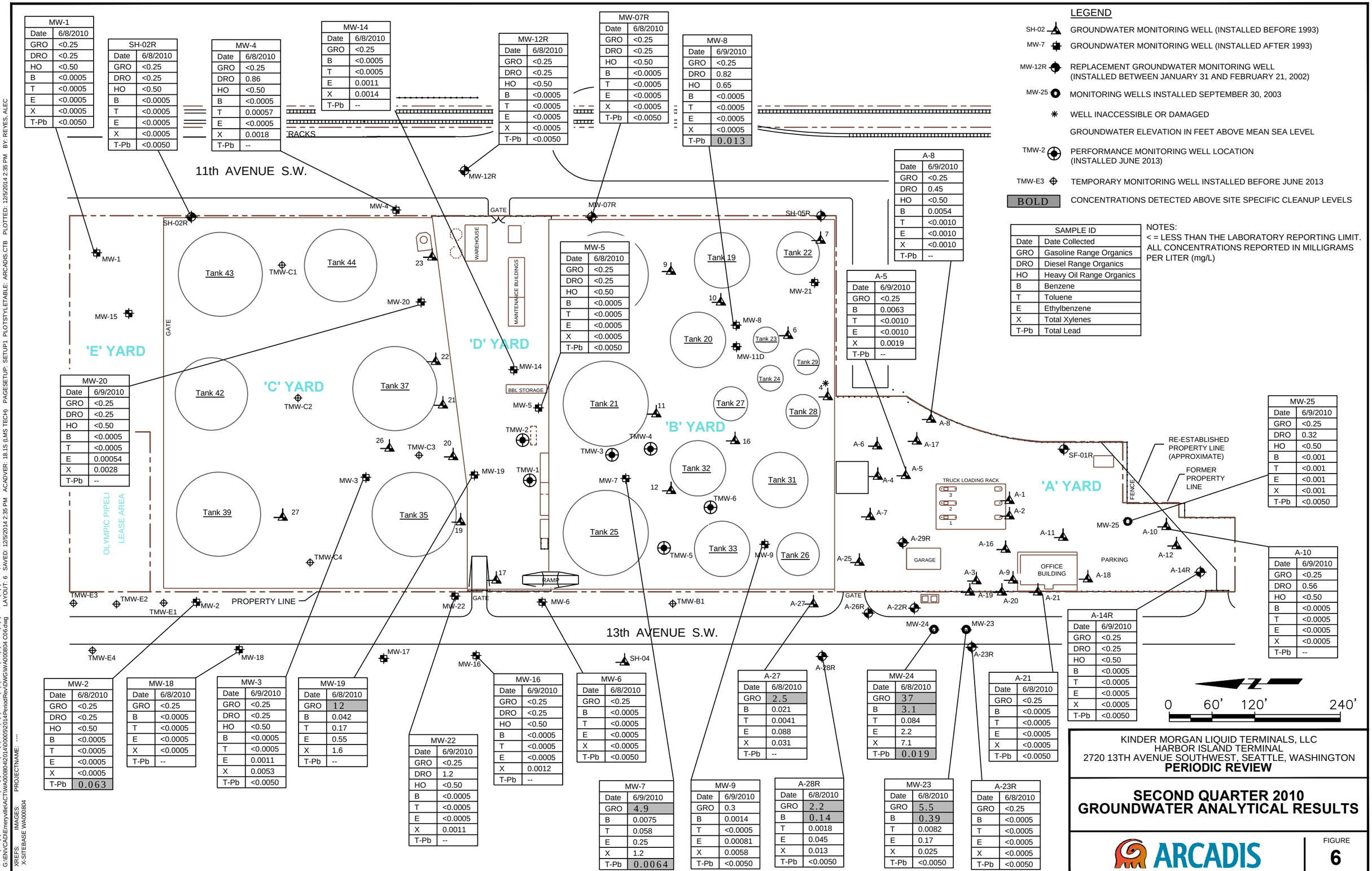
0 60’ 120’ 240’

KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
PERIODIC REVIEW

SECOND QUARTER 2014 GROUNDWATER ELEVATION CONTOURS

ARCADIS

FIGURE 5



MW-1	
Date	6/8/2010
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

SH-02R	
Date	6/8/2010
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-4	
Date	6/8/2010
GRO	<0.25
DRO	0.86
HO	<0.50
B	<0.0005
T	0.00057
E	<0.0005
X	0.0018
T-Pb	--

MW-14	
Date	6/8/2010
GRO	<0.25
B	<0.0005
T	<0.0005
E	0.0011
X	0.0014
T-Pb	--

MW-12R	
Date	6/8/2010
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-07R	
Date	6/8/2010
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-8	
Date	6/9/2010
GRO	<0.25
DRO	0.82
HO	0.65
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	0.013

A-8	
Date	6/9/2010
GRO	<0.25
DRO	0.45
HO	<0.50
B	0.0054
T	<0.0010
E	<0.0010
X	<0.0010
T-Pb	--

A-5	
Date	6/9/2010
GRO	<0.25
B	0.0063
T	<0.0010
E	<0.0010
X	0.0019
T-Pb	--

MW-5	
Date	6/8/2010
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-20	
Date	6/9/2010
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	0.00054
X	0.0028
T-Pb	--

LEGEND

- SH-02 — GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
- MW-7 — GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
- MW-12R — REPLACEMENT GROUNDWATER MONITORING WELL (INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 21, 2002)
- MW-25 — MONITORING WELLS INSTALLED SEPTEMBER 30, 2003
- WELL INACCESSIBLE OR DAMAGED
- GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- TMW-2 — PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
- TMW-E3 — TEMPORARY MONITORING WELL INSTALLED BEFORE JUNE 2013
- BOLD — CONCENTRATIONS DETECTED ABOVE SITE SPECIFIC CLEANUP LEVELS

SAMPLE ID	
Date	Date Collected
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HO	Heavy Oil Range Organics
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total Xylenes
T-Pb	Total Lead

NOTES:
< = LESS THAN THE LABORATORY REPORTING LIMIT.
ALL CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER (mg/L)

MW-25	
Date	6/9/2010
GRO	<0.25
DRO	0.32
HO	<0.50
B	<0.001
T	<0.001
E	<0.001
X	<0.001
T-Pb	<0.0050

A-10	
Date	6/9/2010
GRO	<0.25
DRO	0.56
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

A-14R	
Date	6/9/2010
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-2	
Date	6/8/2010
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	0.063

MW-18	
Date	6/8/2010
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

MW-3	
Date	6/9/2010
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	0.0011
X	0.0053
T-Pb	<0.0050

MW-19	
Date	6/8/2010
GRO	12
B	0.042
T	0.17
E	0.55
X	1.6
T-Pb	--

MW-22	
Date	6/9/2010
GRO	<0.25
DRO	1.2
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	0.0011
T-Pb	--

MW-16	
Date	6/9/2010
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	0.0012
T-Pb	--

MW-6	
Date	6/8/2010
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-7	
Date	6/9/2010
GRO	4.9
B	0.0075
T	0.058
E	0.25
X	1.2
T-Pb	0.0064

A-27	
Date	6/8/2010
GRO	2.5
B	0.021
T	0.0041
E	0.088
X	0.031
T-Pb	--

MW-9	
Date	6/9/2010
GRO	0.3
B	0.0014
T	<0.0005
E	0.00081
X	0.0058
T-Pb	<0.0050

A-28R	
Date	6/8/2010
GRO	2.2
B	0.14
T	0.0018
E	0.045
X	0.013
T-Pb	<0.0050

MW-24	
Date	6/8/2010
GRO	37
B	3.1
T	0.084
E	2.2
X	7.1
T-Pb	0.019

MW-23	
Date	6/8/2010
GRO	5.5
B	0.39
T	0.0082
E	0.17
X	0.025
T-Pb	<0.0050

A-23R	
Date	6/8/2010
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

A-21	
Date	6/8/2010
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
PERIODIC REVIEW

SECOND QUARTER 2010 GROUNDWATER ANALYTICAL RESULTS

ARCADIS

FIGURE
6

MW-1	
Date	5/23/2011
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

SH-02R	
Date	5/23/2011
GRO	<0.25
DRO	0.29
HO	<0.50
B	<0.0010
T	<0.0010
E	<0.0010
X	<0.0010
T-Pb	<0.0050

MW-4	
Date	5/23/2011
GRO	<0.25
DRO	1.6
HO	<0.50
B	<0.0010
T	<0.0010
E	<0.0010
X	<0.0010
T-Pb	--

MW-14	
Date	5/24/2011
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

MW-12R	
Date	5/23/2011
GRO	<0.25
DRO	0.41
HO	<0.50
B	<0.0010
T	<0.0010
E	<0.0010
X	<0.0010
T-Pb	<0.0050

MW-07R	
Date	5/23/2011
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-8	
Date	5/24/2011
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	0.020

MW-21	
Date	5/24/2011
GRO	<0.25
DRO	1.2
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

A-8	
Date	5/25/2011
GRO	<0.25
DRO	1.2
HO	<0.50
B	<0.0010
T	<0.0010
E	<0.0010
X	<0.0010
T-Pb	--

A-5	
Date	5/25/2011
GRO	0.39
B	0.0078
T	0.00057
E	<0.0005
X	0.0014
T-Pb	--

MW-5	
Date	5/24/2011
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0010
T	<0.0010
E	<0.0010
X	<0.0010
T-Pb	<0.0050

MW-20	
Date	5/23/2011
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

MW-9	
Date	5/24/2011
GRO	<0.25
B	0.0043
T	<0.0005
E	<0.0005
X	0.00085
T-Pb	0.0093

A-25	
Date	6/16/2011
GRO	4.1
B	0.27
T	0.038
E	0.28
X	0.19
T-Pb	--

A-29R	
Date	5/25/2011
GRO	5.6
B	2.3
T	0.018
E	<0.015
X	0.024
T-Pb	--

MW-25	
Date	5/25/2011
GRO	<0.50
DRO	1.4
HO	<0.50
B	<0.0025
T	<0.0025
E	<0.0025
X	<0.0025
T-Pb	<0.0050

A-10	
Date	5/25/2011
GRO	<0.25
DRO	0.8
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

A-12	
Date	5/25/2011
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

A-14R	
Date	5/25/2011
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-7	
Date	5/24/2011
GRO	5.0
B	0.0062
T	0.05
E	0.14
X	0.66
T-Pb	0.0082

MW-19	
Date	5/24/2011
GRO	7.4
B	0.0028
T	0.011
E	0.17
X	0.38
T-Pb	--

MW-6	
Date	5/24/2011
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-2	
Date	5/23/2011
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-18	
Date	5/23/2011
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

MW-3	
Date	5/23/2011
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-17	
Date	5/23/2011
GRO	0.3
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

MW-22	
Date	5/23/2011
GRO	<0.25
DRO	2.7
HO	<0.50
B	<0.0010
T	<0.0010
E	<0.0010
X	<0.0010
T-Pb	--

MW-16	
Date	5/23/2011
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

A-27	
Date	5/24/2011
GRO	1.7
B	0.0092
T	0.0017
E	0.023
X	0.0096
T-Pb	--

A-28R	
Date	5/24/2011
GRO	3.5
B	0.21
T	0.0029
E	0.091
X	0.015
T-Pb	<0.0050

A-26R	
Date	5/25/2011
GRO	22
B	4.0
T	0.095
E	1.6
X	0.75
T-Pb	--

A-22R	
Date	5/25/2011
GRO	27
B	3.1
T	0.086
E	0.086
X	1.7
T-Pb	--

MW-24	
Date	5/24/2011
GRO	11
B	1.2
T	0.028
E	0.51
X	1.3
T-Pb	<0.0050

MW-23	
Date	5/24/2011
GRO	6.0
B	0.32
T	0.0053
E	0.16
X	0.027
T-Pb	<0.0050

A-23R	
Date	5/24/2011
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

A-21	
Date	6/8/2010
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

LEGEND

- SH-02 — GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
- MW-7 — GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
- MW-12R — REPLACEMENT GROUNDWATER MONITORING WELL (INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 21, 2002)
- MW-25 — MONITORING WELLS INSTALLED SEPTEMBER 30, 2003
- WELL INACCESSIBLE OR DAMAGED
- GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- TMW-2 — PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
- TMW-E3 — TEMPORARY MONITORING WELL INSTALLED BEFORE JUNE 2013
- BOLD — CONCENTRATIONS DETECTED ABOVE SITE SPECIFIC CLEANUP LEVELS

SAMPLE ID	
Date	Date Collected
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HO	Heavy Oil Range Organics
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total Xylenes
T-Pb	Total Lead

NOTES:
< = LESS THAN THE LABORATORY REPORTING LIMIT.
ALL CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER (mg/L)

11th AVENUE S.W.

13th AVENUE S.W.

'E' YARD

'C' YARD

'D' YARD

'B' YARD

'A' YARD

Tank 43, Tank 44, Tank 42, Tank 37, Tank 39, Tank 35, Tank 21, Tank 19, Tank 20, Tank 23, Tank 29, Tank 24, Tank 27, Tank 28, Tank 32, Tank 33, Tank 26, Tank 22

WAREHOUSE, MAINTENANCE BUILDINGS, BBL STORAGE, GATE, PROPERTY LINE, OLYMPIC PIPELINE LEASE AREA, TRUCK LOADING RACK, GARAGE, OFFICE BUILDING, PARKING, FENCE, FORMER PROPERTY LINE, RE-ESTABLISHED PROPERTY LINE (APPROXIMATE)

0 60' 120' 240'

KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
PERIODIC REVIEW

SECOND QUARTER 2011 GROUNDWATER ANALYTICAL RESULTS

ARCADIS

FIGURE 7

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(On|Off|=*OFF=*REF* ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 12/5/2014 2:36 PM BY: REYES, ALEC
G:\ENVCAD\Emeryville\ACTIVA0080402014000552014PeriodicRev\DWG\WA000804 C07.dwg LAYOUT: 7 SAVED: 12/5/2014 2:36 PM BY: REYES, ALEC
XREFS: IMAGES: PROJECTNAME: ----
X-SITEBASE WA000804

MW-1	
Date	6/1/2012
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

SH-02R	
Date	6/1/2012
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-4	
Date	6/1/2012
GRO	<0.50
DRO	2.0
HO	<0.50
B	<0.0025
T	<0.0025
E	<0.0025
X	<0.0025
T-Pb	--

MW-14	
Date	5/31/2012
GRO	<0.25
B	<0.0010
T	<0.0010
E	<0.0010
X	<0.0010
T-Pb	--

MW-12R	
Date	6/1/2012
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0010
T	<0.0010
E	<0.0010
X	<0.0010
T-Pb	<0.0050

MW-07R	
Date	6/1/2012
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-8	
Date	5/31/2012
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0010
T	<0.0010
E	<0.0010
X	<0.0010
T-Pb	0.032

MW-21	
Date	5/31/2012
GRO	<0.25
DRO	6.1
HO	<0.50
B	<0.0010
T	<0.0010
E	<0.0010
X	<0.0010
T-Pb	--

A-8	
Date	6/1/2012
GRO	<0.50
DRO	0.90
HO	<0.50
B	<0.0025
T	<0.0025
E	<0.0025
X	<0.0025
T-Pb	--

A-5	
Date	6/1/2012
GRO	<0.25
B	0.012
T	<0.0010
E	<0.0010
X	0.0010
T-Pb	--

MW-5	
Date	5/31/2012
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-20	
Date	5/31/2012
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

MW-19	
Date	5/31/2012
GRO	8.3
B	0.079
T	0.073
E	0.48
X	0.81
T-Pb	--

MW-7	
Date	5/31/2012
GRO	8.8
B	0.02
T	0.14
E	0.36
X	1.9
T-Pb	0.0063

MW-9	
Date	5/31/2012
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	0.012

MW-2	
Date	5/31/2012
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-18	
Date	5/31/2012
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

MW-3	
Date	5/31/2012
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-22	
Date	5/31/2012
GRO	<1.0
DRO	2.1
HO	0.73
B	<0.0050
T	<0.0050
E	<0.0050
X	<0.0050
T-Pb	--

MW-6	
Date	5/31/2012
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-16	
Date	5/31/2012
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

A-27	
Date	5/30/2012
GRO	1.6
B	0.0150
T	0.0016
E	0.038
X	0.0066
T-Pb	--

A-28R	
Date	5/30/2012
GRO	2.7
B	0.065
T	0.0017
E	0.05
X	0.0085
T-Pb	<0.0050

MW-24	
Date	5/30/2012
GRO	7.3
B	0.39
T	0.013
E	0.3
X	0.88
T-Pb	<0.0050

MW-23	
Date	5/30/2012
GRO	4.5
B	0.087
T	<0.0025
E	0.14
X	0.022
T-Pb	<0.0050

A-23R	
Date	5/30/2012
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

A-21	
Date	5/30/2012
GRO	1.5
B	<0.0010
T	<0.0010
E	0.027
X	<0.0010
T-Pb	<0.0050

MW-25	
Date	6/1/2012
GRO	<0.25
DRO	<0.25
HO	<0.50
B	0.0011
T	<0.0010
E	<0.0010
X	<0.0010
T-Pb	<0.0050

A-10	
Date	6/1/2012
GRO	<0.25
DRO	0.62
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

A-14R	
Date	6/1/2012
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	--

11th AVENUE S.W.

13th AVENUE S.W.

'E' YARD

'C' YARD

'D' YARD

'B' YARD

'A' YARD

OLYMPIC PIPELI LEASE AREA

PROPERTY LINE

RACKS

GATE

WAREHOUSE

MAINTENANCE BUILDINGS

BBL STORAGE

TRUCK LOADING RACK

GARAGE

OFFICE BUILDING

PARKING

FENCE

RE-ESTABLISHED PROPERTY LINE (APPROXIMATE)

FORMER PROPERTY LINE

Tank 43, Tank 44, Tank 42, Tank 37, Tank 39, Tank 35, Tank 21, Tank 19, Tank 20, Tank 22, Tank 23, Tank 29, Tank 24, Tank 27, Tank 28, Tank 32, Tank 33, Tank 26

MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-11D, MW-12R, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25, MW-07R

SH-02R, SH-04, SH-05R, SF-01R

TMW-1, TMW-2, TMW-3, TMW-4, TMW-5, TMW-6, TMW-B1, TMW-C1, TMW-C2, TMW-C3, TMW-C4, TMW-E1, TMW-E2, TMW-E3, TMW-E4

A-1, A-2, A-3, A-4, A-5, A-6, A-7, A-8, A-9, A-10, A-11, A-12, A-14R, A-16, A-17, A-18, A-19, A-20, A-21, A-22R, A-23R, A-25, A-26R, A-27, A-28R, A-29R

LEGEND

- SH-02 — GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
- MW-7 — GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
- MW-12R — REPLACEMENT GROUNDWATER MONITORING WELL (INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 21, 2002)
- MW-25 — MONITORING WELLS INSTALLED SEPTEMBER 30, 2003
- WELL INACCESSIBLE OR DAMAGED
- GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- TMW-2 — PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
- TMW-E3 — TEMPORARY MONITORING WELL INSTALLED BEFORE JUNE 2013
- BOLD — CONCENTRATIONS DETECTED ABOVE SITE SPECIFIC CLEANUP LEVELS

SAMPLE ID	
Date	Date Collected
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HO	Heavy Oil Range Organics
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total Xylenes
T-Pb	Total Lead

NOTES:
< = LESS THAN THE LABORATORY REPORTING LIMIT.
ALL CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER (mg/L)

0 60' 120' 240'

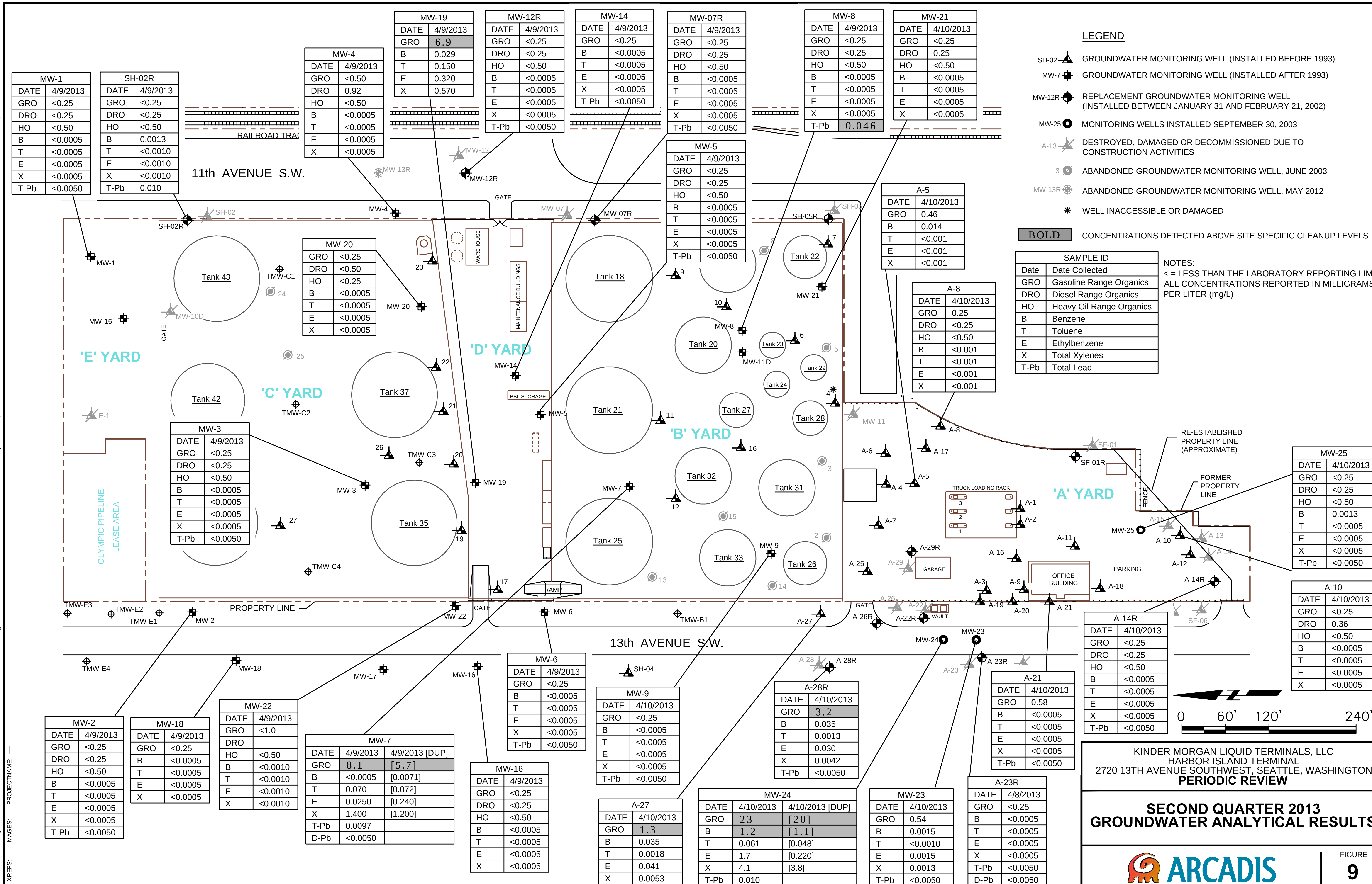
KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
PERIODIC REVIEW

SECOND QUARTER 2012 GROUNDWATER ANALYTICAL RESULTS

ARCADIS

FIGURE 8

CTTY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(On|Off=*;OFF=*REF*
G:\ENVCAD\Emeryville\ACTIVITY\WA000804\2014000592014PeriodicRevIDWG\WA000804 C08.dwg SAVED: 12/5/2014 2:36 PM BY: REYES, ALEC
XREFS: IMAGES: PROJECTNAME: ---- LAYOUT: 8 PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 12/5/2014 2:37 PM BY: REYES, ALEC
X-SITEBASE WA000804 ACADVER: 18.1S (LMS TECH)



LEGEND

Symbol	Description
SH-02	GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
MW-7	GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
MW-12R	REPLACEMENT GROUNDWATER MONITORING WELL (INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 21, 2002)
MW-25	MONITORING WELLS INSTALLED SEPTEMBER 30, 2003
A-13	DESTROYED, DAMAGED OR DECOMMISSIONED DUE TO CONSTRUCTION ACTIVITIES
3	ABANDONED GROUNDWATER MONITORING WELL, JUNE 2003
MW-13R	ABANDONED GROUNDWATER MONITORING WELL, MAY 2012
*	WELL INACCESSIBLE OR DAMAGED
BOLD	CONCENTRATIONS DETECTED ABOVE SITE SPECIFIC CLEANUP LEVELS

SAMPLE ID	
Date	Date Collected
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
HO	Heavy Oil Range Organics
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total Xylenes
T-Pb	Total Lead

NOTES:
< = LESS THAN THE LABORATORY REPORTING LIMIT.
ALL CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER (mg/L)

MW-1	
DATE	4/9/2013
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

SH-02R	
DATE	4/9/2013
GRO	<0.25
DRO	<0.25
HO	<0.50
B	0.0013
T	<0.0010
E	<0.0010
X	<0.0010
T-Pb	0.010

MW-4	
DATE	4/9/2013
GRO	<0.50
DRO	0.92
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

MW-19	
DATE	4/9/2013
GRO	**6.9**
B	0.029
T	0.150
E	0.320
X	0.570

MW-12R	
DATE	4/9/2013
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-14	
DATE	4/9/2013
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-07R	
DATE	4/9/2013
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-5	
DATE	4/9/2013
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-8	
DATE	4/9/2013
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	**0.046**

MW-21	
DATE	4/10/2013
GRO	<0.25
DRO	0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

A-5	
DATE	4/10/2013
GRO	0.46
B	0.014
T	<0.001
E	<0.001
X	<0.001

A-8	
DATE	4/10/2013
GRO	0.25
DRO	<0.25
HO	<0.50
B	<0.001
T	<0.001
E	<0.001
X	<0.001

MW-20	
GRO	<0.25
DRO	<0.50
HO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

MW-3	
DATE	4/9/2013
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-25	
DATE	4/10/2013
GRO	<0.25
DRO	<0.25
HO	<0.50
B	0.0013
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

A-10	
DATE	4/10/2013
GRO	<0.25
DRO	0.36
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

A-14R	
DATE	4/10/2013
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-2	
DATE	4/9/2013
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-18	
DATE	4/9/2013
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

MW-22	
DATE	4/9/2013
GRO	<1.0
DRO	
HO	<0.50
B	<0.0010
T	<0.0010
E	<0.0010
X	<0.0010

MW-7		
DATE	4/9/2013	4/9/2013 [DUP]
GRO	**8.1**	**[5.7]**
B	<0.0005	[0.0071]
T	0.070	[0.072]
E	0.0250	[0.240]
X	1.400	[1.200]
T-Pb	0.0097	
D-Pb	<0.0050	

MW-16	
DATE	4/9/2013
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

MW-6	
DATE	4/9/2013
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

MW-9	
DATE	4/10/2013
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

A-27	
DATE	4/10/2013
GRO	**1.3**
B	0.035
T	0.0018
E	0.041
X	0.0053

A-28R	
DATE	4/10/2013
GRO	**3.2**
B	0.035
T	0.0013
E	0.030
X	0.0042
T-Pb	<0.0050

MW-24		
DATE	4/10/2013	4/10/2013 [DUP]
GRO	**23**	**[20]**
B	**1.2**	**[1.1]**
T	0.061	[0.048]
E	1.7	[0.220]
X	4.1	[3.8]
T-Pb	0.010	

MW-23	
DATE	4/10/2013
GRO	0.54
B	0.0015
T	<0.0010
E	0.0015
X	0.0013
T-Pb	<0.0050

A-21	
DATE	4/10/2013
GRO	0.58
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050

A-23R	
DATE	4/8/2013
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005
T-Pb	<0.0050
D-Pb	<0.0050

KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
PERIODIC REVIEW

SECOND QUARTER 2013 GROUNDWATER ANALYTICAL RESULTS

ARCADIS

FIGURE
9

CITY: EMERYVILLE, CA DIV/GROUP: ENVCAD DB: A. REYES, J. HARRIS LAYOUT: 9 SAVED: 12/5/2014 2:40 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 12/5/2014 3:25 PM BY: REYES, ALEC

MW-1	
Date	4/23/2014
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	<0.0050

SH-02R	
Date	4/23/2014
GRO	<0.25
DRO	0.28
DRO SGC	<0.25
HO	<0.50
HO SGC	<0.50
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	<0.0050

MW-4	
Date	4/23/2014
GRO	<0.25
DRO	5.3
DRO SGC	1.7
HO	<0.50
HO SGC	<0.50
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	--

MW-14	
Date	4/21/2014
GRO	<0.25
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	--

MW-12R	
Date	4/23/2014
GRO	<0.25
DRO	0.49
DRO SGC	<0.25
HO	<0.50
HO SGC	<0.50
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	<0.0050

MW-07R	
Date	4/23/2014
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	<0.0050

MW-8	
Date	4/24/2014
GRO	<0.25
DRO	0.49
DRO SGC	<0.25
HO	<0.50
HO SGC	<0.50
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	0.027

MW-21	
Date	4/24/2014
GRO	<0.25
DRO	0.74
DRO SGC	0.28
HO	<0.50
HO SGC	<0.50
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	--

A-8	
Date	4/23/2014
GRO	<0.25
DRO	1.5
DRO SGC	<0.25
HO	<0.50
HO SGC	<0.50
B	<0.00050
T	0.00061
E	<0.00050
X	<0.00050
T-Pb	--

A-5	
Date	4/23/2014
GRO	0.60
B	0.025
T	0.0015
E	<0.00050
X	0.0011
T-Pb	--

MW-5	
Date	4/21/2014
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	<0.0050

MW-20	
Date	4/22/2014
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	--

MW-2	
Date	4/22/2014
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	<0.0050

MW-18	
Date	4/22/2014
GRO	<0.25
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	--

MW-3	
Date	4/22/2014
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	<0.0050

MW-19	
Date	4/21/2014
GRO	2.1
B	0.0066
T	0.0039
E	0.16
X	0.0064
T-Pb	--

MW-22	
Date	4/22/2014
GRO	<0.25
DRO	2.9
DRO-SGC	0.38
HO	<0.50
HO-SGC	<0.50
B	<0.0010 O
T	<0.0010 O
E	<0.0010 O
X	<0.0010 O
T-Pb	--

MW-16	
Date	4/22/2014
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	--

MW-6	
Date	4/22/2014
GRO	<0.25
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	<0.0050

MW-9	
Date	4/21/2014
GRO	<0.25
B	0.017
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	<0.0050

MW-7	
Date	4/21/2014
GRO	1.9 [2.4]
B	0.013 [0.015]
T	0.0093 [0.012]
E	0.110 [0.130]
X	0.200 [0.250]
D-Pb	<0.0050
T-Pb	<0.0050

A-28R	
Date	4/22/2014
GRO	2.2
B	0.062
T	0.0022
E	0.016
X	0.0025
T-Pb	<0.0050

MW-24	
Date	4/23/2014
GRO	23 [24]
B	1.0 [1.0]
T	0.051 [0.048]
E	1.7 [1.7]
X	3.6 [3.7]
T-Pb	0.0085

MW-23	
Date	4/23/2014
GRO	1.7
B	0.039
T	<0.0010 V
E	<0.0010 V
X	0.0026
T-Pb	<0.0050

A-23R	
Date	4/22/2014
GRO	<0.25
B	<0.0010 O
T	<0.0010 O
E	<0.0010 O
X	<0.0010 O
D-Pb	<0.0050
T-Pb	<0.0050

A-21	
Date	4/23/2014
GRO	<0.25
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	<0.0050

A-14R	
Date	4/23/2014
GRO	<0.25
DRO	<0.25
HO	<0.50
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	<0.0050

MW-25	
Date	4/23/2014
GRO	<0.25
DRO	0.65
DRO SGC	0.25
HO	<0.50
HO-SGC	<0.50
B	0.0014
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	<0.0050

A-10	
Date	4/23/2014
GRO	<0.25
DRO	0.27
DRO SGC	<0.25
HO	<0.50
HO SGC	<0.50
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050
T-Pb	--

LEGEND

- SH-02 — GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
- MW-7 — GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
- MW-12R — REPLACEMENT GROUNDWATER MONITORING WELL (INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 21, 2002)
- MW-25 — MONITORING WELLS INSTALLED SEPTEMBER 30, 2003
- WELL INACCESSIBLE OR DAMAGED
- GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- TMW-2 — PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
- TMW-E3 — TEMPORARY MONITORING WELL INSTALLED BEFORE JUNE 2013
- **BOLD** — CONCENTRATIONS DETECTED ABOVE SITE SPECIFIC CLEANUP LEVELS

SAMPLE ID	
Date	Date Collected
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
DRO SGC	DRO with Silica Gel Cleanup
HO	Heavy Oil Range Organics
HO SGC	HO with Silica Gel Cleanup
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total Xylenes
T-Pb	Total Lead

NOTES:
< = LESS THAN THE LABORATORY REPORTING LIMIT.
1.9 [2.4] = SAMPLE RESULT [BLIND DUPLICATE RESULT].
ALL CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER (mg/L)
O = REPORTING LIMITS WERE INCREASED DUE TO SAMPLE FOAMING.
V = REPORTING LIMITS WERE INCREASED DUE TO HIGH CONCENTRATIONS OF THE TARGET ANALYTES.

11th AVENUE S.W.

13th AVENUE S.W.

'E' YARD
'C' YARD
'D' YARD
'B' YARD
'A' YARD

Tank 43, Tank 44, Tank 42, Tank 37, Tank 39, Tank 35, Tank 21, Tank 25, Tank 19, Tank 20, Tank 23, Tank 29, Tank 24, Tank 27, Tank 28, Tank 32, Tank 31, Tank 33, Tank 26, Tank 22

WAREHOUSE, MAINTENANCE BUILDINGS, BBL STORAGE, RAMP, GATE, PROPERTY LINE, OLYMPIC PIPELINE LEASE AREA, TRUCK LOADING RACK, GARAGE, OFFICE BUILDING, PARKING, FENCE, RE-ESTABLISHED PROPERTY LINE (APPROXIMATE), FORMER PROPERTY LINE

0 60' 120' 240'

KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
PERIODIC REVIEW

SECOND QUARTER 2014 GROUNDWATER ANALYTICAL RESULTS

ARCADIS

FIGURE 10

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(On|Off|*)=*OFF*=*REF* LAYOUT: 10 SAVED: 12/9/2014 2:38 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 12/5/2014 2:38 PM BY: REYES, ALEC
G:\ENVCAD\Emeryville\ACTIVITY\WA000804\2014\000552014\Period\Rev\DWG\WA000804 C10.dwg
XREFS: X-SITEBASE WA000804 IMAGES: PROJECTNAME: ----

'D' YARD

'B' YARD

Tank 37

Tank 35

Tank 21

Tank 20

Tank 27

Tank 32

Tank 25

Tank 33

BBL STORAGE

WALL OPENING

APPROXIMATE OVERHEAD PIPE LOCATION

12'

3,200 S.F.

APPROXIMATE OVERHEAD PIPE LOCATION

RAMP

GATE

13' INGRESS/EGRESS

'B' YARD INGRESS/EGRESS

MW-14

MW-5

MW-19

MW-7

MW-22

MW-6

TMW-B1

TMW-1

TMW-2

TMW-3

TMW-4

TMW-5

TMW-6

/W-C3

22

21

20

19

17

16

15

13

12

11

LEGEND

- SH-02 — GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
- MW-7 — GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
- MW-12R — REPLACEMENT GROUNDWATER MONITORING WELL (INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 21, 2002)
- MW-25 — MONITORING WELLS (INSTALLED SEPTEMBER 30, 2003)
- 3 — FORMER GROUNDWATER MONITORING WELL (ABANDONED JUNE 2003)
- LAND APPLICATION AREA
- ASPHALT REMOVAL AREA
- WATER SOURCE LOCATION
- PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
- IRRIGATION ROTOR LOCATION
- IRRIGATION PIPING
- CONCRETE WALL
- ASPHALT RESTORATION AREA

0 20' 40' 80'

KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
PERIODIC REVIEW

LAND APPLICATION AREA AND IRRIGATION MAP

ARCADIS

FIGURE
11

CITY:(Req'd) DIV/GROUP:(Req'd) DB:(Req'd) LD:(Opt) PIC:(Opt) PM:(Req'd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Emeryville\ACTIVITY\WA000804\2014\000\5\2014PeriodRev\DWG\WA000804 C11.dwg LAYOUT: 11 SAVED: 12/5/2014 2:39 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 12/5/2014 2:40 PM BY: REYES, ALEC
XREFS:
IMAGES:
PROJECTNAME:

TABLES

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-1	02/11/02	10.93	7.47	--	3.46	
A-1	05/20/02	10.93	9.99	--	0.94	
A-1	08/27/02	10.93	4.72	--	6.21	
A-1	11/04/02	10.93	8.95	--	1.98	
A-1	02/18/03	10.93	7.92	--	3.01	
A-1	06/09/03	10.93	8.47	--	2.46	
A-1	09/15/03	14.64	8.83	--	5.81	
A-1	11/18/03	14.64	8.45	--	6.19	
A-1	02/24/04	14.64	7.89	--	6.75	
A-1	05/10/04	14.64	8.53	--	6.11	
A-1	08/24/04	14.64	8.73	--	5.91	
A-1	12/13/04	14.64	8.45	--	6.19	
A-1	03/08/05	14.64	8.59	--	6.05	
A-1	06/06/05	14.64	8.41	--	6.23	
A-1	09/19/05	14.64	8.87	--	5.77	
A-1	12/12/05	14.64	8.63	--	6.01	
A-1	03/13/06	14.64	7.95	--	6.69	
A-1	06/05/06	14.64	8.37	--	6.27	
A-1	09/11/06	14.64	8.81	--	5.83	
A-1	12/11/06	14.64	7.95	--	6.69	
A-2	02/11/02	10.85	7.41	--	3.44	
A-2	05/20/02	10.85	9.28	--	1.57	
A-2	08/27/02	10.85	4.66	--	6.19	
A-2	11/04/02	10.85	8.90	--	1.95	
A-2	02/18/03	10.85	7.98	--	2.87	
A-2	06/09/03	10.85	8.41	--	2.44	
A-2	09/15/03	14.66	8.77	--	5.89	
A-2	11/18/03	14.66	8.35	--	6.31	
A-2	02/24/04	14.66	7.80	--	6.86	
A-2	05/10/04	14.66	8.51	--	6.15	
A-2	08/24/04	14.66	8.55	--	6.11	
A-2	12/13/04	14.66	8.38	--	6.28	
A-2	03/08/05	14.66	8.77	--	5.89	
A-2	06/06/05	14.66	8.45	--	6.21	
A-2	09/19/05	14.66	8.79	--	5.87	
A-2	12/12/05	14.66	8.58	--	6.08	
A-2	03/13/06	14.66	7.81	--	6.85	
A-2	06/05/06	14.66	8.29	--	6.37	
A-2	09/11/06	14.66	8.76	--	5.90	
A-2	12/11/06	14.66	7.96	--	6.70	
A-3	02/11/02	10.50	7.30	<0.01	3.20*	
A-3	05/20/02	10.50	9.03	--	1.47	
A-3	08/27/02	10.50	8.43	--	2.07	
A-3	11/04/02	10.50	8.64	--	1.86	
A-3	02/18/03	10.50	7.61	--	2.89	
A-3	06/09/03	10.50	8.19	--	2.31	
A-3	09/15/03	14.32	8.50	--	5.82	
A-3	11/18/03	14.32	7.56	--	6.76	
A-3	02/24/04	14.32	7.56	--	6.76	
A-3	05/10/04	14.32	8.12	--	6.20	
A-3	08/24/04	14.32	8.23	--	6.09	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-3	12/13/04	14.32	7.85	--	6.47	
A-3	03/08/05	14.32	8.20	--	6.12	
A-3	06/06/05	14.32	8.03	--	6.29	
A-3	09/19/05	14.32	8.50	--	5.82	
A-3	12/12/05	14.32	8.32	--	6.00	
A-3	03/13/06	14.32	7.51	--	6.81	
A-3	06/05/06	14.32	7.96	--	6.36	
A-3	09/11/06	14.32	8.46	--	5.86	
A-3	12/11/06	14.32	7.56	--	6.76	
A-4	02/11/02	10.74	7.38	0.14	3.47*	
A-4	05/20/02	10.74	8.20	0.02	2.56*	
A-4	08/27/02	10.74	7.62	0.04	3.15*	
A-4	11/04/02	10.74	7.92	Sheen	2.82	Product recovery pump in well
A-4	02/18/03	10.74	7.84	Sheen	2.90	Product recovery pump in well
A-4	06/09/03	10.74	6.40	0.10	4.42*	Product recovery pump in well
A-4	09/15/03	13.22	8.38	0.10	4.92*	Product recovery pump in well
A-4	11/18/03	13.22	6.65	0.01	6.58*	Product recovery pump in well
A-4	02/24/04	13.22	7.00	--	6.22	Product recovery pump in well
A-4	05/10/04	13.22	6.79	--	6.43	Product recovery pump in well
A-4	08/24/04	13.22	7.76	--	5.46	Product recovery pump in well
A-4	12/13/04	13.22	6.10	Sheen	7.12	
A-4	03/08/05	13.22	7.21	Sheen	6.01	
A-4	06/06/05	13.22	7.23	Sheen	5.99	
A-4	09/19/05	13.22	7.78	--	5.44	
A-4	12/12/05	13.22	7.77	--	5.45	
A-4	03/13/06	13.22	6.85	--	6.37	
A-4	06/05/06	13.22	7.30	Sheen	5.92	
A-4	09/11/06	13.22	8.02	0.01	5.21*	
A-4	12/11/06	13.22	7.04	--	6.18	
A-4	03/26/07	13.22	6.90	--	6.32	
A-4	06/18/07	13.22	7.29	--	5.93	
A-4	09/24/07	13.22	7.48	Sheen	5.74	
A-4	12/10/07	13.22	6.83	--	6.39	
A-4	03/03/08	13.22	7.11	0.01	6.12*	
A-4	06/02/08	13.22	7.52	Sheen	5.70	
A-4	09/04/08	13.22	7.57	Sheen	5.65	
A-4	12/04/08	13.22	7.44	--	5.78	
A-4	03/04/09	13.22	7.09	--	6.13	
A-4	06/01/09	13.22	7.32	Sheen	5.90	
A-4	09/21/09	13.22	7.61	Sheen	5.61	
A-4	11/16/09	13.22	6.97	Sheen	6.25	
A-4	03/08/10	13.22	6.54	--	6.68	
A-4	06/07/10	13.22	6.92	Sheen	6.30	
A-4	09/09/10	13.22	7.59	--	5.63	
A-4	11/16/10	13.22	7.11	--	6.11	
A-4	03/01/11	13.22	6.66	--	6.56	
A-4	05/23/11	13.22	6.84	Sheen	6.38	
A-4	08/29/11	13.22	7.50	--	5.72	
A-4	12/01/11	13.22	7.16	--	6.06	
A-4	03/01/12	13.22	--	--	--	Not Measured
A-4	05/30/12	13.22	6.88	--	6.34	
A-4	08/25/12	13.22	7.17	--	6.05	

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Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-4	11/07/12	13.22	6.77	--	6.45	
A-4	02/28/13	13.22	6.69	--	6.53	
A-4	04/08/13	13.22	6.83	--	6.39	
A-4	07/29/13	13.22	7.23	--	5.99	
A-4	10/02/13	13.22	5.10	--	8.12	
A-4	01/21/14	13.22	7.12	--	6.10	
A-4	04/22/14	13.22	6.71	--	6.51	
A-4	07/15/14	13.22	7.09	--	6.13	
A-5	02/11/02	10.42	7.00	--	3.42	
A-5	05/20/02	10.42	8.89	--	1.53	
A-5	08/27/02	10.42	8.25	--	2.17	
A-5	11/04/02	10.42	8.43	--	1.99	
A-5	02/18/03	10.42	7.35	--	3.07	
A-5	06/09/03	10.42	7.99	--	2.43	
A-5	09/15/03	14.13	8.33	Sheen	5.80	
A-5	11/18/03	14.13	7.82	--	6.31	
A-5	02/24/04	14.13	6.45	--	7.68	
A-5	05/10/04	14.13	8.04	--	6.09	
A-5	08/24/04	14.13	8.02	--	6.11	
A-5	12/13/04	14.13	7.88	--	6.25	
A-5	03/08/05	14.13	8.00	--	6.13	
A-5	06/06/05	14.13	7.89	--	6.24	
A-5	09/19/05	14.13	8.37	--	5.76	
A-5	12/12/05	14.13	8.15	--	5.98	
A-5	03/13/06	14.13	7.39	--	6.74	
A-5	06/05/06	14.13	7.82	--	6.31	
A-5	09/11/06	14.13	8.34	--	5.79	
A-5	12/11/06	14.13	7.41	--	6.72	
A-5	03/26/07	14.13	7.41	--	6.72	
A-5	06/18/07	14.13	8.32	--	5.81	
A-5	09/24/07	14.13	8.32	--	5.81	
A-5	12/10/07	14.13	7.66	--	6.47	
A-5	03/03/08	14.13	7.78	--	6.35	
A-5	06/02/08	14.13	8.21	--	5.92	
A-5	09/04/08	14.13	8.10	--	6.03	
A-5	12/04/08	14.13	8.15	--	5.98	
A-5	03/04/09	14.13	7.76	--	6.37	
A-5	06/01/09	14.13	8.03	--	6.10	
A-5	09/21/09	14.13	8.35	--	5.78	
A-5	11/16/09	14.13	7.70	--	6.43	
A-5	03/08/10	14.13	7.21	--	6.92	
A-5	06/07/10	14.13	7.74	--	6.39	
A-5	09/09/10	14.13	8.26	--	5.87	
A-5	11/15/10	14.13	7.85	--	6.28	
A-5	03/01/11	14.13	7.47	--	6.66	
A-5	05/23/11	14.13	7.58	--	6.55	
A-5	08/29/11	14.13	8.17	--	5.96	
A-5	12/01/11	14.13	7.89	--	6.24	
A-5	03/01/12	14.13	7.62	--	6.51	
A-5	05/30/12	14.13	7.67	--	6.46	
A-5	08/25/12	14.13	7.91	--	6.22	
A-5	11/07/12	14.13	7.54	--	6.59	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-5	02/27/13	14.13	7.59	--	6.54	
A-5	04/08/13	14.13	7.56	--	6.57	
A-5	07/29/13	14.13	7.88	--	6.25	
A-5	10/02/13	14.13	7.64	--	6.49	
A-5	01/21/14	14.13	7.92	--	6.21	
A-5	04/22/14	14.13	7.50	--	6.63	
A-5	07/15/14	14.13	7.85	--	6.28	
A-6	02/11/02	--	6.40	0.13	--	Not Measured-Casing Broken
A-6	05/20/02	--	8.13	0.14	--	Not Measured-Casing Broken
A-6	08/27/02	--	7.80	0.45	--	Not Measured-Casing Broken
A-6	11/04/02	--	7.33	0.01	--	Not Measured-Product recovery pump in well, Casing Broken
A-6	02/18/03	--	8.50	Sheen	--	Not Measured-Product recovery pump in well, Casing Broken
A-6	06/09/03	--	7.45	0.01	--	Not Measured-Re-cut TOC; repaired
A-6	09/15/03	12.81	7.77	0.01	5.05*	Product recovery pump in well
A-6	11/18/03	12.81	7.46	0.54	5.78*	Product recovery pump in well
A-6	02/24/04	12.81	6.65	0.40	6.48*	Product recovery pump in well
A-6	05/10/04	12.81	6.95	0.10	5.94*	Product recovery pump in well
A-6	08/24/04	12.81	7.21	0.21	5.77*	Product recovery pump in well
A-6	12/13/04	12.81	6.80	0.14	6.12*	
A-6	03/08/05	12.81	6.98	0.32	6.09*	
A-6	06/06/05	12.81	6.81	0.04	6.03*	
A-6	09/19/05	12.81	7.81	0.59	5.47*	
A-6	10/12/05	12.81	7.95	0.50	5.26*	
A-6	12/12/05	12.81	8.20	0.95	5.37*	
A-6	03/13/06	12.81	6.68	0.08	6.19*	
A-6	06/05/06	12.81	7.10	0.13	5.81*	
A-6	09/11/06	12.81	7.82	0.27	5.21*	
A-6	12/11/06	12.81	6.58	0.02	6.25*	
A-6	03/26/07	12.81	6.51	--	6.30	
A-6	06/18/07	12.81	7.00	--	5.81	
A-6	09/24/07	12.81	7.20	Sheen	5.61	
A-6	12/10/07	12.81	6.58	--	6.23	
A-6	03/03/08	12.81	6.59	--	6.22	
A-6	06/02/08	12.81	7.05	Sheen	5.76	
A-6	09/04/08	12.81	7.19	Sheen	5.62	
A-6	12/04/08	12.81	7.15	Sheen	5.66	
A-6	03/04/09	12.81	6.51	Sheen	6.30	
A-6	06/01/09	12.81	7.00	Sheen	5.81	
A-6	09/21/09	12.81	7.24	Sheen	5.57	
A-6	11/16/09	12.81	6.50	Sheen	6.31	
A-6	03/08/10	12.81	6.14	--	6.67	
A-6	06/07/10	12.81	6.71	Sheen	6.10	
A-6	09/09/10	12.81	7.12	--	5.69	
A-6	11/15/10	12.81	6.79	Sheen	6.02	
A-6	03/01/11	12.81	6.38	Sheen	6.43	
A-6	05/23/11	12.81	6.52	Sheen	6.29	
A-6	08/29/11	12.81	7.04	0.03	5.79*	
A-6	12/01/11	12.81	6.95	Sheen	5.86	
A-6	03/01/12	12.81	6.60	--	6.21	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-6	05/30/12	12.81	6.58	--	6.23	
A-6	08/25/12	12.81	7.18	--	5.63	
A-6	11/07/12	12.81	6.61	--	6.20	
A-6	02/27/13	12.81	6.54	--	6.27	
A-6	04/08/13	12.81	6.46	--	6.35	
A-6	07/29/13	12.81	6.83	--	5.98	
A-6	10/02/13	12.81	6.66	Sheen	6.15	0.04 ft of SPH observed. Absorbent sock placed in well.
A-6	01/21/14	12.81	6.80	--	6.01	
A-6	04/22/14	12.81	6.32	--	6.49	
A-6	07/15/14	12.81	6.69		6.12	
A-7	02/11/02	9.50	6.25	--	3.25	
A-7	05/20/02	9.50	8.10	--	1.40	
A-7	08/27/02	9.50	7.40	--	2.10	
A-7	11/04/02	9.50	7.55	--	1.95	
A-7	02/18/03	9.50	7.53	--	1.97	
A-7	06/09/03	9.50	7.12	--	2.38	
A-7	09/15/03	13.43	7.45	--	5.98	
A-7	11/18/03	13.43	6.78	--	6.65	
A-7	02/24/04	13.43	6.89	--	6.54	
A-7	05/10/04	13.43	6.66	--	6.77	
A-7	08/24/04	13.43	7.67	--	5.76	
A-7	12/13/04	13.43	6.88	--	6.55	
A-7	03/08/05	13.43	4.45	--	8.98	
A-7	06/06/05	13.43	6.84	--	6.59	
A-7	09/19/05	13.43	7.47	--	5.96	
A-7	12/12/05	13.43	7.22	--	6.21	
A-7	03/13/06	13.43	6.41	--	7.02	
A-7	06/05/06	13.43	6.90	--	6.53	
A-7	09/11/06	13.43	7.53	--	5.90	
A-7	12/11/06	13.43	6.69	--	6.74	
A-8	02/11/02	10.46	6.98	--	3.48	
A-8	05/20/02	10.46	8.87	--	1.59	
A-8	08/27/02	10.46	7.26	--	3.20	
A-8	11/04/02	10.46	8.51	--	1.95	
A-8	02/18/03	10.46	4.83	--	5.63	
A-8	06/09/03	10.46	8.11	--	2.35	
A-8	09/15/03	14.61	8.38	--	6.23	
A-8	11/18/03	14.61	7.87	Sheen	6.74	
A-8	02/24/04	14.61	7.43	--	7.18	
A-8	05/10/04	14.61	8.04	--	6.57	
A-8	08/24/04	14.61	8.18	--	6.43	
A-8	12/13/04	14.61	7.90	--	6.71	
A-8	03/08/05	14.61	8.11	--	6.50	
A-8	06/06/05	14.61	7.98	--	6.63	
A-8	09/19/05	14.61	8.44	--	6.17	
A-8	12/12/05	14.61	8.22	--	6.39	
A-8	03/13/06	14.61	7.49	--	7.12	
A-8	06/05/06	14.61	7.89	--	6.72	
A-8	09/11/06	14.61	8.45	--	6.16	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-8	12/11/06	14.61	7.66	--	6.95	
A-8	03/26/07	14.61	7.71	--	6.90	
A-8	06/18/07	14.61	8.27	--	6.34	
A-8	09/24/07	14.61	8.50	--	6.11	
A-8	12/10/07	14.61	7.44	--	7.17	
A-8	03/03/08	14.61	7.83	--	6.78	
A-8	06/02/08	14.61	8.20	--	6.41	
A-8	09/04/08	14.61	--	--	--	Inaccessible
A-8	12/04/08	14.61	8.20	--	6.41	
A-8	03/04/09	14.61	7.70	--	6.91	
A-8	06/01/09	14.61	8.11	--	6.50	
A-8	09/21/09	14.61	8.37	--	6.24	
A-8	11/16/09	14.61	7.70	--	6.91	
A-8	03/08/10	14.61	7.31	--	7.30	
A-8	06/07/10	14.61	7.85	--	6.76	
A-8	09/09/10	14.61	8.28	--	6.33	
A-8	11/15/10	14.61	7.94	--	6.67	
A-8	03/01/11	14.61	7.56	--	7.05	
A-8	05/23/11	14.61	7.70	--	6.91	
A-8	08/29/11	14.61	8.21	--	6.40	
A-8	12/01/11	14.61	8.06	--	6.55	
A-8	03/01/12	14.61	7.74	--	6.87	
A-8	05/30/12	14.61	7.87	--	6.74	
A-8	08/25/12	14.61	7.97	--	6.64	
A-8	11/07/12	14.61	7.63	--	6.98	
A-8	02/27/13	14.61	8.71	--	5.90	
A-8	04/08/13	14.61	7.67	--	6.94	
A-8	07/29/13	14.61	7.98	--	6.63	
A-8	10/02/13	14.61	7.75	--	6.86	
A-8	01/21/14	14.61	7.98	--	6.63	
A-8	04/22/14	14.61	7.52	--	7.09	
A-8	07/15/14	14.61	7.89	--	6.72	
A-9	02/11/02	10.35	7.20	0.01	3.16*	
A-9	05/20/02	10.35	8.86	--	1.49	
A-9	08/27/02	10.35	8.27	Sheen	2.08	
A-9	11/04/02	10.35	8.39	0.01	1.97*	
A-9	02/18/03	10.35	7.45	--	2.90	
A-9	06/09/03	10.35	8.06	--	2.29	
A-9	09/15/03	14.42	8.03	--	6.39	
A-9	11/18/03	14.42	7.62	--	6.80	
A-9	02/24/04	14.42	7.21	--	7.21	
A-9	05/10/04	14.42	8.00	--	6.42	
A-9	08/24/04	14.42	8.18	--	6.24	
A-9	12/13/04	14.42	7.73	--	6.69	
A-9	03/08/05	14.42	8.00	--	6.42	
A-9	06/06/05	14.42	7.89	--	6.53	
A-9	09/19/05	14.42	8.28	--	6.14	
A-9	12/12/05	14.42	8.04	--	6.38	
A-9	03/13/06	14.42	7.37	--	7.05	
A-9	06/05/06	14.42	7.79	--	6.63	
A-9	09/11/06	14.42	8.36	--	6.06	
A-9	12/11/06	14.42	7.46	--	6.96	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-10	02/11/02	9.48	6.15	--	3.33	
A-10	05/20/02	9.48	7.98	--	1.50	
A-10	08/27/02	9.48	7.34	Sheen	2.14	
A-10	11/04/02	9.48	7.54	Sheen	1.94	
A-10	02/18/03	9.48	6.57	--	2.91	
A-10	06/09/03	9.48	7.15	--	2.33	
A-10	09/15/03	13.51	7.45	Sheen	6.06	
A-10	11/18/03	13.51	6.95	Sheen	6.56	
A-10	02/24/04	13.51	6.50	Sheen	7.01	
A-10	05/10/04	13.51	7.15	Sheen	6.36	
A-10	08/24/04	13.51	7.31	--	6.20	
A-10	12/13/04	13.51	6.95	--	6.56	
A-10	03/08/05	13.51	7.17	--	6.34	
A-10	06/06/05	13.51	7.01	--	6.50	
A-10	09/19/05	13.51	7.54	--	5.97	
A-10	12/12/05	13.51	7.25	--	6.26	
A-10	03/13/06	13.51	6.58	--	6.93	
A-10	06/05/06	13.51	6.92	--	6.59	
A-10	09/11/06	13.51	7.43	--	6.08	
A-10	12/11/06	13.51	6.59	--	6.92	
A-10	03/26/07	13.51	6.83	--	6.68	
A-10	06/18/07	13.51	7.29	--	6.22	
A-10	09/24/07	13.51	7.44	--	6.07	
A-10	12/10/07	13.51	6.79	--	6.72	
A-10	03/03/08	13.51	7.83	--	5.68	
A-10	06/02/08	13.51	7.31	--	6.20	
A-10	09/04/08	13.51	7.23	--	6.28	
A-10	12/04/08	13.51	6.87	--	6.64	
A-10	03/04/09	13.51	6.90	--	6.61	
A-10	06/01/09	13.51	7.18	--	6.33	
A-10	09/21/09	13.51	7.39	--	6.12	
A-10	11/16/09	13.51	6.84	--	6.67	
A-10	03/08/10	13.51	6.34	--	7.17	
A-10	06/07/10	13.51	6.84	--	6.67	
A-10	09/09/10	13.51	7.34	--	6.17	
A-10	11/15/10	13.51	6.93	--	6.58	
A-10	03/01/11	13.51	6.60	--	6.91	
A-10	05/23/11	13.51	6.68	--	6.83	
A-10	08/29/11	13.51	7.25	--	6.26	
A-10	12/01/11	13.51	6.96	--	6.55	
A-10	03/01/12	13.51	6.72	--	6.79	
A-10	05/30/12	13.51	6.72	--	6.79	
A-10	08/25/12	13.51	7.30	--	6.21	
A-10	11/07/12	13.51	7.08	--	6.43	
A-10	02/27/13	13.51	6.64	--	6.87	
A-10	04/08/13	13.51	6.61	--	6.90	
A-10	07/29/13	13.51	6.95	--	6.56	
A-10	10/02/13	13.51	6.46	--	7.05	
A-10	01/21/14	13.51	7.05	--	6.46	
A-10	04/22/14	13.51	6.65	--	6.86	
A-10	07/15/14	13.51	7.50	--	6.01	

Table 1

ARCADIS

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-11	02/11/02	10.36	7.01	--	3.35	
A-11	05/20/02	10.36	8.83	--	1.53	
A-11	08/27/02	10.36	8.21	--	2.15	
A-11	11/04/02	10.36	8.73	--	1.63	
A-11	02/18/03	10.36	5.42	--	4.94	
A-11	06/09/03	10.36	8.01	--	2.35	
A-11	09/15/03	14.40	8.32	--	6.08	
A-11	11/18/03	14.40	6.71	--	7.69	
A-11	02/24/04	14.40	7.35	--	7.05	
A-11	05/10/04	14.40	8.10	--	6.30	
A-11	08/24/04	14.40	8.17	--	6.23	
A-11	12/13/04	14.40	7.85	--	6.55	
A-11	03/08/05	14.40	7.90	--	6.50	
A-11	06/06/05	14.40	7.88	--	6.52	
A-11	09/19/05	14.40	8.34	0.01	6.07*	
A-11	10/12/05	14.40	8.24	--	6.16	
A-11	12/12/05	14.40	8.10	--	6.30	
A-11	03/13/06	14.40	7.40	--	7.00	
A-11	06/05/06	14.40	7.80	--	6.60	
A-11	09/11/06	14.40	8.32	--	6.08	
A-11	12/11/06	14.40	7.42	--	6.98	
A-11	12/10/07	14.40	7.64	--	6.76	
A-11	03/03/08	14.40	7.39	--	7.01	
A-11	03/04/09	14.40	7.70	--	6.70	
A-11	06/01/09	14.40	8.00	--	6.40	
A-11	09/21/09	14.40	8.26	--	6.14	
A-11	11/16/09	14.40	7.65	--	6.75	
A-11	03/08/10	14.40	7.20	--	7.20	
A-11	06/07/10	14.40	7.69	--	6.71	
A-11	09/09/10	14.40	8.20	--	6.20	
A-11	11/15/10	14.40	7.78	--	6.62	
A-11	03/01/11	14.40	7.43	--	6.97	
A-11	05/23/11	14.40	7.52	--	6.88	
A-11	08/29/11	14.40	8.09	--	6.31	
A-11	12/01/11	14.40	7.82	--	6.58	
A-11	03/01/12	14.40	7.55	--	6.85	
A-11	05/30/12	14.40	7.42	--	6.98	
A-11	08/25/12	14.40	7.63	--	6.77	
A-11	11/07/12	14.40	7.41	--	6.99	
A-11	02/27/13	14.40	7.42	--	6.98	
A-11	04/08/13	14.40	7.42	--	6.98	
A-11	07/29/13	14.40	7.75	--	6.65	
A-11	10/02/13	14.40	7.66	--	6.74	
A-11	01/21/14	14.40	7.93	--	6.47	
A-11	04/22/14	14.40	7.56	--	6.84	
A-11	07/15/14	14.40	7.91	--	6.49	
A-12	02/11/02	9.10	5.80	--	3.30	
A-12	05/20/02	9.10	8.68	--	0.42	
A-12	08/27/02	9.10	7.04	--	2.06	
A-12	11/04/02	9.10	7.23	--	1.87	
A-12	02/18/03	9.10	6.38	--	2.72	
A-12	06/09/03	9.10	6.83	--	2.27	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-12	09/15/03	12.92	7.15	--	5.77	
A-12	11/18/03	12.92	6.60	--	6.32	
A-12	02/24/04	12.92	6.12	--	6.80	
A-12	05/10/04	12.92	6.74	--	6.18	
A-12	08/24/04	12.92	6.95	--	5.97	
A-12	12/13/04	12.92	6.57	--	6.35	
A-12	03/08/05	12.92	6.75	Sheen	6.17	
A-12	06/06/05	12.95	6.39	--	6.56	
A-12	09/19/05	12.95	7.09	--	5.86	
A-12	12/12/05	12.95	6.89	--	6.06	
A-12	03/13/06	12.95	6.23	--	6.72	
A-12	06/05/06	12.95	6.60	--	6.35	
A-12	09/11/06	12.95	7.14	--	5.81	
A-12	12/11/06	12.95	6.28	--	6.67	
A-12	12/10/07	12.95	6.43	--	6.52	
A-12	03/03/08	12.95	6.50	--	6.45	
A-12	03/04/09	12.95	6.39	--	6.56	
A-12	06/01/09	12.95	6.86	--	6.09	
A-12	09/21/09	12.95	7.02	--	5.93	
A-12	11/16/09	12.95	6.38	--	6.57	
A-12	03/08/10	12.95	6.00	--	6.95	
A-12	06/07/10	12.95	6.54	--	6.41	
A-12	09/09/10	12.95	6.95	--	6.00	
A-12	11/15/10	12.95	6.60	--	6.35	
A-12	03/01/11	12.95	6.24	--	6.71	
A-12	05/23/11	12.95	6.34	--	6.61	
A-12	08/29/11	12.95	6.87	--	6.08	
A-12	12/01/11	12.95	6.66	--	6.29	
A-12	03/01/12	12.95	6.46	--	6.49	
A-12	05/30/12	12.95	6.35	--	6.60	
A-12	08/25/12	12.95	6.57	--	6.38	
A-12	11/07/12	12.95	6.27	--	6.68	
A-12	02/27/13	12.95	6.32	--	6.63	
A-12	04/08/13	12.95	6.28	--	6.67	
A-12	07/29/13	12.95	6.58	--	6.37	
A-12	10/02/13	12.95	6.41	--	6.54	
A-12	01/21/14	12.95	6.67	--	6.28	
A-12	04/22/14	12.95	6.29	--	6.66	
A-12	07/15/14	12.95	6.62	--	6.33	
A-13	03/27/01	--	--	--	--	Destroyed during construction activities
A-13	**Destroyed during construction activities**					
A-14	03/27/01	--	--	--	--	Destroyed during construction activities
A-14	**Destroyed during construction activities**					
A-14R	02/11/02	12.62	6.90	--	5.72	
A-14R	05/20/02	12.62	9.77	--	2.85	
A-14R	08/27/02	12.62	8.10	--	4.52	
A-14R	11/04/02	12.62	8.30	--	4.32	
A-14R	02/18/03	10.17	7.31	--	2.86	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-14R	06/09/03	10.17	4.82	--	5.35	
A-14R	09/15/03	14.21	8.20	--	6.01	
A-14R	11/18/03	14.21	6.10	Sheen	8.11	
A-14R	02/24/04	14.21	7.23	--	6.98	
A-14R	05/10/04	14.21	7.89	--	6.32	
A-14R	08/24/04	14.21	8.01	--	6.20	
A-14R	12/13/04	14.21	7.75	--	6.46	
A-14R	03/08/05	14.21	7.87	--	6.34	
A-14R	06/06/05	14.21	7.71	--	6.50	
A-14R	09/19/05	14.21	8.16	0.15	6.17*	
A-14R	10/12/05	14.21	8.01	--	6.20	
A-14R	12/12/05	14.21	7.95	--	6.26	
A-14R	03/13/06	14.21	7.26	--	6.95	
A-14R	06/05/06	14.21	7.64	--	6.57	
A-14R	09/11/06	14.21	8.15	--	6.06	
A-14R	12/11/06	14.21	7.30	--	6.91	
A-14R	03/26/07	14.21	7.51	--	6.70	
A-14R	06/18/07	14.21	7.98	--	6.23	
A-14R	09/24/07	14.21	8.18	--	6.03	
A-14R	12/10/07	14.21	7.51	--	6.70	
A-14R	03/03/08	14.21	7.56	--	6.65	
A-14R	06/02/08	14.21	8.02	--	6.19	
A-14R	09/04/08	14.21	7.71	--	6.50	
A-14R	12/04/08	14.21	7.92	--	6.29	
A-14R	03/04/09	14.21	7.62	--	6.59	
A-14R	06/01/09	14.21	7.91	--	6.30	
A-14R	09/21/09	14.21	8.08	--	6.13	
A-14R	11/16/09	14.21	7.57	--	6.64	
A-14R	03/08/10	14.21	7.05	--	7.16	
A-14R	06/07/10	14.21	7.56	--	6.65	
A-14R	09/09/10	14.21	8.05	--	6.16	
A-14R	11/15/10	14.21	7.63	--	6.58	
A-14R	03/01/11	14.21	7.31	--	6.90	
A-14R	05/23/11	14.21	7.40	--	6.81	
A-14R	08/29/11	14.21	7.97	--	6.24	
A-14R	12/01/11	14.21	7.68	--	6.53	
A-14R	03/01/12	14.21	7.42	--	6.79	
A-14R	05/30/12	14.21	7.44	--	6.77	
A-14R	08/25/12	14.21	7.59	--	6.62	
A-14R	11/07/12	14.21	7.33	--	6.88	
A-14R	02/27/13	14.21	7.38	--	6.83	
A-14R	04/08/13	14.21	7.34	--	6.87	
A-14R	07/29/13	14.21	7.67	--	6.54	
A-14R	10/02/13	14.21	7.51	--	6.70	
A-14R	01/21/14	14.21	7.76	--	6.45	
A-14R	04/22/14	14.21	7.36	--	6.85	
A-14R	07/15/14	14.21	7.76	--	6.45	
A-15	03/27/01	--	--	--	--	Destroyed during construction activities
A-15	**Destroyed during construction activities**					
A-16	02/11/02	10.49	7.23	0.01	3.27*	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-16	05/20/02	10.49	9.03	--	1.46	
A-16	08/27/02	10.49	8.41	0.04	2.11*	
A-16	11/04/02	10.49	8.81	0.28	1.90*	
A-16	02/18/03	10.49	7.51	Sheen	2.98	
A-16	06/09/03	10.49	8.16	--	2.33	
A-16	09/15/03	14.39	8.80	0.01	5.60*	
A-16	11/18/03	14.39	7.74	--	6.65	
A-16	02/24/04	14.39	7.54	--	6.85	
A-16	05/10/04	14.39	8.50	0.31	6.14*	
A-16	08/24/04	14.39	9.03	0.82	6.02*	
A-16	12/13/04	14.39	8.08	Sheen	6.31	
A-16	03/08/05	14.39	7.90	Sheen	6.49	
A-16	06/06/05	14.39	8.05	Sheen	6.34	
A-16	09/19/05	14.39	9.24	0.90	5.87*	
A-16	10/12/05	14.39	9.38	1.20	5.97*	
A-16	12/12/05	14.39	8.22	--	6.17	
A-16	03/13/06	14.39	7.75	--	6.64	
A-16	06/05/06	14.39	7.98	--	6.41	
A-16	09/11/06	14.39	9.20	0.90	5.91*	
A-16	12/11/06	14.39	7.69	Sheen	6.70	
A-16	03/26/07	14.39	7.78	Sheen	6.61	
A-16	06/18/07	14.39	8.45	0.34	6.21*	
A-16	09/24/07	14.39	8.45	0.02	5.96*	
A-16	12/10/07	14.39	7.65	0.01	6.75*	
A-16	03/03/08	14.39	7.88	Sheen	6.51	
A-16	06/02/08	14.39	8.77	0.04	5.65*	
A-16	09/04/08	14.39	7.38	0.04	7.04*	
A-16	12/04/08	14.39	8.27	--	6.12	
A-16	03/04/09	14.39	7.95	--	6.44	
A-16	06/01/09	14.39	8.50	Sheen	5.89	
A-16	09/21/09	14.39	8.80	0.35	5.87*	
A-16	11/16/09	14.39	7.95	Sheen	6.44	
A-16	03/08/10	14.39	7.40	--	6.99	
A-16	06/07/10	14.39	7.91	Sheen	6.48	
A-16	09/09/10	14.39	8.92	0.09	5.54*	
A-16	11/15/10	14.39	8.21	Sheen	6.18	
A-16	03/01/11	14.39	7.65	--	6.74	
A-16	05/23/11	14.39	7.79	--	6.60	
A-16	08/29/11	14.39	8.52	0.10	5.95*	
A-16	12/01/11	14.39	8.24	Sheen	6.15	
A-16	03/01/12	14.39	7.94	Sheen	6.45	
A-16	05/30/12	14.39	7.67	--	6.72	
A-16	08/25/12	14.39	7.79	--	6.60	
A-16	11/07/12	14.39	7.56	--	6.83	
A-16	02/27/13	14.39	7.66	--	6.73	
A-16	04/08/13	14.39	7.56	--	6.83	
A-16	07/29/13	14.39	7.88	--	6.51	
A-16	10/02/13	14.39	7.46	--	6.93	
A-16	01/21/14	14.39	8.05	--	6.34	
A-16	04/22/14	14.39	7.66	--	6.73	
A-16	07/15/14	14.39	8.04	--	6.35	
A-17	02/11/02	9.51	6.09	--	3.42	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-17	05/20/02	9.51	7.92	--	1.59	
A-17	08/27/02	9.51	7.33	--	2.18	
A-17	11/04/02	9.51	8.52	--	0.99	
A-17	02/18/03	9.51	6.51	--	3.00	
A-17	06/09/03	9.51	7.19	--	2.32	
A-17	09/15/03	13.41	7.43	--	5.98	
A-17	11/18/03	13.41	7.85	--	5.56	
A-17	02/24/04	13.41	6.47	--	6.94	
A-17	05/10/04	13.41	7.11	--	6.30	
A-17	08/24/04	13.41	7.12	--	6.29	
A-17	12/13/04	13.41	6.90	--	6.51	
A-17	03/08/05	13.41	7.15	--	6.26	
A-17	06/06/05	13.41	6.89	--	6.52	
A-17	09/19/05	13.41	7.55	--	5.86	
A-17	12/12/05	13.41	7.24	--	6.17	
A-17	03/13/06	13.41	6.50	--	6.91	
A-17	06/05/06	13.41	6.94	--	6.47	
A-17	09/11/06	13.41	8.34	--	5.07	
A-17	12/11/06	13.41	6.79	--	6.62	
A-18	02/11/02	10.72	7.42	--	3.30	
A-18	05/20/02	10.72	9.22	--	1.50	
A-18	08/27/02	10.72	8.59	--	2.13	
A-18	11/04/02	10.72	9.80	--	0.92	
A-18	02/18/03	10.72	8.36	--	2.36	
A-18	06/09/03	10.72	8.36	--	2.36	
A-18	09/15/03	14.74	8.65	--	6.09	
A-18	11/18/03	14.74	8.22	--	6.52	
A-18	02/24/04	14.74	7.06	--	7.68	
A-18	05/10/04	14.74	8.50	--	6.24	
A-18	08/24/04	14.74	8.56	--	6.18	
A-18	12/13/04	14.74	8.23	--	6.51	
A-18	03/08/05	14.74	8.33	--	6.41	
A-18	06/06/05	14.74	8.21	--	6.53	
A-18	09/19/05	14.74	8.67	0.02	6.09*	
A-18	10/12/05	14.74	8.55	--	6.19	
A-18	12/12/05	14.74	8.42	--	6.32	
A-18	03/13/06	14.74	7.74	--	7.00	
A-18	06/05/06	14.74	8.14	--	6.60	
A-18	09/11/06	14.74	8.63	--	6.11	
A-18	12/11/06	14.74	7.78	--	6.96	
A-18	12/10/07	14.74	7.81	--	6.93	
A-18	03/03/08	14.74	8.03	--	6.71	
A-18	03/04/09	14.74	8.07	--	6.67	
A-18	06/01/09	14.74	8.34	--	6.40	
A-18	09/21/09	14.74	8.57	--	6.17	
A-18	11/16/09	14.74	8.07	--	6.67	
A-18	03/08/10	14.74	7.54	--	7.20	
A-18	06/07/10	14.74	8.00	--	6.74	
A-18	09/09/10	14.74	8.53	--	6.21	
A-18	11/15/10	14.74	8.11	--	6.63	
A-18	03/01/11	14.74	7.75	--	6.99	
A-18	05/23/11	14.74	7.85	--	6.89	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-18	08/29/11	14.74	8.44	--	6.30	
A-18	12/01/11	14.74	8.11	--	6.63	
A-18	03/01/12	14.74	7.83	--	6.91	
A-18	05/30/12	14.74	7.75	--	6.99	
A-18	08/25/12	14.74	7.89	--	6.85	
A-18	11/07/12	14.74	7.68	--	7.06	
A-18	02/27/13	14.74	7.72	--	7.02	
A-18	04/08/13	14.74	7.05	--	7.69	
A-18	07/29/13	14.74	7.99	--	6.75	
A-18	10/02/13	14.74	7.93	--	6.81	
A-18	01/21/14	14.74	8.27	--	6.47	
A-18	04/22/14	14.74	7.84	--	6.90	
A-18	07/15/14	14.74	8.21	--	6.53	
A-19	02/11/02	10.76	7.52	0.07	3.30*	
A-19	05/20/02	10.76	9.19	--	1.57	
A-19	08/27/02	10.76	7.61	Sheen	3.15	
A-19	11/04/02	10.76	8.79	0.01	1.98*	
A-19	02/18/03	10.76	7.70	Sheen	3.06	
A-19	06/09/03	10.76	8.35	0.01	2.42*	
A-19	09/15/03	14.57	8.71	0.01	5.87*	
A-19	11/18/03	14.57	7.69	0.01	6.89*	
A-19	02/24/04	14.57	7.81	Sheen	6.76	
A-19	05/10/04	14.57	8.35	Sheen	6.22	
A-19	08/24/04	14.57	8.68	Sheen	5.89	
A-19	12/13/04	14.57	7.98	Sheen	6.59	
A-19	03/08/05	14.57	8.28	--	6.29	
A-19	06/06/05	14.57	7.26	--	7.31	
A-19	09/19/05	14.57	8.66	0.03	5.93*	
A-19	10/12/05	14.57	8.55	0.02	6.04*	
A-19	12/12/05	14.57	8.46	0.06	6.16*	
A-19	03/13/06	14.57	7.65	--	6.92	
A-19	06/05/06	14.57	8.10	--	6.47	
A-19	09/11/06	14.57	8.63	0.03	5.96*	
A-19	12/11/06	14.57	7.65	--	6.92	
A-19	03/26/07	14.57	7.89	--	6.68	
A-19	06/18/07	14.57	8.36	--	6.21	
A-19	09/25/07	14.57	8.64	--	5.93	
A-19	12/10/07	14.57	7.82	--	6.75	
A-19	03/03/08	14.57	7.95	--	6.62	
A-19	06/02/08	14.57	9.84	--	4.73	
A-19	09/04/08	14.57	8.30	--	6.27	
A-19	12/04/08	14.57	8.99	--	5.58	
A-19	03/04/09	14.57	7.89	--	6.68	
A-19	06/01/09	14.57	10.47	--	4.10	
A-19	09/21/09	14.57	8.53	--	6.04	
A-19	11/16/09	14.57	7.87	--	6.70	
A-19	03/08/10	14.57	7.45	--	7.12	
A-19	06/07/10	14.57	7.19	--	7.38	
A-19	09/09/10	14.57	8.41	--	6.16	
A-19	11/15/10	14.57	7.94	--	6.63	
A-19	03/01/11	14.57	7.72	--	6.85	
A-19	05/23/11	14.57	7.82	--	6.75	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-19	08/29/11	14.57	8.39	--	6.18	
A-19	12/01/11	14.57	8.14	--	6.43	
A-19	03/01/12	14.57	7.82	--	6.75	
A-19	05/30/12	14.57	7.75	--	6.82	
A-19	08/25/12	14.57	7.88	--	6.69	
A-19	11/07/12	14.57	7.22	--	7.35	
A-19	02/27/13	14.57	7.68	--	6.89	
A-19	04/08/13	14.57	7.68	--	6.89	
A-19	07/29/13	14.57	7.93	--	6.64	
A-19	10/02/13	14.57	7.78	--	6.79	
A-19	01/21/14	14.57	8.86	--	5.71	
A-19	04/22/14	14.57	7.72	--	6.85	
A-19	07/15/14	14.57	8.01	--	6.56	
A-20	02/11/02	10.30	7.16	--	3.14	
A-20	05/20/02	10.30	9.76	--	0.54	
A-20	08/27/02	10.30	5.19	--	5.11	
A-20	11/04/02	10.30	8.39	--	1.91	
A-20	02/18/03	10.30	7.38	--	2.92	
A-20	06/09/03	10.30	7.95	--	2.35	
A-20	09/15/03	14.19	8.25	--	5.94	
A-20	11/18/03	14.19	7.70	--	6.49	
A-20	02/24/04	14.19	7.29	0.02	6.92*	
A-20	05/10/04	14.19	7.99	--	6.20	
A-20	08/24/04	14.19	8.18	--	6.01	
A-20	12/13/04	14.19	7.65	--	6.54	
A-20	03/08/05	14.19	7.89	--	6.30	
A-20	06/06/05	14.19	7.81	--	6.38	
A-20	09/19/05	14.19	8.25	0.01	5.95*	
A-20	10/12/05	14.19	8.12	--	6.07	
A-20	12/12/05	14.19	8.00	--	6.19	
A-20	03/13/06	14.19	7.25	--	6.94	
A-20	06/05/06	14.19	7.72	--	6.47	
A-20	09/11/06	14.19	8.22	--	5.97	
A-20	12/11/06	14.19	7.28	--	6.91	
A-20	03/26/07	14.19	7.51	--	6.68	
A-20	06/18/07	14.19	7.98	--	6.21	
A-20	09/25/07	14.19	8.19	--	6.00	
A-20	12/10/07	14.19	7.45	--	6.74	
A-20	03/03/08	14.19	7.55	--	6.64	
A-20	06/02/08	14.19	8.48	--	5.71	
A-20	09/04/08	14.19	7.92	--	6.27	
A-20	12/04/08	14.19	7.99	--	6.20	
A-20	03/04/09	14.19	7.19	--	7.00	
A-20	06/01/09	14.19	8.38	--	5.81	
A-20	09/21/09	14.19	8.11	--	6.08	
A-20	11/16/09	14.19	7.43	--	6.76	
A-20	03/08/10	14.19	7.15	--	7.04	
A-20	06/07/10	14.19	7.54	--	6.65	
A-20	09/09/10	14.19	8.03	--	6.16	
A-20	11/15/10	14.19	7.51	--	6.68	
A-20	03/01/11	14.19	7.34	--	6.85	
A-20	05/23/11	14.19	7.45	--	6.74	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-20	08/29/11	14.19	8.03	--	6.16	
A-20	12/01/11	14.19	7.70	--	6.49	
A-20	03/01/12	14.19	7.41	--	6.78	
A-20	05/30/12	14.19	7.30	--	6.89	
A-20	08/25/12	14.19	7.46	--	6.73	
A-20	11/07/12	14.19	6.61	--	7.58	
A-20	02/27/13	14.19	7.21	--	6.98	
A-20	04/08/13	14.19	6.96	--	7.23	
A-20	07/29/13	14.19	7.46	--	6.73	
A-20	10/02/13	14.19	7.40	--	6.79	
A-20	01/21/14	14.19	7.77	--	6.42	
A-20	04/22/14	14.19	7.38	--	6.81	
A-20	07/15/14	14.19	7.66	--	6.53	
A-21	02/11/02	10.40	7.18	--	3.22	
A-21	05/20/02	10.40	9.88	Sheen	0.52	
A-21	08/27/02	10.40	8.28	--	2.12	
A-21	11/04/02	10.40	8.50	--	1.90	
A-21	02/18/03	10.40	7.47	--	2.93	
A-21	06/09/03	10.40	8.01	--	2.39	
A-21	09/15/03	14.35	8.65	--	5.70	
A-21	11/18/03	14.35	7.86	--	6.49	
A-21	02/24/04	14.35	7.43	--	6.92	
A-21	05/10/04	14.35	8.10	--	6.25	
A-21	08/24/04	14.35	8.29	--	6.06	
A-21	12/13/04	14.35	7.75	--	6.60	
A-21	03/08/05	14.35	8.00	--	6.35	
A-21	06/06/05	14.35	7.90	--	6.45	
A-21	09/19/05	14.35	8.24	--	6.11	
A-21	12/12/05	14.35	8.15	--	6.20	
A-21	03/13/06	14.35	7.38	--	6.97	
A-21	06/05/06	14.35	7.21	--	7.14	
A-21	09/11/06	14.35	8.31	--	6.04	
A-21	12/11/06	14.35	7.44	--	6.91	
A-21	03/26/07	14.35	7.64	--	6.71	
A-21	06/18/07	14.35	8.15	--	6.20	
A-21	09/25/07	14.35	8.30	--	6.05	
A-21	12/10/07	14.35	7.62	--	6.73	
A-21	03/03/08	14.35	7.67	--	6.68	
A-21	06/02/08	14.35	8.18	--	6.17	
A-21	09/04/08	14.35	8.09	--	6.26	
A-21	12/04/08	14.35	8.07	--	6.28	
A-21	03/04/09	14.35	7.51	--	6.84	
A-21	06/01/09	14.35	8.03	--	6.32	
A-21	09/21/09	14.35	8.27	--	6.08	
A-21	11/16/09	14.35	7.68	--	6.67	
A-21	03/08/10	14.35	7.26	--	7.09	
A-21	06/07/10	14.35	7.66	--	6.69	
A-21	09/09/10	14.35	8.19	--	6.16	
A-21	11/15/10	14.35	7.73	--	6.62	
A-21	03/01/11	14.35	7.42	--	6.93	
A-21	05/23/11	14.35	7.56	--	6.79	
A-21	08/29/11	14.35	8.11	--	6.24	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-21	12/01/11	14.35	7.81	--	6.54	
A-21	03/01/12	14.35	7.53	--	6.82	
A-21	05/30/12	14.35	7.37	--	6.98	
A-21	08/25/12	14.35	7.49	--	6.86	
A-21	11/07/12	14.35	7.04	--	7.31	
A-21	02/27/13	14.35	7.32	--	7.03	
A-21	04/08/13	14.35	7.23	--	7.12	
A-21	07/29/13	14.35	7.59	--	6.76	
A-21	10/02/13	14.35	7.57	--	6.78	
A-21	01/21/14	14.35	8.71	--	5.64	
A-21	04/22/14	14.35	7.59	--	6.76	
A-21	07/15/14	14.35	7.82	--	6.53	
A-22	09/21/01	10.69	--	--	--	Destroyed
A-22				**Destroyed**		
A-22R	02/11/02	10.22	7.10	0.13	3.22*	
A-22R	05/20/02	10.22	9.72	0.08	0.56*	
A-22R	08/27/02	10.22	8.20	0.16	2.15*	
A-22R	11/04/02	10.22	8.30	0.15	2.04*	
A-22R	02/18/03	10.22	7.14	0.02	3.10*	
A-22R	06/09/03	10.22	7.82	--	2.40	
A-22R	09/15/03	14.11	8.40	0.01	5.72*	
A-22R	11/18/03	14.11	7.70	0.05	6.45*	
A-22R	02/24/04	14.11	7.01	Sheen	7.10	
A-22R	05/10/04	14.11	7.68	<0.01	6.43*	
A-22R	08/24/04	14.11	7.90	0.18	6.35*	
A-22R	12/13/04	14.11	7.40	Sheen	6.71	
A-22R	03/08/05	14.11	7.08	--	7.03	
A-22R	06/06/05	14.11	7.21	--	6.90	
A-22R	09/19/05	14.11	8.11	0.01	6.01*	
A-22R	10/12/05	14.11	8.22	0.20	6.05*	
A-22R	12/12/05	14.11	7.87	--	6.24	
A-22R	03/13/06	14.11	7.15	--	6.96	
A-22R	06/05/06	14.11	7.75	--	6.36	
A-22R	09/11/06	14.11	8.16	--	5.95	
A-22R	12/11/06	14.11	7.14	--	6.97	
A-22R	03/26/07	14.11	7.34	--	6.77	
A-22R	06/18/07	14.11	7.86	--	6.25	
A-22R	12/10/07	14.11	7.38	--	6.73	
A-22R	03/03/08	14.11	7.47	--	6.64	
A-22R	06/02/08	14.11	8.90	--	5.21	
A-22R	09/04/08	14.11	--	--	--	Not Measured-Sock in well
A-22R	12/04/08	14.11	--	--	--	Not Measured-Sock in well
A-22R	03/04/09	14.11	--	--	--	Not Measured-Sock in well
A-22R	06/01/09	14.11	--	--	--	Not Measured-Sock in well
A-22R	09/21/09	14.11	--	--	--	Not Measured-Sock in well
A-22R	11/16/09	14.11	7.36	--	6.75	
A-22R	03/08/10	14.11	6.95	--	7.16	
A-22R	06/07/10	14.11	7.52	--	6.59	
A-22R	09/09/10	14.11	7.94	--	6.17	
A-22R	11/15/10	14.11	7.92	--	6.19	
A-22R	03/01/11	14.11	7.21	--	6.90	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-22R	05/23/11	14.11	7.35	--	6.76	
A-22R	08/29/11	14.11	7.87	--	6.24	
A-22R	12/01/11	14.11	7.75	--	6.36	
A-22R	03/01/12	14.11	7.37	--	6.74	
A-22R	05/30/12	14.11	7.48	--	6.63	
A-22R	08/25/12	14.11	7.62	--	6.49	
A-22R	11/07/12	14.11	7.18	--	6.93	
A-22R	02/27/13	14.11	7.38	--	6.73	
A-22R	04/08/13	14.11	7.31	--	6.80	
A-22R	07/29/13	14.11	7.64	--	6.47	
A-22R	10/02/13	14.11	7.01	--	7.10	
A-22R	01/21/14	14.11	7.63	--	6.48	
A-22R	04/22/14	14.11	7.11	--	7.00	
A-22R	07/15/14	14.11	7.46	--	6.65	
A-23	06/14/01	--	--	--	--	Destroyed during construction activities
A-23	**Destroyed during construction activities**					
A-23R	02/11/02	11.73	8.53	--	3.20	
A-23R	05/20/02	11.73	10.23	--	1.50	
A-23R	08/27/02	11.73	6.63	--	5.10	
A-23R	11/04/02	11.73	9.81	--	1.92	
A-23R	02/18/03	11.73	8.75	--	2.98	
A-23R	06/09/03	11.73	9.35	--	2.38	
A-23R	09/15/03	15.57	10.03	--	5.54	
A-23R	11/18/03	15.57	7.85	--	7.72	
A-23R	02/24/04	15.57	8.05	--	7.52	
A-23R	05/10/04	15.57	8.69	--	6.88	
A-23R	08/24/04	15.57	7.69	--	7.88	
A-23R	12/13/04	15.57	9.22	--	6.35	
A-23R	03/08/05	15.57	9.38	--	6.19	
A-23R	06/07/05	15.57	9.35	--	6.22	
A-23R	09/20/05	15.57	9.68	--	5.89	
A-23R	12/12/05	15.57	9.20	--	6.37	
A-23R	03/13/06	15.57	8.69	--	6.88	
A-23R	06/08/06	15.57	9.13	--	6.44	
A-23R	09/11/06	15.57	10.03	--	5.54	
A-23R	12/11/06	15.57	8.72	--	6.85	
A-23R	03/26/07	15.57	8.94	--	6.63	
A-23R	06/18/07	15.57	9.37	--	6.20	
A-23R	09/25/07	--	--	--	--	Not Measured-Inaccessible
A-23R	12/10/07	15.57	8.91	--	6.66	
A-23R	03/03/08	15.57	9.00	--	6.57	
A-23R	06/02/08	15.57	9.22	--	6.35	
A-23R	09/04/08	15.57	--	--	--	Not Measured-Inaccessible
A-23R	12/04/08	15.57	9.34	--	6.23	
A-23R	03/04/09	15.57	9.81	--	5.76	
A-23R	06/01/09	15.57	9.26	--	6.31	
A-23R	09/21/09	15.57	9.51	--	6.06	
A-23R	11/16/09	15.57	8.94	--	6.63	
A-23R	03/08/10	15.57	8.48	--	7.09	
A-23R	06/07/10	15.57	8.95	--	6.62	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-23R	09/09/10	15.57	9.45	--	6.12	
A-23R	11/16/10	15.57	9.01	--	6.56	
A-23R	03/01/11	15.57	8.68	--	6.89	
A-23R	05/24/11	15.57	8.85	--	6.72	
A-23R	08/29/11	15.57	9.41	--	6.16	
A-23R	12/01/11	15.57	9.09	--	6.48	
A-23R	03/01/12	15.57	8.79	--	6.78	
A-23R	05/30/12	15.57	8.73	--	6.84	
A-23R	08/25/12	15.57	--	--	--	Inaccessible due to site access issues
A-23R	11/07/12	15.57	8.52	--	7.05	
A-23R	02/27/13	15.57	8.45	--	7.12	
A-23R	04/08/13	15.57	8.63	--	6.94	
A-23R	07/29/13	15.57	8.92	--	6.65	
A-23R	10/02/13	15.57	8.81	--	6.76	
A-23R	01/21/14	15.57	9.16	--	6.41	
A-23R	04/22/14	15.57	5.74	--	9.83	
A-23R	07/15/14	15.57	9.11	--	6.46	
A-24	10/06/00	--	--	--	--	Destroyed during construction activities
A-24	**Destroyed during construction activities**					
A-25	02/11/02	10.12	6.78	--	3.34	
A-25	05/20/02	10.12	8.56	--	1.56	
A-25	08/27/02	10.12	7.99	--	2.13	
A-25	11/04/02	10.12	8.18	--	1.94	
A-25	02/18/03	10.12	7.08	--	3.04	
A-25	06/09/03	10.12	8.71	--	1.41	
A-25	09/15/03	13.90	8.05	--	5.85	
A-25	11/18/03	13.90	7.50	Sheen	6.40	
A-25	02/24/04	13.90	7.00	--	6.90	
A-25	05/10/04	13.90	7.75	--	6.15	
A-25	08/24/04	13.90	7.82	--	6.08	
A-25	12/13/04	13.90	7.46	--	6.44	
A-25	03/08/05	13.90	7.70	--	6.20	
A-25	06/06/05	13.90	7.53	--	6.37	
A-25	09/19/05	13.90	8.07	0.01	5.84*	
A-25	10/12/05	13.90	7.95	--	5.95	
A-25	12/12/05	13.90	7.79	--	6.11	
A-25	03/13/06	13.90	6.98	--	6.92	
A-25	06/05/06	13.90	7.43	--	6.47	
A-25	09/11/06	13.90	8.10	--	5.80	
A-25	12/11/06	13.90	7.05	--	6.85	
A-25	12/10/07	13.90	7.23	--	6.67	
A-25	03/03/08	13.90	7.36	--	6.54	
A-25	03/04/09	13.90	7.37	--	6.53	
A-25	06/01/09	13.90	7.81	--	6.09	
A-25	09/21/09	13.90	8.00	--	5.90	
A-25	11/16/09	13.90	7.16	--	6.74	
A-25	03/08/10	13.90	6.83	--	7.07	
A-25	06/07/10	13.90	7.36	--	6.54	
A-25	09/09/10	13.90	7.97	--	5.93	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-25	11/15/10	13.90	7.44	Sheen	6.46	
A-25	03/01/11	13.90	7.04	--	6.86	
A-25	05/23/11	13.90	7.18	--	6.72	
A-25	08/29/11	13.90	7.81	--	6.09	
A-25	12/01/11	13.90	7.52	--	6.38	
A-25	03/01/12	13.90	7.75	--	6.15	
A-25	05/30/12	13.90	7.30	--	6.60	
A-25	08/25/12	13.90	7.56	--	6.34	
A-25	11/07/12	13.90	7.11	--	6.79	
A-25	02/27/13	13.90	7.18	--	6.72	
A-25	04/08/13	13.90	7.08	--	6.82	
A-25	07/29/13	13.90	7.52	--	6.38	
A-25	10/02/13	13.90	7.23	--	6.67	
A-25	01/21/14	13.90	7.51	--	6.39	
A-25	04/22/14	13.90	7.03	--	6.87	
A-25	07/15/14	13.90	7.51	--	6.39	
A-26	03/27/01	--	--	--	--	Destroyed during construction of utility trench
A-26	**Destroyed during construction activities of utility trench**					
A-26R	02/11/02	10.39	7.13	0.02	3.28*	
A-26R	05/20/02	10.39	9.79	--	0.60	
A-26R	08/27/02	10.39	8.23	0.02	2.18*	
A-26R	11/04/02	10.39	8.41	0.04	2.01*	
A-26R	02/18/03	10.39	7.29	--	3.10	
A-26R	06/09/03	10.39	7.92	--	2.47	
A-26R	09/15/03	14.19	8.31	--	5.88	
A-26R	11/18/03	14.19	7.64	Sheen	6.55	
A-26R	02/24/04	14.19	7.17	--	7.02	
A-26R	05/10/04	14.19	7.93	--	6.26	
A-26R	08/24/04	14.19	8.10	--	6.09	
A-26R	12/13/04	14.19	7.55	--	6.64	
A-26R	03/08/05	14.19	7.80	--	6.39	
A-26R	06/06/05	14.19	7.18	--	7.01	
A-26R	09/19/05	14.19	8.25	0.01	5.95*	
A-26R	10/12/05	14.19	8.20	--	5.99	
A-26R	12/12/05	14.19	7.98	--	6.21	
A-26R	03/13/06	14.19	7.21	--	6.98	
A-26R	06/05/06	14.19	7.66	--	6.53	
A-26R	09/11/06	14.19	8.25	--	5.94	
A-26R	12/11/06	14.19	7.22	--	6.97	
A-26R	12/10/07	14.19	7.48	--	6.71	
A-26R	03/03/08	14.19	7.58	--	6.61	
A-26R	03/04/09	14.19	7.56	--	6.63	
A-26R	06/01/09	14.19	--	--	--	Not Measured-Inaccessible
A-26R	09/21/09	14.19	8.21	--	5.98	
A-26R	11/16/09	14.19	7.48	--	6.71	
A-26R	03/08/10	14.19	7.04	--	7.15	
A-26R	06/07/10	14.19	7.57	--	6.62	
A-26R	09/09/10	14.19	8.17	--	6.02	
A-26R	11/15/10	14.19	7.69	--	6.50	
A-26R	03/01/11	14.19	7.28	--	6.91	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-26R	05/23/11	14.19	7.40	--	6.79	
A-26R	08/29/11	14.19	7.99	--	6.20	
A-26R	12/01/11	14.19	7.81	--	6.38	
A-26R	03/01/12	14.19	7.47	--	6.72	
A-26R	05/30/12	14.19	7.55	--	6.64	
A-26R	08/25/12	14.19	7.73	--	6.46	
A-26R	11/07/12	14.19	7.37	--	6.82	
A-26R	02/27/13	14.19	7.42	--	6.77	
A-26R	04/08/13	14.19	7.34	--	6.85	
A-26R	07/29/13	14.19	7.69	--	6.50	
A-26R	10/02/13	14.19	7.41	--	6.78	
A-26R	01/21/14	14.19	7.69	--	6.50	
A-26R	04/22/14	14.19	7.23	--	6.96	
A-26R	07/15/14	14.19	7.71	--	6.48	
A-27	02/11/02	13.45	10.05	--	3.40	
A-27	05/20/02	13.45	12.84	--	0.61	
A-27	08/27/02	13.45	11.31	--	2.14	
A-27	11/04/02	13.45	11.46	--	1.99	
A-27	02/18/03	13.45	10.32	--	3.13	
A-27	06/09/03	13.45	10.97	--	2.48	
A-27	09/15/03	17.22	11.38	--	5.84	
A-27	11/18/03	17.22	10.75	--	6.47	
A-27	02/24/04	17.22	10.15	--	7.07	
A-27	05/10/04	17.22	8.00	--	9.22	
A-27	08/24/04	17.22	11.15	--	6.07	
A-27	12/13/04	17.22	7.80	--	9.42	
A-27	03/08/05	17.22	10.83	--	6.39	
A-27	06/06/05	17.22	10.80	--	6.42	
A-27	09/19/05	17.22	11.32	--	5.90	
A-27	12/12/05	17.22	11.01	--	6.21	
A-27	03/13/06	17.22	10.17	--	7.05	
A-27	06/05/06	17.22	10.69	--	6.53	
A-27	09/11/06	17.22	11.30	--	5.92	
A-27	12/11/06	17.22	10.16	--	7.06	
A-27	03/26/07	17.22	10.41	--	6.81	
A-27	06/18/07	17.22	11.00	--	6.22	
A-27	09/24/07	17.22	11.20	--	6.02	
A-27	12/10/07	17.22	10.41	--	6.81	
A-27	03/03/08	17.22	10.54	--	6.68	
A-27	06/02/08	17.22	11.06	--	6.16	
A-27	09/04/08	17.22	11.50	--	5.72	
A-27	12/04/08	17.22	11.05	--	6.17	
A-27	03/04/09	17.22	10.64	--	6.58	
A-27	06/01/09	17.22	10.87	--	6.35	
A-27	09/21/09	17.22	11.25	--	5.97	
A-27	11/16/09	17.22	10.50	--	6.72	
A-27	03/08/10	17.22	10.01	--	7.21	
A-27	06/07/10	17.22	10.54	--	6.68	
A-27	09/09/10	17.22	11.19	--	6.03	
A-27	11/15/10	17.22	10.61	--	6.61	
A-27	03/01/11	17.22	10.20	--	7.02	
A-27	05/23/11	17.22	10.30	--	6.92	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-27	08/29/11	17.22	11.03	--	6.19	
A-27	12/01/11	17.22	10.72	--	6.50	
A-27	03/01/12	17.22	10.44	--	6.78	
A-27	05/30/12	17.22	10.47	--	6.75	
A-27	08/25/12	17.22	10.78	--	6.44	
A-27	11/07/12	17.22	10.33	--	6.89	
A-27	02/27/13	17.22	10.28	--	6.94	
A-27	04/08/13	17.22	10.24	--	6.98	
A-27	06/21/13	17.22	10.68	--	6.54	Baseline monitoring event
A-27	07/29/13	17.22	10.69	--	6.53	
A-27	08/26/13	17.22	10.71	--	6.51	Two-month monitoring event
A-27	10/02/13	17.22	10.40	--	6.82	
A-27	01/21/14	17.22	10.63	--	6.59	
A-27	04/22/14	17.22	10.11	--	7.11	
A-27	07/15/14	17.22	10.68	--	6.54	
A-28	06/14/01	--	--	--	--	Destroyed during construction activities
A-28	**Destroyed during construction activities**					
A-28R	02/11/02	11.19	7.72	--	3.47	
A-28R	05/20/02	11.19	9.51	--	1.68	
A-28R	08/27/02	11.19	8.97	--	2.22	
A-28R	11/04/02	11.19	9.20	--	1.99	
A-28R	02/18/03	11.19	8.20	--	2.99	
A-28R	06/09/03	11.19	8.67	--	2.52	
A-28R	09/15/03	14.93	9.05	--	5.88	
A-28R	11/18/03	14.93	8.45	--	6.48	
A-28R	02/24/04	14.93	7.91	--	7.02	
A-28R	05/10/04	14.93	8.66	--	6.27	
A-28R	08/24/04	14.93	7.90	--	7.03	
A-28R	12/13/04	14.93	8.58	--	6.35	
A-28R	03/08/05	14.93	8.67	--	6.26	
A-28R	06/06/05	14.93	8.47	--	6.46	
A-28R	09/19/05	14.93	8.99	--	5.94	
A-28R	12/12/05	14.93	7.71	--	7.22	
A-28R	03/13/06	14.93	7.79	--	7.14	
A-28R	06/05/06	14.93	9.13	--	5.80	
A-28R	09/11/06	14.93	9.00	--	5.93	
A-28R	12/11/06	14.93	7.89	--	7.04	
A-28R	03/26/07	14.93	8.05	--	6.88	
A-28R	06/18/07	14.93	8.64	--	6.29	
A-28R	09/24/07	14.93	8.81	--	6.12	
A-28R	12/10/07	14.93	8.01	--	6.92	
A-28R	03/03/08	14.93	8.17	--	6.76	
A-28R	06/02/08	14.93	8.64	--	6.29	
A-28R	09/04/08	14.93	8.73	--	6.20	
A-28R	12/04/08	14.93	8.69	--	6.24	
A-28R	03/04/09	14.93	8.29	--	6.64	
A-28R	06/01/09	14.93	8.51	--	6.42	
A-28R	09/21/09	14.93	8.92	--	6.01	
A-28R	11/16/09	14.93	8.21	--	6.72	
A-28R	03/08/10	14.93	7.61	--	7.32	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-28R	06/07/10	14.93	8.14	--	6.79	
A-28R	09/09/10	14.93	8.73	--	6.20	
A-28R	11/15/10	14.93	8.22	--	6.71	
A-28R	03/01/11	14.93	7.80	--	7.13	
A-28R	05/23/11	14.93	7.89	--	7.04	
A-28R	08/29/11	14.93	8.70	--	6.23	
A-28R	12/01/11	14.93	8.32	--	6.61	
A-28R	03/01/12	14.93	7.95	--	6.98	
A-28R	05/30/12	14.93	8.04	--	6.89	
A-28R	08/25/12	14.93	8.35	--	6.58	
A-28R	11/07/12	14.93	7.89	--	7.04	
A-28R	02/27/13	14.93	7.78	--	7.15	
A-28R	04/08/13	14.93	7.67	--	7.26	
A-28R	07/29/13	14.93	8.20	--	6.73	
A-28R	10/02/13	14.93	7.88	--	7.05	
A-28R	01/21/14	14.93	8.20	--	6.73	
A-28R	04/22/14	14.93	7.59	--	7.34	
A-28R	07/15/14	14.93	8.35	--	6.58	
A-29	03/27/01	--	--	--	--	Destroyed during construction of utility trench
A-29	**Destroyed during construction activities of utility trench**					
A-29R	02/11/02	10.12	6.78	--	3.34	
A-29R	05/20/02	10.12	8.53	--	1.59	
A-29R	08/27/02	10.12	7.92	--	2.20	
A-29R	11/04/02	10.12	8.09	--	2.03	
A-29R	02/18/03	10.12	7.05	--	3.07	
A-29R	02/19/03	10.12	7.05	--	3.07	
A-29R	06/09/03	10.12	7.61	--	2.51	
A-29R	09/15/03	13.85	8.00	--	5.85	
A-29R	11/18/03	13.85	7.50	--	6.35	
A-29R	02/24/04	13.85	6.97	--	6.88	
A-29R	05/10/04	13.85	7.66	--	6.19	
A-29R	08/24/04	13.85	7.43	--	6.42	
A-29R	12/13/04	13.85	7.46	--	6.39	
A-29R	03/08/05	13.85	7.65	--	6.20	
A-29R	06/06/05	13.85	7.51	--	6.34	
A-29R	09/19/05	13.85	8.02	--	5.83	
A-29R	12/12/05	13.85	7.75	--	6.10	
A-29R	03/13/06	13.85	--	--	--	Not Measured-Inaccessible
A-29R	06/05/06	13.85	7.44	--	6.41	
A-29R	09/11/06	13.85	8.00	--	5.85	
A-29R	12/11/06	13.85	7.07	--	6.78	
A-29R	03/26/07	13.85	7.25	--	6.60	
A-29R	06/18/07	13.85	7.58	--	6.27	
A-29R	09/24/07	13.85	8.03	--	5.82	
A-29R	12/10/07	13.85	7.21	--	6.64	
A-29R	06/02/08	13.85	8.46	--	5.39	
A-29R	09/04/08	13.85	7.82	--	6.03	
A-29R	12/04/08	13.85	7.78	--	6.07	
A-29R	05/23/11	13.85	7.22	--	6.63	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
3	02/11/02	9.78	5.71	--	4.07	Casing Damaged
3	05/20/02	9.78	7.97	--	1.81	Casing Damaged
3	08/27/02	9.78	7.57	--	2.21	Casing Damaged
3	11/04/02	9.78	7.82	--	1.96	Casing Damaged
3	02/18/03	9.78	6.02	--	3.76	Casing Damaged
3	06/09/03	9.78	7.16	--	2.62	Casing Damaged
3	06/11/03	--	--	--	--	Abandoned
3				**Abandoned**		
4	02/11/02	7.97	3.86	--	4.11	
4	05/20/02	7.97	6.07	--	1.90	
4	08/27/02	7.97	5.17	--	2.80	
4	11/04/02	7.97	5.40	--	2.57	
4	02/18/03	7.97	3.78	--	4.19	
4	02/19/03	7.97	3.78	--	4.19	
4	06/09/03	7.97	4.75	--	3.22	
4	09/15/03	11.01	5.37	--	5.64	Casing Broken
4	11/18/03	11.01	4.33	--	6.68	Casing Broken
4	02/24/04	11.01	3.91	--	7.10	Casing Broken
4	05/10/04	11.01	4.75	--	6.26	Casing Broken
4	08/24/04	11.01	4.94	--	6.07	Casing Broken
4	12/13/04	11.01	4.17	--	6.84	Casing Broken
4	03/08/05	11.01	3.80	--	7.21	Casing Broken
4	06/06/05	11.01	4.63	--	6.38	Casing Broken
4	09/19/05	11.01	--	--	--	Not Measured-Casing Broken
4	12/12/05	11.01	4.76	--	6.25	Casing Broken
4	03/13/06	11.01	3.82	--	7.19	Casing Broken
4	06/05/06	11.01	--	--	--	Not Measured-Casing Broken
4	09/11/06	11.01	--	--	--	Not Measured-Casing Broken
4	12/11/06	11.01	--	--	--	Not Measured-Casing Broken
5	02/11/02	8.30	3.73	--	4.57	Casing Damaged
5	05/20/02	8.30	5.89	--	2.41	Casing Damaged
5	08/27/02	8.30	5.40	--	2.90	Casing Damaged
5	11/04/02	8.30	5.74	--	2.56	Casing Damaged
5	02/18/03	8.30	4.20	--	4.10	Casing Damaged
5	06/11/03	--	--	--	--	Abandoned
5				**Abandoned**		
6	02/11/02	9.15	4.50	--	4.65	
6	05/20/02	9.15	6.88	--	2.27	
6	08/27/02	9.15	6.65	--	2.50	
6	11/04/02	9.15	6.99	--	2.16	
6	02/18/03	9.15	5.14	--	4.01	
6	06/09/03	9.15	6.24	--	2.91	
6	09/15/03	12.76	6.95	--	5.81	
6	11/18/03	12.76	5.56	--	7.20	
6	02/24/04	12.76	5.31	--	7.45	
6	05/10/04	12.76	6.24	--	6.52	
6	08/24/04	12.76	6.41	--	6.35	
6	12/13/04	12.76	4.28	--	8.48	
6	03/08/05	12.76	6.28	--	6.48	
6	06/06/05	12.76	5.94	--	6.82	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
6	09/19/05	12.76	6.87	--	5.89	
6	12/12/05	12.76	6.13	--	6.63	
6	03/13/06	12.76	5.13	--	7.63	
6	06/05/06	12.76	5.68	--	7.08	
6	09/11/06	12.76	6.78	--	5.98	
6	12/11/06	12.76	5.52	--	7.24	
7	01/13/97	9.09	3.90	--	5.19	
7	10/06/00	9.09	6.80	--	2.29	
7	12/18/00	9.09	6.02	--	3.07	
7	03/27/01	9.09	6.44	--	2.65	
7	06/14/01	9.09	6.49	--	2.60	
7	09/21/01	9.09	6.91	--	2.18	
7	02/11/02	9.09	5.23	--	3.86	
7	05/20/02	9.09	7.31	--	1.78	
7	08/27/02	9.09	6.85	--	2.24	
7	11/04/02	9.09	7.07	--	2.02	
7	02/18/03	9.09	7.74	--	1.35	
7	06/09/03	9.09	6.45	--	2.64	
7	09/15/03	12.72	7.04	--	5.68	
7	11/18/03	12.72	6.11	--	6.61	
7	02/24/04	12.72	5.96	--	6.76	
7	05/10/04	12.72	6.62	--	6.10	
7	08/24/04	12.72	6.56	--	6.16	
7	12/13/04	12.72	6.00	--	6.72	
7	03/08/05	12.72	5.66	--	7.06	
7	06/06/05	12.72	6.45	--	6.27	
7	09/19/05	12.72	7.04	--	5.68	
7	12/12/05	12.72	6.69	--	6.03	
7	03/13/06	12.72	5.07	--	7.65	
7	06/05/06	12.72	7.40	--	5.32	
7	09/11/06	12.72	6.98	--	5.74	
7	12/11/06	12.72	5.62	--	7.10	
8	02/11/02	9.42	5.20	--	4.22	
8	05/20/02	9.42	7.52	--	1.90	Casing Tilted
8	08/27/02	9.42	7.12	--	2.30	Casing Tilted
8	11/04/02	9.42	7.25	--	2.17	Casing Tilted
8	02/18/03	9.42	5.79	--	3.63	Casing Tilted
8	06/11/03	--	--	--	--	Abandoned
8				**Abandoned**		
9	02/11/02	9.36	4.26	--	5.10	
9	05/20/02	9.36	6.76	--	2.60	
9	08/27/02	9.36	6.38	--	2.98	
9	11/04/02	9.36	7.00	--	2.36	
9	02/18/03	9.36	4.94	--	4.42	
9	06/09/03	9.36	6.11	--	3.25	
9	09/15/03	12.89	6.96	--	5.93	
9	11/18/03	12.89	5.51	--	7.38	
9	02/24/04	12.89	5.19	--	7.70	
9	05/10/04	12.89	6.18	--	6.71	
9	08/24/04	12.89	3.46	--	9.43	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
9	12/13/04	12.89	5.48	--	7.41	
9	03/08/05	12.89	6.36	--	6.53	
9	06/06/05	12.89	5.82	--	7.07	
9	09/19/05	12.89	6.87	--	6.02	
9	12/12/05	12.89	6.15	--	6.74	
9	03/13/06	12.89	5.02	--	7.87	
9	06/05/06	12.89	5.51	--	7.38	
9	09/11/06	12.89	6.80	--	6.09	
9	12/11/06	12.89	4.79	--	8.10	
10	02/11/02	9.57	4.39	--	5.18	
10	05/20/02	9.57	6.98	--	2.59	
10	08/27/02	9.57	6.95	--	2.62	
10	11/04/02	9.57	7.29	--	2.28	
10	02/18/03	9.57	5.05	--	4.52	
10	06/09/03	9.57	6.34	--	3.23	
10	09/15/03	13.20	7.21	--	5.99	
10	11/18/03	13.20	5.62	--	7.58	
10	02/24/04	13.20	5.21	--	7.99	
10	05/10/04	13.20	6.47	--	6.73	
10	08/24/04	13.20	6.61	--	6.59	
10	12/13/04	13.20	5.48	--	7.72	
10	03/08/05	13.20	6.41	--	6.79	
10	06/06/05	13.20	6.09	--	7.11	
10	09/19/05	13.20	7.17	--	6.03	
10	12/12/05	13.20	6.29	--	6.91	
10	03/13/06	13.20	5.15	--	8.05	
10	06/05/06	13.20	5.70	--	7.50	
10	09/11/06	13.20	7.06	--	6.14	
10	12/11/06	13.20	4.88	--	8.32	
11	02/11/02	8.57	3.01	--	5.56	
11	05/20/02	8.57	5.61	--	2.96	
11	08/27/02	8.57	5.76	--	2.81	
11	11/04/02	8.57	6.03	--	2.54	
11	02/18/03	8.57	3.57	--	5.00	
11	06/09/03	8.57	4.98	--	3.59	
11	09/15/03	12.08	6.00	--	6.08	
11	11/18/03	12.08	2.38	--	9.70	
11	02/24/04	12.08	3.70	--	8.38	
11	05/10/04	12.08	5.07	--	7.01	
11	08/24/04	12.08	5.02	--	7.06	
11	12/13/04	12.08	4.12	--	7.96	
11	03/08/05	12.08	4.99	--	7.09	
11	06/06/05	12.08	4.74	--	7.34	
11	09/19/05	12.08	5.93	--	6.15	
11	12/12/05	12.08	4.95	--	7.13	
11	03/13/06	12.08	3.64	--	8.44	
11	06/05/06	12.08	4.32	--	7.76	
11	09/11/06	12.08	5.82	--	6.26	
11	12/11/06	12.08	3.91	--	8.17	
11	06/21/13	12.08	4.57	--	7.51	Baseline monitoring event
11	07/29/13	12.08	4.99	--	7.09	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
11	08/26/13	12.08	4.99	--	7.09	Two-month monitoring event
11	10/02/13	12.08	3.96	--	8.12	
11	01/21/14	12.08	4.60	--	7.48	
11	04/22/14	12.08	3.29	--	8.79	
11	07/15/14	12.08	4.90	--	7.18	
12	02/11/02	9.06	3.57	0.04	5.52*	
12	05/20/02	9.06	6.14	0.04	2.95*	Casing Damaged
12	08/27/02	9.06	3.41	0.01	5.66*	Casing Damaged
12	11/04/02	9.06	3.80	0.01	5.27*	Casing Damaged
12	02/18/03	9.06	0.80	Sheen	8.26	Casing Damaged
12	06/09/03	9.06	2.99	Sheen	6.07	Casing Damaged
12	09/15/03	9.79	--	--	--	Not Measured-Not Located
12	11/18/03	9.79	--	--	--	Not Measured-surface water covering wellNot accessible - surface water covering well
12	02/24/04	9.79	1.20	0.03	8.61*	
12	05/10/04	9.79	2.80	--	6.99	
12	08/24/04	9.79	2.51	Sheen	7.28	
12	12/13/04	9.79	1.12	--	8.67	
12	03/08/05	9.79	2.87	--	6.92	
12	06/06/05	9.79	5.16	--	4.63	
12	09/19/05	9.79	3.49	0.01	6.31*	
12	12/12/05	9.79	2.40	--	7.39	
12	03/13/06	9.79	1.00	--	8.79	
12	06/05/06	9.79	1.27	--	8.52	
12	09/11/06	9.79	3.63	--	6.16	
12	12/11/06	9.79	1.31	--	8.48	
12	03/26/07	9.79	1.40	--	8.39	
12	06/18/07	9.79	2.74	--	7.05	
12	09/24/07	9.79	3.43	--	6.36	
12	12/10/07	9.79	1.88	Sheen	7.91	
12	03/03/08	9.79	2.04	Sheen	7.75	
12	06/02/08	9.79	2.98	--	6.81	
12	09/04/08	9.79	3.74	--	6.05	
12	12/04/08	9.79	2.79	Sheen	7.00	
12	03/04/09	9.79	2.25	Sheen	7.54	
12	06/01/09	9.79	2.31	Sheen	7.48	
12	09/21/09	9.79	3.30	Sheen	6.49	
12	11/16/09	9.79	1.62	Sheen	8.17	
12	03/08/10	9.79	1.34	Sheen	8.45	
12	06/07/10	9.79	1.62	Sheen	8.17	
12	09/09/10	9.79	3.28	Sheen	6.51	
12	11/15/10	9.79	1.92	--	7.87	
12	03/01/11	9.79	1.35	Sheen	8.44	
12	05/23/11	9.79	2.15	Sheen	7.64	
12	08/29/11	9.79	3.03	0.03	6.78*	
12	12/01/11	9.79	2.13	--	7.66	
12	03/01/12	9.79	1.65	Sheen	8.14	
12	05/30/12	9.79	1.63	Sheen	8.16	
12	08/25/12	9.79	2.89	--	6.90	
12	11/07/12	9.79	1.46	--	8.33	
12	02/27/13	9.79	1.43	--	8.36	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
12	04/08/13	9.79	0.24	--	9.55	
12	06/21/13	9.79	2.84	--	6.95	Baseline monitoring event
12	07/29/13	9.79	3.95	--	5.84	
12	08/26/13	9.79	1.91	--	7.88	Two-month monitoring event
12	10/02/13	9.79	1.14	--	8.65	
12	01/21/14	9.79	2.11	--	7.68	
12	04/22/14	9.79	0.88	Sheen	8.91	
12	07/15/14	9.79	2.61	--	7.18	
13	02/11/02	9.77	5.06	--	4.71	
13	05/20/02	9.77	7.30	--	2.47	
13	08/27/02	9.77	7.15	--	2.62	
13	11/04/02	--	--	--	--	Not Measured-Recently destroyed
13	06/11/03	--	--	--	--	Abandoned
13				**Abandoned**		
14	06/11/03	--	--	--	--	Abandoned
14				**Abandoned**		
15	02/11/02	8.69	3.45	--	5.24	Casing Damaged
15	05/20/02	8.69	6.12	--	2.57	Casing Broken
15	08/27/02	8.69	5.94	--	2.75	Casing Broken
15	11/04/02	8.69	6.25	--	2.44	Casing Broken
15	02/18/03	8.69	3.71	--	4.98	Casing Broken
15	06/11/03	--	--	--	--	Abandoned
15				**Abandoned**		
16	02/11/02	9.73	4.50	--	5.23	
16	05/20/02	9.73	7.12	--	2.61	
16	08/27/02	9.73	7.14	--	2.59	
16	11/04/02	9.73	7.46	--	2.27	
16	02/18/03	9.73	5.12	--	4.61	
16	06/09/03	9.73	6.51	--	3.22	
16	09/15/03	13.29	7.37	--	5.92	
16	11/18/03	13.29	5.60	--	7.69	
16	02/24/04	13.29	5.46	--	7.83	
16	05/10/04	13.29	6.42	--	6.87	
16	08/24/04	13.29	6.81	--	6.48	
16	12/13/04	13.29	5.94	--	7.35	
16	03/08/05	13.29	6.51	--	6.78	
16	06/06/05	13.29	6.24	--	7.05	
16	09/19/05	13.29	7.30	--	5.99	
16	12/12/05	13.29	6.46	--	6.83	
16	03/13/06	13.29	5.20	--	8.09	
16	06/05/06	13.29	5.76	--	7.53	
16	09/11/06	13.29	7.21	--	6.08	
16	12/11/06	13.29	4.88	--	8.41	
17	02/11/02	11.48	6.39	--	5.09	
17	05/20/02	11.48	8.61	--	2.87	
17	08/27/02	11.48	8.68	--	2.80	
17	11/04/02	11.48	9.06	--	2.42	
17	02/18/03	11.48	6.92	--	4.56	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
17	06/09/03	11.48	7.95	--	3.53	
17	09/15/03	15.06	8.89	--	6.17	
17	11/18/03	15.06	8.51	--	6.55	
17	02/24/04	15.06	6.45	--	8.61	
17	05/10/04	15.06	7.90	--	7.16	
17	08/24/04	15.06	8.45	--	6.61	
17	12/13/04	15.06	7.83	--	7.23	
17	03/08/05	15.06	7.81	--	7.25	
17	06/06/05	15.06	7.73	--	7.33	
17	09/19/05	15.06	8.75	--	6.31	
17	12/12/05	15.06	8.03	--	7.03	
17	03/13/06	15.06	6.57	--	8.49	
17	06/05/06	15.06	6.22	--	8.84	
17	09/11/06	15.06	8.68	--	6.38	
17	12/11/06	15.06	6.53	--	8.53	
19	02/11/02	9.13	3.75	--	5.38	
19	05/20/02	9.13	6.10	--	3.03	
19	08/27/02	9.13	6.28	--	2.85	
19	11/04/02	9.13	6.66	--	2.47	
19	02/18/03	9.13	4.33	--	4.80	
19	06/09/03	9.13	5.41	--	3.72	
19	09/15/03	12.74	6.51	--	6.23	
19	11/18/03	12.74	3.67	--	9.07	
19	02/24/04	12.74	4.25	--	8.49	
19	05/10/04	12.74	5.48	--	7.26	
19	08/24/04	12.74	5.87	--	6.87	
19	12/13/04	12.74	5.15	--	7.59	
19	03/08/05	12.74	5.45	--	7.29	
19	06/06/05	12.74	5.24	--	7.50	
19	09/19/05	12.74	6.36	--	6.38	
19	12/12/05	12.74	5.60	--	7.14	
19	03/13/06	12.74	4.02	--	8.72	
19	06/05/06	12.74	4.89	--	7.85	
19	09/11/06	12.74	6.31	--	6.43	
19	12/11/06	12.74	3.78	--	8.96	
20	02/11/02	8.88	3.15	--	5.73	
20	05/20/02	8.88	5.67	--	3.21	
20	08/27/02	8.88	5.91	--	2.97	
20	11/04/02	8.88	6.32	--	2.56	
20	02/18/03	8.88	3.77	--	5.11	
20	06/09/03	8.88	5.04	--	3.84	
20	09/15/03	12.49	6.16	--	6.33	
20	11/18/03	12.49	5.10	--	7.39	
20	02/24/04	12.49	3.81	--	8.68	
20	05/10/04	12.49	5.12	--	7.37	
20	08/24/04	12.49	5.45	--	7.04	
20	12/13/04	12.49	4.64	--	7.85	
20	03/08/05	12.49	5.11	--	7.38	
20	06/06/05	12.49	4.90	--	7.59	
20	09/19/05	12.49	6.08	--	6.41	
20	12/12/05	12.49	5.32	--	7.17	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
20	03/13/06	12.49	3.64	--	8.85	
20	06/05/06	12.49	4.44	--	8.05	
20	09/11/06	12.49	5.98	--	6.51	
20	12/11/06	12.49	3.47	--	9.02	
21	02/11/02	9.42	3.58	--	5.84	
21	05/20/02	9.42	6.18	--	3.24	
21	08/27/02	9.42	6.43	--	2.99	
21	11/04/02	9.42	6.81	--	2.61	
21	02/18/03	9.42	4.18	--	5.24	
21	06/09/03	9.42	5.56	--	3.86	
21	09/15/03	13.04	6.68	--	6.36	
21	11/18/03	13.04	5.03	--	8.01	
21	02/24/04	13.04	4.30	--	8.74	
21	05/10/04	13.04	6.56	--	6.48	
21	08/24/04	13.04	6.04	--	7.00	
21	12/13/04	13.04	5.02	--	8.02	
21	03/08/05	13.04	5.62	--	7.42	
21	06/06/05	13.04	5.43	--	7.61	
21	09/19/05	13.04	6.63	--	6.41	
21	12/12/05	13.04	5.70	--	7.34	
21	03/13/06	13.04	4.19	--	8.85	
21	06/05/06	13.04	4.96	--	8.08	
21	09/11/06	13.04	6.50	--	6.54	
21	12/11/06	13.04	3.99	--	9.05	
22	02/11/02	9.57	3.72	--	5.85	
22	05/20/02	9.57	6.21	--	3.36	
22	08/27/02	9.57	6.55	--	3.02	
22	11/04/02	9.57	6.89	--	2.68	
22	02/18/03	9.57	4.27	--	5.30	
22	06/09/03	9.57	5.60	--	3.97	
22	09/15/03	13.19	6.75	--	6.44	
22	11/18/03	13.19	5.07	--	8.12	
22	02/24/04	13.19	4.39	--	8.80	
22	05/10/04	13.19	5.75	--	7.44	
22	08/24/04	13.19	6.23	--	6.96	
22	12/13/04	13.19	5.04	--	8.15	
22	03/08/05	13.19	5.77	--	7.42	
22	06/06/05	13.19	5.55	--	7.64	
22	09/19/05	13.19	6.75	--	6.44	
22	12/12/05	13.19	5.80	--	7.39	
22	03/13/06	13.19	4.35	--	8.84	
22	06/05/06	13.19	5.04	--	8.15	
22	09/11/06	13.19	6.66	--	6.53	
22	12/11/06	13.19	4.11	--	9.08	
23	02/11/02	8.94	3.51	--	5.43	
23	05/20/02	8.94	5.93	--	3.01	
23	08/27/02	8.94	5.93	--	3.01	
23	11/04/02	8.94	6.29	--	2.65	
23	02/18/03	8.94	4.04	--	4.90	
23	06/09/03	8.94	5.26	--	3.68	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
23	09/15/03	12.55	6.19	--	6.36	
23	11/18/03	12.55	6.11	--	6.44	
23	02/24/04	12.55	4.20	--	8.35	
23	05/10/04	12.55	5.35	--	7.20	
23	08/24/04	12.55	5.78	--	6.77	
23	12/13/04	12.55	4.73	--	7.82	
23	03/08/05	12.55	5.37	--	7.18	
23	06/06/05	12.55	5.16	--	7.39	
23	09/19/05	12.55	6.46	--	6.09	
23	12/12/05	12.55	5.40	--	7.15	
23	03/13/06	12.55	4.03	--	8.52	
23	06/05/06	12.55	4.79	--	7.76	
23	09/11/06	12.55	6.13	--	6.42	
23	12/11/06	12.55	4.01	--	8.54	
24	06/11/03	--	--	--	--	Abandoned
24				**Abandoned**		
25	02/11/02	9.48	3.76	--	5.72	
25	05/20/02	9.48	6.19	--	3.29	
25	08/27/02	9.48	6.33	--	3.15	
25	11/04/02	9.48	6.74	--	2.74	Casing Tilted
25	02/18/03	9.48	4.13	--	5.35	Casing Tilted
25	06/11/03	--	--	--	--	Abandoned
25				**Abandoned**		
26	02/11/02	9.43	3.70	--	5.73	
26	05/20/02	9.43	--	--	--	Not Measured-Dry
26	08/27/02	9.43	6.02	--	3.41	
26	11/04/02	9.43	5.97	--	3.46	
26	02/18/03	9.43	5.11	--	4.32	
26	06/09/03	9.43	6.02	--	3.41	
26	09/15/03	13.87	6.01	--	7.86	
26	11/18/03	13.87	4.32	--	9.55	
26	02/24/04	13.87	5.14	--	8.73	
26	05/10/04	13.87	6.05	--	7.82	
26	08/24/04	13.87	5.19	--	8.68	
26	12/13/04	13.87	5.99	--	7.88	
26	03/08/05	13.87	6.02	--	7.85	
26	06/06/05	13.87	6.02	--	7.85	
26	09/19/05	13.87	4.51	--	9.36	
26	12/12/05	13.87	6.05	--	7.82	
26	03/13/06	13.87	5.00	--	8.87	
26	06/05/06	13.87	5.78	--	8.09	
26	09/11/06	13.87	7.01	--	6.86	
26	12/11/06	13.87	4.81	--	9.06	
27	02/11/02	9.20	3.57	--	5.63	
27	05/20/02	9.20	6.00	--	3.20	
27	08/27/02	9.20	6.21	--	2.99	
27	11/04/02	9.20	6.63	--	2.57	
27	02/18/03	9.20	4.03	--	5.17	
27	06/09/03	9.01	5.22	--	3.79	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
27	09/15/03	12.65	6.36	--	6.29	
27	11/18/03	12.65	5.84	--	6.81	
27	02/24/04	12.65	4.04	--	8.61	
27	05/10/04	12.65	5.31	--	7.34	
27	08/24/04	12.65	5.71	--	6.94	
27	12/13/04	12.65	4.91	--	7.74	
27	03/08/05	12.65	5.28	--	7.37	
27	06/06/05	12.65	5.13	--	7.52	
27	09/19/05	12.65	6.22	--	6.43	
27	12/12/05	12.65	5.40	--	7.25	
27	03/13/06	12.65	3.82	--	8.83	
27	06/05/06	12.65	4.66	--	7.99	
27	09/11/06	12.65	6.16	--	6.49	
27	12/11/06	12.65	3.60	--	9.05	
MW-1	02/11/02	9.37	4.60	--	4.77	
MW-1	05/20/02	9.37	6.75	--	2.62	
MW-1	08/27/02	9.37	6.51	--	2.86	
MW-1	11/04/02	9.37	6.90	--	2.47	
MW-1	02/18/03	9.37	5.10	--	4.27	
MW-1	06/09/03	9.37	5.94	--	3.43	
MW-1	09/15/03	13.21	6.72	--	6.49	
MW-1	11/18/03	13.21	5.91	--	7.30	
MW-1	02/24/04	13.21	5.05	--	8.16	
MW-1	05/10/04	13.21	6.06	--	7.15	
MW-1	08/24/04	13.21	6.45	--	6.76	
MW-1	12/13/04	13.21	5.63	--	7.58	
MW-1	03/08/05	13.21	6.09	--	7.12	
MW-1	06/06/05	13.21	6.93	--	6.28	
MW-1	09/19/05	13.21	6.74	--	6.47	
MW-1	12/12/05	13.21	6.16	--	7.05	
MW-1	03/13/06	13.21	4.96	--	8.25	
MW-1	06/05/06	13.21	5.72	--	7.49	
MW-1	09/11/06	13.21	6.72	--	6.49	
MW-1	12/11/06	13.21	5.20	--	8.01	
MW-1	03/26/07	13.21	5.24	--	7.97	
MW-1	06/18/07	13.21	5.98	--	7.23	
MW-1	09/25/07	13.21	6.72	--	6.49	
MW-1	12/10/07	13.21	5.34	--	7.87	
MW-1	03/03/08	13.21	5.70	--	7.51	
MW-1	06/02/08	13.21	6.30	--	6.91	
MW-1	09/04/08	13.21	6.48	--	6.73	
MW-1	12/04/08	13.21	6.33	--	6.88	
MW-1	03/04/09	13.21	--	--	--	Not Measured-Inaccessible
MW-1	06/01/09	13.21	6.00	--	7.21	
MW-1	09/21/09	13.21	6.75	--	6.46	
MW-1	11/16/09	13.21	5.62	--	7.59	
MW-1	03/08/10	13.21	5.05	--	8.16	
MW-1	06/07/10	13.21	5.48	--	7.73	
MW-1	09/09/10	13.21	6.55	--	6.66	
MW-1	11/15/10	13.21	5.71	--	7.50	
MW-1	03/01/11	13.21	4.97	--	8.24	
MW-1	05/23/11	13.21	5.04	--	8.17	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-1	08/29/11	13.21	6.35	--	6.86	
MW-1	12/01/11	13.21	5.80	--	7.41	
MW-1	03/01/12	13.21	5.59	--	7.62	
MW-1	05/30/12	13.21	5.55	--	7.66	
MW-1	08/25/12	13.21	6.25	--	6.96	
MW-1	11/07/12	13.21	5.58	--	7.63	
MW-1	02/27/13	13.21	5.24	--	7.97	
MW-1	04/08/13	13.21	5.12	--	8.09	
MW-1	07/29/13	13.21	6.19	--	7.02	
MW-1	10/02/13	13.21	5.83	--	7.38	
MW-1	01/21/14	13.21	5.96	--	7.25	
MW-1	04/22/14	13.21	5.05	--	8.16	
MW-1	07/15/14	13.21	5.90	--	7.31	
MW-2	02/11/02	11.33	6.13	--	5.20	
MW-2	05/20/02	11.33	8.40	--	2.93	
MW-2	08/27/02	11.33	8.50	--	2.83	
MW-2	11/04/02	11.33	8.85	--	2.48	
MW-2	02/18/03	11.33	6.10	--	5.23	
MW-2	06/09/03	11.33	7.68	--	3.65	
MW-2	09/15/03	15.22	8.71	--	6.51	
MW-2	11/18/03	15.22	7.60	--	7.62	
MW-2	02/24/04	15.22	6.56	--	8.66	
MW-2	05/10/04	15.22	7.78	--	7.44	
MW-2	08/24/04	15.22	8.33	--	6.89	
MW-2	12/13/04	15.22	7.69	--	7.53	
MW-2	03/08/05	15.22	7.72	--	7.50	
MW-2	06/06/05	15.22	7.61	--	7.61	
MW-2	09/19/05	15.22	8.58	--	6.64	
MW-2	12/12/05	15.22	7.86	--	7.36	
MW-2	03/13/06	15.22	6.38	--	8.84	
MW-2	06/05/06	15.22	7.39	--	7.83	
MW-2	09/11/06	15.22	8.50	--	6.72	
MW-2	12/11/06	15.22	6.37	--	8.85	
MW-2	03/26/07	15.22	6.71	--	8.51	
MW-2	06/18/07	15.22	7.68	--	7.54	
MW-2	09/24/07	15.22	8.84	--	6.38	
MW-2	12/10/07	15.22	6.85	--	8.37	
MW-2	03/03/08	15.22	7.14	--	8.08	
MW-2	06/02/08	15.22	7.91	--	7.31	
MW-2	09/04/08	15.22	8.33	--	6.89	
MW-2	12/04/08	15.22	8.01	--	7.21	
MW-2	03/04/09	15.22	7.43	--	7.79	
MW-2	06/01/09	15.22	7.54	--	7.68	
MW-2	09/21/09	15.22	8.52	--	6.70	
MW-2	11/16/09	15.22	7.28	--	7.94	
MW-2	03/08/10	15.22	6.42	--	8.80	
MW-2	06/07/10	15.22	7.00	--	8.22	
MW-2	09/09/10	15.22	8.26	--	6.96	
MW-2	11/15/10	15.22	7.21	--	8.01	
MW-2	03/01/11	15.22	6.26	--	8.96	
MW-2	05/23/11	15.22	6.39	--	8.83	
MW-2	08/29/11	15.22	8.01	--	7.21	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-2	12/01/11	15.22	7.56	--	7.66	
MW-2	03/01/12	15.22	7.03	--	8.19	
MW-2	05/30/12	15.22	6.97	--	8.25	
MW-2	08/25/12	15.22	7.88	--	7.34	
MW-2	11/07/12	15.22	7.34	--	7.88	
MW-2	02/27/13	15.22	6.59	--	8.63	
MW-2	04/08/13	15.22	6.36	--	8.86	
MW-2	07/29/13	15.22	7.82	--	7.40	
MW-2	10/02/13	15.22	7.44	--	7.78	
MW-2	01/21/14	15.22	7.55	--	7.67	
MW-2	04/22/14	15.22	6.21	--	9.01	
MW-2	07/15/14	15.22	7.47	--	7.75	
MW-3	02/11/02	7.49	1.82	--	5.67	
MW-3	05/20/02	7.49	4.27	--	3.22	
MW-3	08/27/02	7.49	4.50	--	2.99	
MW-3	11/04/02	7.49	4.92	--	2.57	
MW-3	02/18/03	7.49	2.38	--	5.11	
MW-3	06/09/03	7.49	3.67	--	3.82	
MW-3	09/15/03	11.39	4.81	--	6.58	
MW-3	11/18/03	11.39	2.97	--	8.42	
MW-3	02/24/04	11.39	2.45	--	8.94	
MW-3	05/10/04	11.39	3.64	--	7.75	
MW-3	08/24/04	11.39	4.14	--	7.25	
MW-3	12/13/04	11.39	3.22	--	8.17	
MW-3	03/08/05	11.39	3.70	--	7.69	
MW-3	06/06/05	11.39	3.51	--	7.88	
MW-3	09/19/05	11.39	4.65	--	6.74	
MW-3	12/12/05	11.39	3.81	--	7.58	
MW-3	03/13/06	11.39	2.43	--	8.96	
MW-3	06/05/06	11.39	3.05	--	8.34	
MW-3	09/11/06	11.39	4.58	--	6.81	
MW-3	12/11/06	11.39	2.00	--	9.39	
MW-3	03/26/07	11.39	2.46	--	8.93	
MW-3	06/18/07	11.39	3.81	--	7.58	
MW-3	09/24/07	11.39	4.58	--	6.81	
MW-3	12/10/07	11.39	2.53	--	8.86	
MW-3	03/03/08	11.39	3.10	--	8.29	
MW-3	06/02/08	11.39	3.88	--	7.51	
MW-3	09/04/08	11.39	4.27	--	7.12	
MW-3	12/04/08	11.39	3.99	--	7.40	
MW-3	03/04/09	11.39	3.28	--	8.11	
MW-3	06/01/09	11.39	3.48	--	7.91	
MW-3	09/21/09	11.39	4.51	--	6.88	
MW-3	11/16/09	11.39	2.97	--	8.42	
MW-3	03/08/10	11.39	2.32	--	9.07	
MW-3	06/07/10	11.39	2.86	--	8.53	
MW-3	09/09/10	11.39	4.23	--	7.16	
MW-3	11/15/10	11.39	2.99	--	8.40	
MW-3	03/01/11	11.39	1.86	--	9.53	
MW-3	05/23/11	11.39	2.03	--	9.36	
MW-3	08/29/11	11.39	4.02	--	7.37	
MW-3	12/01/11	11.39	3.27	--	8.12	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-3	03/01/12	11.39	2.99	--	8.40	
MW-3	05/30/12	11.39	2.93	--	8.46	
MW-3	08/25/12	11.39	3.90	--	7.49	
MW-3	11/07/12	11.39	3.10	--	8.29	
MW-3	02/27/13	11.39	2.23	--	9.16	
MW-3	04/08/13	11.39	2.04	--	9.35	
MW-3	07/29/13	11.39	3.78	--	7.61	
MW-3	10/02/13	11.39	3.06	--	8.33	
MW-3	01/21/14	11.39	3.43	--	7.96	
MW-3	04/22/14	11.39	2.06	--	9.33	
MW-3	07/15/14	11.39	3.51	--	7.88	
MW-4	02/11/02	10.44	5.24	--	5.20	
MW-4	05/20/02	10.44	7.60	--	2.84	
MW-4	08/27/02	10.44	7.40	--	3.04	
MW-4	11/04/02	10.44	7.90	0.15	2.66*	
MW-4	02/18/03	10.44	5.79	--	4.65	
MW-4	06/09/03	10.44	6.81	--	3.63	
MW-4	09/15/03	14.69	7.70	0.01	7.00*	
MW-4	11/18/03	14.69	6.71	Sheen	7.98	
MW-4	02/24/04	14.69	5.82	Sheen	8.87	
MW-4	05/10/04	14.69	6.93	Sheen	7.76	
MW-4	08/24/04	14.69	7.24	--	7.45	
MW-4	12/13/04	14.69	6.45	Sheen	8.24	
MW-4	03/08/05	14.69	6.94	--	7.75	
MW-4	06/06/05	14.69	6.71	--	7.98	
MW-4	09/19/05	14.69	7.67	--	7.02	
MW-4	12/12/05	14.69	6.97	--	7.72	
MW-4	03/13/06	14.69	5.77	--	8.92	
MW-4	06/05/06	14.69	6.42	--	8.27	
MW-4	09/11/06	14.69	7.61	--	7.08	
MW-4	12/11/06	14.69	5.81	--	8.88	
MW-4	03/26/07	14.69	5.96	--	8.73	
MW-4	06/18/07	14.69	6.99	--	7.70	
MW-4	09/25/07	14.69	7.46	--	7.23	
MW-4	12/10/07	14.69	5.93	--	8.76	
MW-4	03/03/08	14.69	6.44	--	8.25	
MW-4	06/02/08	14.69	7.37	--	7.32	
MW-4	09/04/08	14.69	7.20	--	7.49	
MW-4	12/04/08	14.69	7.77	--	6.92	
MW-4	03/04/09	14.69	6.68	--	8.01	
MW-4	06/01/09	14.69	6.78	--	7.91	
MW-4	09/21/09	14.69	7.56	--	7.13	
MW-4	11/16/09	14.69	6.34	--	8.35	
MW-4	03/08/10	14.69	5.86	--	8.83	
MW-4	06/07/10	14.69	6.27	--	8.42	
MW-4	09/09/10	14.69	7.40	--	7.29	
MW-4	11/15/10	14.69	6.39	--	8.30	
MW-4	03/01/11	14.69	5.70	--	8.99	
MW-4	05/23/11	14.69	5.74	--	8.95	
MW-4	08/29/11	14.69	7.25	--	7.44	
MW-4	12/01/11	14.69	6.52	--	8.17	
MW-4	03/01/12	14.69	6.38	--	8.31	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-4	05/30/12	14.69	6.33	--	8.36	
MW-4	08/25/12	14.69	7.05	--	7.64	
MW-4	11/07/12	14.69	6.31	--	8.38	
MW-4	02/27/13	14.69	6.02	--	8.67	
MW-4	04/08/13	14.69	5.74	--	8.95	
MW-4	07/29/13	14.69	7.02	--	7.67	
MW-4	10/02/13	14.69	6.53	--	8.16	
MW-4	01/21/14	14.69	6.75	--	7.94	
MW-4	04/22/14	14.69	5.84	--	8.85	
MW-4	07/15/14	14.69	6.85	--	7.84	
MW-5	02/11/02	7.10	1.50	--	5.60	
MW-5	05/20/02	7.10	4.06	--	3.04	
MW-5	08/27/02	7.10	4.23	--	2.87	
MW-5	11/04/02	7.10	4.63	--	2.47	
MW-5	02/18/03	7.10	1.98	--	5.12	
MW-5	06/09/03	7.10	3.47	--	3.63	
MW-5	09/15/03	11.13	4.49	--	6.64	
MW-5	11/18/03	11.13	2.81	--	8.32	
MW-5	02/24/04	11.13	2.11	--	9.02	
MW-5	05/10/04	11.13	3.50	--	7.63	
MW-5	08/24/04	11.13	3.71	--	7.42	
MW-5	12/13/04	11.13	2.75	--	8.38	
MW-5	03/08/05	11.13	3.53	--	7.60	
MW-5	06/06/05	11.13	3.22	--	7.91	
MW-5	09/19/05	11.13	4.33	--	6.80	
MW-5	12/12/05	11.13	3.43	--	7.70	
MW-5	03/13/06	11.13	2.10	--	9.03	
MW-5	06/05/06	11.13	2.59	--	8.54	
MW-5	09/11/06	11.13	4.33	--	6.80	
MW-5	12/11/06	11.13	1.70	--	9.43	
MW-5	03/26/07	11.13	2.22	--	8.91	
MW-5	06/18/07	11.13	--	--	--	Not Measured-No Access due to construction
MW-5	09/24/07	11.13	4.28	--	6.85	
MW-5	12/10/07	11.13	2.06	--	9.07	
MW-5	03/03/08	11.13	2.81	--	8.32	
MW-5	06/02/08	11.13	3.36	--	7.77	
MW-5	09/04/08	11.13	3.91	--	7.22	
MW-5	12/04/08	11.13	3.64	--	7.49	
MW-5	03/04/09	11.13	2.98	--	8.15	
MW-5	06/01/09	11.13	3.21	--	7.92	
MW-5	09/21/09	11.13	4.23	--	6.90	
MW-5	11/16/09	11.13	2.50	--	8.63	
MW-5	03/08/10	11.13	2.11	--	9.02	
MW-5	06/07/10	11.13	2.55	--	8.58	
MW-5	09/09/10	11.13	3.93	--	7.20	
MW-5	11/15/10	11.13	2.55	--	8.58	
MW-5	03/01/11	11.13	1.63	--	9.50	
MW-5	05/23/11	11.13	2.00	--	9.13	
MW-5	08/29/11	11.13	3.82	--	7.31	
MW-5	12/01/11	11.13	2.80	--	8.33	
MW-5	03/01/12	11.13	2.66	--	8.47	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-5	05/30/12	11.13	2.73	--	8.40	
MW-5	08/25/12	11.13	3.54	--	7.59	
MW-5	11/07/12	11.13	2.56	--	8.57	
MW-5	02/27/13	11.13	2.20	--	8.93	
MW-5	04/08/13	11.13	1.69	--	9.44	
MW-5	07/29/13	11.13	3.41	--	7.72	
MW-5	10/02/13	11.13	2.51	--	8.62	
MW-5	01/21/14	11.13	3.11	--	8.02	
MW-5	04/22/14	11.13	1.79	--	9.34	
MW-5	07/15/14	11.13	3.29	--	7.84	
MW-6	02/11/02	11.15	6.35	--	4.80	
MW-6	05/20/02	11.15	8.48	--	2.67	
MW-6	08/27/02	11.15	8.45	--	2.70	
MW-6	11/04/02	11.15	8.80	--	2.35	
MW-6	02/18/03	11.15	6.85	--	4.30	
MW-6	06/09/03	11.15	7.74	--	3.41	
MW-6	09/15/03	15.17	8.65	--	6.52	
MW-6	11/18/03	15.17	7.60	--	7.57	
MW-6	02/24/04	15.17	6.61	--	8.56	
MW-6	05/10/04	15.17	7.76	--	7.41	
MW-6	08/24/04	15.17	8.28	--	6.89	
MW-6	12/13/04	15.17	7.67	--	7.50	
MW-6	03/08/05	15.17	7.70	--	7.47	
MW-6	06/06/05	15.17	7.55	--	7.62	
MW-6	09/19/05	15.17	8.48	--	6.69	
MW-6	12/12/05	15.17	7.89	--	7.28	
MW-6	03/13/06	15.17	6.46	--	8.71	
MW-6	06/05/06	15.17	7.25	--	7.92	
MW-6	09/11/06	15.17	8.43	--	6.74	
MW-6	12/11/06	15.17	6.50	--	8.67	
MW-6	03/26/07	15.17	6.61	--	8.56	
MW-6	06/18/07	15.17	7.76	--	7.41	
MW-6	09/24/07	15.17	8.43	--	6.74	
MW-6	12/10/07	15.17	6.93	--	8.24	
MW-6	03/03/08	15.17	7.09	--	8.08	
MW-6	06/02/08	15.17	7.88	--	7.29	
MW-6	09/04/08	15.17	8.19	--	6.98	
MW-6	12/04/08	15.17	7.95	--	7.22	
MW-6	03/04/09	15.17	7.41	--	7.76	
MW-6	06/01/09	15.17	7.54	--	7.63	
MW-6	09/21/09	15.17	8.42	--	6.75	
MW-6	11/16/09	15.17	7.30	--	7.87	
MW-6	03/08/10	15.17	6.45	--	8.72	
MW-6	06/07/10	15.17	7.09	--	8.08	
MW-6	09/09/10	15.17	8.10	--	7.07	
MW-6	11/15/10	15.17	7.21	--	7.96	
MW-6	03/01/11	15.17	6.24	--	8.93	
MW-6	05/23/11	15.17	6.42	--	8.75	
MW-6	08/29/11	15.17	7.92	--	7.25	
MW-6	12/01/11	15.17	7.45	--	7.72	
MW-6	03/01/12	15.17	6.97	--	8.20	
MW-6	05/30/12	15.17	6.91	--	8.26	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-6	08/25/12	15.17	7.09	--	8.08	
MW-6	11/07/12	15.17	7.12	--	8.05	
MW-6	02/27/13	15.17	6.59	--	8.58	
MW-6	04/08/13	15.17	6.22	--	8.95	
MW-6	07/29/13	15.17	7.34	--	7.83	
MW-6	10/02/13	15.17	6.98	--	8.19	
MW-6	01/21/14	15.17	7.21	--	7.96	
MW-6	04/22/14	15.17	6.71	--	8.46	
MW-6	07/15/14	15.17	7.39	--	7.78	
MW-7	02/11/02	6.78	1.49	--	5.29	
MW-7	05/20/02	6.78	3.91	--	2.87	
MW-7	08/27/02	6.78	4.03	--	2.75	
MW-7	11/04/02	6.78	4.44	--	2.34	
MW-7	02/18/03	6.78	1.82	Sheen	4.96	
MW-7	06/09/03	6.78	3.29	--	3.49	
MW-7	09/15/03	10.62	4.30	--	6.32	
MW-7	11/18/03	10.62	2.83	--	7.79	
MW-7	02/24/04	10.62	2.16	--	8.46	
MW-7	05/10/04	10.62	3.32	--	7.30	
MW-7	08/24/04	10.62	3.31	--	7.31	
MW-7	12/13/04	10.62	2.27	--	8.35	
MW-7	03/08/05	10.62	3.23	--	7.39	
MW-7	06/06/05	10.62	3.03	--	7.59	
MW-7	09/19/05	10.62	4.16	Sheen	6.46	
MW-7	12/12/05	10.62	3.17	--	7.45	
MW-7	03/13/06	10.62	1.88	--	8.74	
MW-7	06/05/06	10.62	2.34	--	8.28	
MW-7	09/11/06	10.62	4.10	--	6.52	
MW-7	12/11/06	10.62	1.72	--	8.90	
MW-7	03/26/07	10.62	2.00	--	8.62	
MW-7	06/18/07	10.62	3.34	--	7.28	
MW-7	09/24/07	10.62	4.00	--	6.62	
MW-7	12/10/07	10.62	1.12	Sheen	9.50	
MW-7	03/03/08	10.62	2.49	Sheen	8.13	
MW-7	06/02/08	10.62	3.41	Sheen	7.21	
MW-7	09/04/08	10.62	3.60	--	7.02	
MW-7	12/04/08	10.62	3.36	--	7.26	
MW-7	03/04/09	10.62	2.90	--	7.72	
MW-7	06/01/09	10.62	3.08	Sheen	7.54	
MW-7	09/21/09	10.62	1.91	--	8.71	
MW-7	11/16/09	10.62	2.54	Sheen	8.08	
MW-7	03/08/10	10.62	2.31	--	8.31	
MW-7	06/07/10	10.62	2.67	--	7.95	
MW-7	09/09/10	10.62	3.79	--	6.83	
MW-7	11/15/10	10.62	2.58	--	8.04	
MW-7	03/01/11	10.62	2.51	--	8.11	
MW-7	05/23/11	10.62	2.24	--	8.38	
MW-7	08/29/11	10.62	3.87	--	6.75	
MW-7	12/01/11	10.62	2.67	--	7.95	
MW-7	03/01/12	10.62	2.80	--	7.82	
MW-7	05/30/12	10.62	2.82	--	7.80	
MW-7	08/25/12	10.62	3.35	--	7.27	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-7	11/07/12	10.62	2.23	--	8.39	
MW-7	02/27/13	10.62	2.33	--	8.29	
MW-7	04/08/13	10.62	1.88	--	8.74	
MW-7	06/21/13	10.62	3.10	--	7.52	Baseline monitoring event
MW-7	07/29/13	10.62	3.16	--	7.46	
MW-7	08/26/13	10.62	2.82	--	7.80	Two-month monitoring event
MW-7	10/02/13	10.62	2.08	--	8.54	
MW-7	01/21/14	10.62	2.78	--	7.84	
MW-7	04/22/14	10.62	1.45	--	9.17	
MW-7	07/15/14	10.62	3.02	--	7.60	
MW-8	02/11/02	6.42	1.38	--	5.04	
MW-8	05/20/02	6.42	3.87	0.01	2.56*	
MW-8	08/27/02	6.42	5.83	--	0.59	
MW-8	11/04/02	6.42	4.23	--	2.19	
MW-8	02/18/03	6.42	1.37	--	5.05	
MW-8	06/09/03	6.42	3.33	--	3.09	
MW-8	09/15/03	10.63	4.10	--	6.53	
MW-8	11/18/03	10.63	2.25	--	8.38	
MW-8	02/24/04	10.63	2.15	--	8.48	
MW-8	05/10/04	10.63	3.37	--	7.26	
MW-8	08/24/04	10.63	3.51	--	7.12	
MW-8	12/13/04	10.63	2.40	--	8.23	
MW-8	03/08/05	10.63	3.25	--	7.38	
MW-8	06/06/05	10.63	3.01	--	7.62	
MW-8	09/19/05	10.63	4.05	--	6.58	
MW-8	12/12/05	10.63	3.20	--	7.43	
MW-8	03/13/06	10.63	2.22	--	8.41	
MW-8	06/05/06	10.63	2.59	--	8.04	
MW-8	09/11/06	10.63	3.96	--	6.67	
MW-8	12/11/06	10.63	1.81	--	8.82	
MW-8	03/26/07	10.63	4.01	--	6.62	
MW-8	06/18/07	10.63	4.55	--	6.08	
MW-8	09/24/07	10.63	5.05	--	5.58	
MW-8	12/10/07	10.63	4.18	--	6.45	
MW-8	03/03/08	10.63	4.25	--	6.38	
MW-8	06/02/08	10.63	4.65	--	5.98	
MW-8	09/04/08	10.63	4.69	--	5.94	
MW-8	12/04/08	10.63	--	--	--	Not Measured-Inaccessible
MW-8	03/04/09	10.63	3.36	--	7.27	
MW-8	06/01/09	10.63	3.67	--	6.96	
MW-8	09/21/09	10.63	4.42	--	6.21	
MW-8	11/16/09	10.63	2.85	--	7.78	
MW-8	03/08/10	10.63	2.65	--	7.98	
MW-8	06/07/10	10.63	3.10	--	7.53	
MW-8	09/09/10	10.63	4.29	--	6.34	
MW-8	11/15/10	10.63	3.12	--	7.51	
MW-8	03/01/11	10.63	2.22	--	8.41	
MW-8	05/23/11	10.63	2.76	--	7.87	
MW-8	08/29/11	10.63	4.22	--	6.41	
MW-8	12/01/11	10.63	3.11	--	7.52	
MW-8	03/01/12	10.63	3.18	--	7.45	
MW-8	05/30/12	10.63	3.27	--	7.36	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-8	08/25/12	10.63	4.02	--	6.61	
MW-8	11/07/12	10.63	2.93	--	7.70	
MW-8	02/27/13	10.63	2.98	--	7.65	
MW-8	04/08/13	10.63	2.41	--	8.22	
MW-8	07/29/13	10.63	3.98	--	6.65	
MW-8	10/02/13	10.63	2.86	--	7.77	
MW-8	01/21/14	10.63	3.56	--	7.07	
MW-8	04/22/14	10.63	2.68	--	7.95	
MW-8	07/15/14	10.63	3.83	--	6.80	
MW-9	02/11/02	6.14	2.03	0.02	4.13*	
MW-9	05/20/02	6.14	4.16	0.01	1.99*	
MW-9	08/27/02	6.14	5.85	0.01	0.30*	
MW-9	11/04/02	6.14	4.07	0.01	2.08*	
MW-9	02/18/03	6.14	2.35	0.01	3.80*	
MW-9	06/09/03	6.14	3.53	--	2.61	
MW-9	09/15/03	9.75	3.99	Sheen	5.76	
MW-9	11/18/03	9.75	2.95	Sheen	6.80	
MW-9	02/24/04	9.75	2.41	Sheen	7.34	
MW-9	05/10/04	9.75	3.36	--	6.39	
MW-9	08/24/04	9.75	3.46	--	6.29	
MW-9	12/13/04	9.75	2.73	--	7.02	
MW-9	03/08/05	9.75	3.24	--	6.51	
MW-9	06/06/05	9.75	3.13	--	6.62	
MW-9	09/19/05	9.75	3.91	--	5.84	
MW-9	12/12/05	9.75	3.27	--	6.48	
MW-9	03/13/06	9.75	2.30	--	7.45	
MW-9	06/05/06	9.75	2.74	--	7.01	
MW-9	09/11/06	9.75	3.85	--	5.90	
MW-9	12/11/06	9.75	2.09	--	7.66	
MW-9	03/26/07	9.75	2.44	--	7.31	
MW-9	06/18/07	9.75	2.44	--	7.31	
MW-9	09/24/07	9.75	3.88	--	5.87	
MW-9	12/10/07	9.75	2.24	Sheen	7.51	
MW-9	03/03/08	9.75	2.82	Sheen	6.93	
MW-9	06/02/08	9.75	3.52	--	6.23	
MW-9	09/04/08	9.75	3.54	--	6.21	
MW-9	12/04/08	9.75	3.34	--	6.41	
MW-9	03/04/09	9.75	2.89	--	6.86	
MW-9	06/01/09	9.75	3.19	--	6.56	
MW-9	09/21/09	9.75	3.76	Sheen	5.99	
MW-9	11/16/09	9.75	2.63	--	7.12	
MW-9	03/08/10	9.75	2.31	Sheen	7.44	
MW-9	06/07/10	9.75	2.72	Sheen	7.03	
MW-9	09/09/10	9.75	3.69	Sheen	6.06	
MW-9	11/15/10	9.75	2.71	Sheen	7.04	
MW-9	03/01/11	9.75	2.39	Sheen	7.36	
MW-9	05/23/11	9.75	2.58	Sheen	7.17	
MW-9	08/29/11	9.75	3.57	--	6.18	
MW-9	12/01/11	9.75	2.90	--	6.85	
MW-9	03/01/12	9.75	2.96	--	6.79	
MW-9	05/30/12	9.75	2.66	--	7.09	
MW-9	08/25/12	9.75	3.28	--	6.47	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-9	11/07/12	9.75	2.49	--	7.26	
MW-9	02/27/13	9.75	2.71	--	7.04	
MW-9	04/08/13	9.75	2.02	--	7.73	
MW-9	06/21/13	9.75	3.01	--	6.74	Baseline monitoring event
MW-9	07/29/13	9.75	3.19	--	6.56	
MW-9	08/26/13	9.75	3.11	--	6.64	Two-month monitoring event
MW-9	10/02/13	9.75	2.40	--	7.35	
MW-9	01/21/14	9.75	2.85	--	6.90	
MW-9	04/22/14	9.75	2.07	--	7.68	
MW-9	07/15/14	9.75	3.06	--	6.69	
MW-10D	03/27/01	--	--	--	--	Not Measured-Damaged
MW-10D	09/24/07	9.75	3.88	--	5.87	
MW-10D	**Destroyed during construction activities in 2000**					
MW-11D	02/11/02	6.81	3.75	--	3.06	
MW-11D	05/20/02	6.81	5.27	0.02	1.56*	
MW-11D	08/27/02	6.81	4.70	0.01	2.12*	
MW-11D	11/04/02	6.81	4.93	--	1.88	
MW-11D	02/18/03	6.81	3.59	--	3.22	
MW-11D	06/09/03	6.81	4.55	--	2.26	
MW-11D	09/15/03	10.78	4.91	--	5.87	
MW-11D	11/18/03	10.78	4.28	--	6.50	
MW-11D	02/24/04	10.78	3.71	--	7.07	
MW-11D	05/10/04	10.78	4.35	--	6.43	
MW-11D	08/24/04	10.78	4.13	--	6.65	
MW-11D	12/13/04	10.78	4.26	--	6.52	
MW-11D	03/08/05	10.78	4.58	--	6.20	
MW-11D	06/06/05	10.78	4.43	--	6.35	
MW-11D	09/19/05	10.78	4.89	--	5.89	
MW-11D	12/12/05	10.78	4.64	--	6.14	
MW-11D	03/13/06	10.78	3.84	--	6.94	
MW-11D	06/05/06	10.78	4.31	--	6.47	
MW-11D	09/11/06	10.78	4.91	--	5.87	
MW-11D	12/11/06	10.78	3.63	--	7.15	
MW-12	02/11/02	--	--	--	--	Destroyed during construction activities
MW-12	**Destroyed during construction activities**					
MW-12R	02/11/02	11.15	6.12	--	5.03	
MW-12R	05/20/02	11.15	8.36	--	2.79	
MW-12R	08/27/02	11.15	8.19	--	2.96	
MW-12R	11/04/02	11.15	8.56	--	2.59	
MW-12R	02/18/03	11.15	7.85	--	3.30	
MW-12R	06/09/03	11.15	7.67	--	3.48	
MW-12R	09/15/03	15.47	8.45	--	7.02	
MW-12R	11/18/03	15.47	7.87	--	7.60	
MW-12R	02/24/04	15.47	6.98	--	8.49	
MW-12R	05/10/04	15.47	7.79	--	7.68	
MW-12R	08/24/04	15.47	8.11	--	7.36	
MW-12R	12/13/04	15.47	7.54	--	7.93	
MW-12R	03/08/05	15.47	7.93	--	7.54	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-12R	06/06/05	15.47	6.41	--	9.06	
MW-12R	09/19/05	15.47	8.41	--	7.06	
MW-12R	12/12/05	15.47	7.92	--	7.55	
MW-12R	03/13/06	15.47	6.85	--	8.62	
MW-12R	06/05/06	15.47	7.43	--	8.04	
MW-12R	09/11/06	15.47	8.39	--	7.08	
MW-12R	12/11/06	15.47	6.95	--	8.52	
MW-12R	03/26/07	15.47	7.02	--	8.45	
MW-12R	06/18/07	15.47	7.84	--	7.63	
MW-12R	09/25/07	15.47	8.38	--	7.09	
MW-12R	12/10/07	15.47	7.02	--	8.45	
MW-12R	03/03/08	15.47	7.11	--	8.36	
MW-12R	06/02/08	15.47	7.98	--	7.49	
MW-12R	09/04/08	15.47	8.13	--	7.34	
MW-12R	12/04/08	15.47	7.98	--	7.49	
MW-12R	03/04/09	15.47	7.54	--	7.93	
MW-12R	06/01/09	15.47	7.71	--	7.76	
MW-12R	09/21/09	15.47	8.39	--	7.08	
MW-12R	11/16/09	15.47	7.40	--	8.07	
MW-12R	03/08/10	15.47	6.86	--	8.61	
MW-12R	06/07/10	15.47	7.23	--	8.24	
MW-12R	09/09/10	15.47	8.22	--	7.25	
MW-12R	11/15/10	15.47	7.40	--	8.07	
MW-12R	03/01/11	15.47	6.76	--	8.71	
MW-12R	05/23/11	15.47	6.87	--	8.60	
MW-12R	08/29/11	15.47	8.07	--	7.40	
MW-12R	12/01/11	15.47	7.51	--	7.96	
MW-12R	03/01/12	15.47	7.31	--	8.16	
MW-12R	05/30/12	15.47	7.30	--	8.17	
MW-12R	08/25/12	15.47	7.89	--	7.58	
MW-12R	11/07/12	15.47	7.34	--	8.13	
MW-12R	02/27/13	15.47	7.02	--	8.45	
MW-12R	04/08/13	15.47	6.88	--	8.59	
MW-12R	07/29/13	15.47	7.84	--	7.63	
MW-12R	10/02/13	15.47	7.42	--	8.05	
MW-12R	01/21/14	15.47	7.70	--	7.77	
MW-12R	04/22/14	15.47	6.90	--	8.57	
MW-12R	07/15/14	15.47	7.73	--	7.74	
MW-13	02/11/02	--	--	--	--	Destroyed during construction activities
MW-13	**Destroyed during construction activities**					
MW-13R	02/11/02	10.99	5.95	--	5.04	
MW-13R	05/20/02	10.99	8.08	--	2.91	
MW-13R	08/27/02	10.99	7.93	--	3.06	
MW-13R	11/04/02	10.99	8.30	--	2.69	
MW-13R	02/18/03	10.99	6.55	--	4.44	
MW-13R	06/09/03	10.99	7.37	--	3.62	
MW-13R	09/15/03	15.15	8.19	--	6.96	
MW-13R	11/18/03	15.15	7.56	--	7.59	
MW-13R	02/24/04	15.15	6.50	--	8.65	
MW-13R	05/10/04	15.15	7.45	--	7.70	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-13R	08/24/04	15.15	8.13	--	7.02	
MW-13R	12/13/04	15.15	7.10	--	8.05	
MW-13R	03/08/05	15.15	7.62	--	7.53	
MW-13R	06/06/05	15.15	7.37	--	7.78	
MW-13R	09/19/05	15.15	8.22	--	6.93	
MW-13R	12/12/05	15.15	7.61	--	7.54	
MW-13R	03/13/06	15.15	6.50	--	8.65	
MW-13R	06/05/06	15.15	7.03	--	8.12	
MW-13R	09/11/06	15.15	8.13	--	7.02	
MW-13R	12/11/06	15.15	6.60	--	8.55	
MW-13R	03/26/07	15.15	6.60	--	8.55	
MW-13R	06/18/07	15.15	7.53	--	7.62	
MW-13R	09/25/07	15.15	8.10	--	7.05	
MW-13R	12/10/07	15.15	6.74	--	8.41	
MW-13R	03/03/08	15.15	7.45	--	7.70	
MW-13R	06/02/08	15.15	7.70	--	7.45	
MW-13R	09/04/08	15.15	7.86	--	7.29	
MW-13R	12/04/08	15.15	7.72	--	7.43	
MW-13R	03/04/09	15.15	7.30	--	7.85	
MW-13R	06/01/09	15.15	7.43	--	7.72	
MW-13R	09/21/09	15.15	8.12	--	7.03	
MW-13R	11/16/09	15.15	7.07	--	8.08	
MW-13R	03/08/10	15.15	6.57	--	8.58	
MW-13R	06/07/10	15.15	6.95	--	8.20	
MW-13R	09/09/10	15.15	7.94	--	7.21	
MW-13R	11/15/10	15.15	7.12	--	8.03	
MW-13R	03/01/11	15.15	6.42	--	8.73	
MW-13R	05/23/11	15.15	6.52	--	8.63	
MW-13R	08/29/11	15.15	7.79	--	7.36	
MW-13R	12/01/11	15.15	7.21	--	7.94	
MW-13R	03/01/12	15.15	6.99	--	8.16	
MW-13R	05/25/12	--	--	--	--	Abandoned
MW-13R			**Abandoned on 5/25/2012**			
MW-14	02/11/02	7.55	1.65	--	5.90	
MW-14	05/20/02	7.55	4.46	--	3.09	
MW-14	08/27/02	7.55	4.58	--	2.97	
MW-14	11/04/02	7.55	5.95	--	1.60	
MW-14	02/18/03	7.55	2.60	--	4.95	
MW-14	06/09/03	7.55	3.86	--	3.69	
MW-14	09/15/03	11.44	5.11	--	6.33	
MW-14	11/18/03	11.44	3.30	--	8.14	
MW-14	02/24/04	11.44	2.55	--	8.89	
MW-14	05/10/04	11.44	3.92	--	7.52	
MW-14	08/24/04	11.44	4.23	--	7.21	
MW-14	12/13/04	11.44	3.28	--	8.16	
MW-14	03/08/05	11.44	3.71	--	7.73	
MW-14	06/06/05	11.44	3.37	--	8.07	
MW-14	09/19/05	11.44	4.79	--	6.65	
MW-14	12/12/05	11.44	3.72	--	7.72	
MW-14	03/13/06	11.44	2.40	--	9.04	
MW-14	06/05/06	11.44	3.07	--	8.37	
MW-14	09/11/06	11.44	4.90	--	6.54	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-14	12/11/06	11.44	2.02	--	9.42	
MW-14	03/26/07	11.44	2.61	--	8.83	
MW-14	06/18/07	11.44	3.91	--	7.53	
MW-14	09/24/07	11.44	4.64	--	6.80	
MW-14	12/10/07	11.44	2.44	--	9.00	
MW-14	03/03/08	11.44	3.19	--	8.25	
MW-14	06/02/08	11.44	3.82	--	7.62	
MW-14	09/04/08	11.44	4.22	--	7.22	
MW-14	12/04/08	11.44	4.04	--	7.40	
MW-14	03/04/09	11.44	3.37	--	8.07	
MW-14	06/01/09	11.44	3.61	--	7.83	
MW-14	09/21/09	11.44	4.59	--	6.85	
MW-14	11/16/09	11.44	2.82	--	8.62	
MW-14	03/08/10	11.44	2.48	--	8.96	
MW-14	06/07/10	11.44	2.99	--	8.45	
MW-14	09/09/10	11.44	4.33	--	7.11	
MW-14	11/15/10	11.44	3.01	--	8.43	
MW-14	03/01/11	11.44	2.03	--	9.41	
MW-14	05/23/11	11.44	2.36	--	9.08	
MW-14	08/29/11	11.44	4.20	--	7.24	
MW-14	12/01/11	11.44	3.17	--	8.27	
MW-14	03/01/12	11.44	3.05	--	8.39	
MW-14	05/30/12	11.44	3.09	--	8.35	
MW-14	08/25/12	11.44	4.04	--	7.40	
MW-14	11/07/12	11.44	2.92	--	8.52	
MW-14	02/27/13	11.44	2.66	--	8.78	
MW-14	04/08/13	11.44	2.18	--	9.26	
MW-14	07/29/13	11.44	3.90	--	7.54	
MW-14	10/02/13	11.44	3.08	--	8.36	
MW-14	01/21/14	11.44	5.59	--	5.85	
MW-14	04/22/14	11.44	2.19	--	9.25	
MW-14	07/15/14	11.44	3.71	--	7.73	
MW-15	02/11/02	9.03	3.94	--	5.09	
MW-15	05/20/02	9.03	6.18	--	2.85	
MW-15	08/27/02	9.03	6.10	--	2.93	
MW-15	11/04/02	9.03	6.48	--	2.55	
MW-15	02/18/03	9.03	4.50	--	4.53	
MW-15	06/09/03	9.03	5.49	--	3.54	
MW-15	09/15/03	12.86	6.35	--	6.51	
MW-15	11/18/03	12.86	5.49	--	7.37	
MW-15	02/24/04	12.86	4.67	--	8.19	
MW-15	05/10/04	12.86	5.56	Sheen	7.30	
MW-15	08/24/04	12.86	6.10	--	6.76	
MW-15	12/13/04	12.86	4.34	--	8.52	
MW-15	03/08/05	12.86	5.58	--	7.28	
MW-15	06/06/05	12.86	5.42	--	7.44	
MW-15	09/19/05	12.86	6.34	--	6.52	
MW-15	12/12/05	12.86	5.63	--	7.23	
MW-15	03/13/06	12.86	4.33	--	8.53	
MW-15	06/05/06	12.86	5.15	--	7.71	
MW-15	09/11/06	12.86	6.30	--	6.56	
MW-15	12/11/06	12.86	4.43	--	8.43	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-15	03/26/07	12.86	4.60	--	8.26	
MW-15	06/18/07	12.86	5.61	--	7.25	
MW-15	06/02/08	12.86	5.80	--	7.06	
MW-15	09/04/08	12.86	6.02	--	6.84	
MW-15	12/04/08	12.86	5.82	--	7.04	
MW-16	02/11/02	11.19	6.19	--	5.00	
MW-16	05/20/02	11.19	8.23	--	2.96	
MW-16	08/27/02	11.19	8.32	--	2.87	
MW-16	11/04/02	11.19	8.72	--	2.47	
MW-16	02/18/03	11.19	7.65	--	3.54	
MW-16	06/09/03	11.19	7.46	--	3.73	
MW-16	09/15/03	15.23	8.55	--	6.68	
MW-16	11/18/03	15.23	7.69	--	7.54	
MW-16	02/24/04	15.23	6.40	--	8.83	
MW-16	05/10/04	15.23	7.60	--	7.63	
MW-16	08/24/04	15.23	8.21	--	7.02	
MW-16	12/13/04	15.23	7.80	--	7.43	
MW-16	03/08/05	15.23	7.55	--	7.68	
MW-16	06/06/05	15.23	7.38	--	7.85	
MW-16	09/19/05	15.23	8.40	--	6.83	
MW-16	12/12/05	15.23	7.69	--	7.54	
MW-16	03/13/06	15.23	6.16	--	9.07	
MW-16	06/05/06	15.23	7.22	--	8.01	
MW-16	09/11/06	15.23	8.32	--	6.91	
MW-16	12/11/06	15.23	6.40	--	8.83	
MW-16	03/26/07	15.23	6.53	--	8.70	
MW-16	06/18/07	15.23	7.60	--	7.63	
MW-16	09/24/07	15.23	8.36	--	6.87	
MW-16	12/10/07	15.23	6.85	--	8.38	
MW-16	03/03/08	15.23	6.95	--	8.28	
MW-16	06/02/08	15.23	7.62	--	7.61	
MW-16	09/04/08	15.23	8.07	--	7.16	
MW-16	12/04/08	15.23	7.82	--	7.41	
MW-16	03/04/09	15.23	7.47	--	7.76	
MW-16	06/01/09	15.23	7.37	--	7.86	
MW-16	09/21/09	15.23	8.33	--	6.90	
MW-16	11/16/09	15.23	7.30	--	7.93	
MW-16	03/08/10	15.23	6.34	--	8.89	
MW-16	06/07/10	15.23	6.87	--	8.36	
MW-16	09/09/10	15.23	8.04	--	7.19	
MW-16	11/15/10	15.23	7.14	--	8.09	
MW-16	03/01/11	15.23	6.12	--	9.11	
MW-16	05/23/11	15.23	6.22	--	9.01	
MW-16	08/29/11	15.23	7.97	--	7.26	
MW-16	12/01/11	15.23	7.45	--	7.78	
MW-16	03/01/12	15.23	6.81	--	8.42	
MW-16	05/30/12	15.23	6.71	--	8.52	
MW-16	08/25/12	15.23	7.57	--	7.66	
MW-16	11/07/12	15.23	7.20	--	8.03	
MW-16	02/27/13	15.23	6.18	--	9.05	
MW-16	04/08/13	15.23	6.28	--	8.95	
MW-16	07/29/13	15.23	7.31	--	7.92	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-16	10/02/13	15.23	7.21	--	8.02	
MW-16	01/21/14	15.23	7.19	--	8.04	
MW-16	04/22/14	15.23	6.12	--	9.11	
MW-16	07/15/14	15.23	7.22	--	8.01	
MW-17	02/11/02	11.43	6.13	--	5.30	
MW-17	05/20/02	11.43	8.38	--	3.05	
MW-17	08/27/02	11.43	8.50	--	2.93	
MW-17	11/04/02	11.43	8.91	--	2.52	
MW-17	02/18/03	11.43	6.70	--	4.73	
MW-17	06/09/03	11.43	7.71	--	3.72	
MW-17	09/15/03	15.38	8.71	--	6.67	
MW-17	11/18/03	15.38	11.83	--	3.55	
MW-17	02/24/04	15.38	7.20	--	8.18	
MW-17	05/10/04	15.38	7.77	--	7.61	
MW-17	08/24/04	15.38	8.36	--	7.02	
MW-17	12/13/04	15.38	7.85	--	7.53	
MW-17	03/08/05	15.38	7.65	--	7.73	
MW-17	06/06/05	15.38	7.55	--	7.83	
MW-17	09/19/05	15.38	8.56	--	6.82	
MW-17	12/12/05	15.38	7.85	--	7.53	
MW-17	03/13/06	15.38	6.30	--	9.08	
MW-17	06/05/06	15.38	7.44	--	7.94	
MW-17	09/11/06	15.38	8.52	--	6.86	
MW-17	12/11/06	15.38	6.49	--	8.89	
MW-17	05/23/11	15.38	6.30	--	9.08	
MW-17	08/29/11	15.38	6.30	--	9.08	
MW-18	02/11/02	11.29	5.97	--	5.32	
MW-18	05/20/02	11.29	8.20	--	3.09	
MW-18	08/27/02	11.29	7.34	--	3.95	
MW-18	11/04/02	11.29	8.73	--	2.56	
MW-18	02/18/03	11.29	6.45	--	4.84	
MW-18	06/09/03	11.29	7.59	--	3.70	
MW-18	09/15/03	15.49	8.65	--	6.84	
MW-18	11/18/03	15.49	7.68	--	7.81	
MW-18	02/24/04	15.49	6.38	--	9.11	
MW-18	05/10/04	15.49	7.65	--	7.84	
MW-18	08/24/04	15.49	8.17	--	7.32	
MW-18	12/13/04	15.49	7.61	--	7.88	
MW-18	03/08/05	15.49	7.47	--	8.02	
MW-18	06/06/05	15.49	7.41	--	8.08	
MW-18	09/19/05	15.49	8.43	--	7.06	
MW-18	12/12/05	15.49	7.70	--	7.79	
MW-18	03/13/06	15.49	6.23	--	9.26	
MW-18	06/05/06	15.49	7.31	--	8.18	
MW-18	09/11/06	15.49	8.34	--	7.15	
MW-18	12/11/06	15.49	6.34	--	9.15	
MW-18	03/26/07	15.49	6.59	--	8.90	
MW-18	06/18/07	15.49	7.66	--	7.83	
MW-18	09/24/07	15.49	8.40	--	7.09	
MW-18	12/10/07	15.49	6.68	--	8.81	
MW-18	03/03/08	15.49	6.98	--	8.51	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-18	06/02/08	15.49	7.70	--	7.79	
MW-18	09/04/08	15.49	8.11	--	7.38	
MW-18	12/04/08	15.49	7.84	--	7.65	
MW-18	03/04/09	15.49	7.34	--	8.15	
MW-18	06/01/09	15.49	7.36	--	8.13	
MW-18	09/21/09	15.49	8.40	--	7.09	
MW-18	11/16/09	15.49	7.18	--	8.31	
MW-18	03/08/10	15.49	6.23	--	9.26	
MW-18	06/07/10	15.49	6.89	--	8.60	
MW-18	09/09/10	15.49	8.11	--	7.38	
MW-18	11/15/10	15.49	7.12	--	8.37	
MW-18	03/01/11	15.49	6.11	--	9.38	
MW-18	05/23/11	15.49	6.25	--	9.24	
MW-18	08/29/11	15.49	7.87	--	7.62	
MW-18	12/01/11	15.49	7.38	--	8.11	
MW-18	03/01/12	15.49	6.88	--	8.61	
MW-18	05/30/12	15.49	6.75	--	8.74	
MW-18	08/25/12	15.49	--	--	--	Inaccessible due to truck parked on top
MW-18	11/07/12	15.49	7.21	--	8.28	
MW-18	02/27/13	15.49	6.43	--	9.06	
MW-18	04/08/13	15.49	6.39	--	9.10	
MW-18	07/29/13	15.49	7.63	--	7.86	
MW-18	10/02/13	15.49	7.39	--	8.10	
MW-18	01/21/14	15.49	7.35	--	8.14	
MW-18	04/22/14	15.49	0.20	--	15.29	
MW-18	07/15/14	15.49	7.31	--	8.18	
MW-19	02/11/02	7.16	1.63	--	5.53	
MW-19	05/20/02	7.16	4.08	Sheen	3.08	
MW-19	08/27/02	7.16	4.25	--	2.91	
MW-19	11/04/02	7.16	4.65	--	2.51	
MW-19	02/18/03	7.16	2.14	--	5.02	
MW-19	06/09/03	7.16	3.45	--	3.71	
MW-19	09/15/03	11.39	4.50	--	6.89	
MW-19	11/18/03	11.39	2.51	--	8.88	
MW-19	02/24/04	11.39	2.36	--	9.03	
MW-19	05/10/04	11.39	3.41	--	7.98	
MW-19	08/24/04	11.39	8.13	--	3.26	
MW-19	12/13/04	11.39	2.98	--	8.41	
MW-19	03/08/05	11.39	3.40	--	7.99	
MW-19	06/06/05	11.39	3.24	--	8.15	
MW-19	09/19/05	11.39	--	--	--	Not Measured-Inaccessible, under pipe stockpile
MW-19	12/12/05	11.39	--	--	--	Not Measured-Inaccessible, under pipe stockpile
MW-19	03/13/06	11.39	--	--	--	Not Measured-Inaccessible, under pipe stockpile
MW-19	06/05/06	11.39	2.91	--	8.48	
MW-19	09/11/06	11.39	4.72	--	6.67	
MW-19	12/11/06	11.39	2.00	--	9.39	
MW-19	03/26/07	11.39	2.22	--	9.17	
MW-19	06/18/07	11.39	3.56	--	7.83	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-19	09/24/07	11.39	4.31	--	7.08	
MW-19	12/10/07	11.39	2.38	--	9.01	
MW-19	03/03/08	11.39	2.98	--	8.41	
MW-19	06/02/08	11.39	3.67	--	7.72	
MW-19	09/04/08	11.39	3.98	--	7.41	
MW-19	12/04/08	11.39	3.68	--	7.71	
MW-19	03/04/09	11.39	3.03	--	8.36	
MW-19	06/01/09	11.39	3.23	--	8.16	
MW-19	09/21/09	11.39	4.23	--	7.16	
MW-19	11/16/09	11.39	2.85	--	8.54	
MW-19	03/08/10	11.39	2.25	--	9.14	
MW-19	06/07/10	11.39	2.67	--	8.72	
MW-19	09/09/10	11.39	3.97	--	7.42	
MW-19	11/15/10	11.39	2.75	--	8.64	
MW-19	03/01/11	11.39	1.82	--	9.57	
MW-19	05/23/11	11.39	2.02	--	9.37	
MW-19	08/29/11	11.39	3.77	--	7.62	
MW-19	12/01/11	11.39	3.03	--	8.36	
MW-19	03/01/12	11.39	2.82	--	8.57	
MW-19	05/30/12	11.39	2.79	--	8.60	
MW-19	08/25/12	11.39	3.62	--	7.77	
MW-19	11/07/12	11.39	2.77	--	8.62	
MW-19	02/27/13	11.39	2.18	--	9.21	
MW-19	04/08/13	11.39	1.82	--	9.57	
MW-19	06/21/13	11.39	3.05	--	8.34	Baseline monitoring event
MW-19	07/29/13	11.39	3.56	--	7.83	
MW-19	08/26/13	11.39	3.45	--	7.94	Two-month monitoring event
MW-19	10/02/13	11.39	2.72	--	8.67	
MW-19	01/21/14	11.39	3.12	--	8.27	
MW-19	04/22/14	11.39	1.81	--	9.58	
MW-19	07/15/14	11.39	3.30	--	8.09	
MW-20	02/11/02	7.37	1.73	--	5.64	
MW-20	05/20/02	7.37	4.25	--	3.12	
MW-20	08/27/02	7.37	4.31	--	3.06	
MW-20	11/04/02	7.37	4.04	--	3.33	
MW-20	02/18/03	7.37	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	06/09/03	7.37	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	09/15/03	11.72	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	11/18/03	11.72	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	02/24/04	11.72	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	05/10/04	11.72	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	08/24/04	11.72	4.04	--	7.68	
MW-20	12/13/04	11.72	2.29	--	9.43	
MW-20	03/08/05	11.72	3.64	--	8.08	
MW-20	06/06/05	11.72	3.43	--	8.29	
MW-20	09/19/05	11.72	4.55	--	7.17	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-20	12/12/05	11.72	3.67	--	8.05	
MW-20	03/13/06	11.72	2.21	--	9.51	
MW-20	06/05/06	11.72	3.00	--	8.72	
MW-20	09/11/06	11.72	4.49	--	7.23	
MW-20	12/11/06	11.72	2.36	--	9.36	
MW-20	03/26/07	11.72	2.49	--	9.23	
MW-20	06/18/07	11.72	4.44	--	7.28	
MW-20	09/24/07	11.72	4.61	--	7.11	
MW-20	12/10/07	11.72	2.56	--	9.16	
MW-20	03/03/08	11.72	2.97	--	8.75	
MW-20	06/02/08	11.72	3.90	--	7.82	
MW-20	09/04/08	11.72	4.14	--	7.58	
MW-20	12/04/08	11.72	3.89	--	7.83	
MW-20	03/04/09	11.72	4.99	--	6.73	
MW-20	06/01/09	11.72	3.46	--	8.26	
MW-20	09/21/09	11.72	4.42	--	7.30	
MW-20	11/16/09	11.72	2.91	--	8.81	
MW-20	03/08/10	11.72	2.40	--	9.32	
MW-20	06/07/10	11.72	2.76	--	8.96	
MW-20	09/09/10	11.72	4.22	--	7.50	
MW-20	11/15/10	11.72	3.03	--	8.69	
MW-20	03/01/11	11.72	2.18	--	9.54	
MW-20	05/23/11	11.72	2.11	--	9.61	
MW-20	08/29/11	11.72	4.05	--	7.67	
MW-20	12/01/11	11.72	3.08	--	8.64	
MW-20	03/01/12	11.72	3.09	--	8.63	
MW-20	05/30/12	11.72	2.89	--	8.83	
MW-20	08/25/12	11.72	3.88	--	7.84	
MW-20	11/07/12	11.72	2.98	--	8.74	
MW-20	02/27/13	11.72	2.60	--	9.12	
MW-20	04/08/13	11.72	2.23	--	9.49	
MW-20	07/29/13	11.72	4.93	--	6.79	
MW-20	10/02/13	11.72	4.64	--	7.08	
MW-20	01/21/14	11.72	3.44	--	8.28	
MW-20	04/22/14	11.72	2.33	--	9.39	
MW-20	07/15/14	11.72	3.51	--	8.21	
MW-21	02/11/02	10.53	3.80	0.46	7.10*	
MW-21	05/20/02	10.53	5.98	0.43	4.89*	
MW-21	08/27/02	10.53	3.95	0.43	6.92*	
MW-21	11/04/02	10.53	4.95	0.01	5.59*	Product recovery pump in well
MW-21	02/18/03	10.53	3.59	0.01	6.95*	Product recovery pump in well
MW-21	06/09/03	10.53	3.53	Sheen	7.00	Product recovery pump in well
MW-21	09/15/03	9.41	3.98	0.01	5.44*	Product recovery pump in well
MW-21	11/18/03	9.41	3.08	Sheen	6.33	Product recovery pump in well
MW-21	02/24/04	9.41	2.47	Sheen	6.94	Product recovery pump in well
MW-21	05/10/04	9.41	3.65	Sheen	5.76	Product recovery pump in well
MW-21	08/24/04	9.41	3.81	Sheen	5.60	Product recovery pump in well
MW-21	12/13/04	9.41	3.24	Sheen	6.17	
MW-21	03/08/05	9.41	3.72	--	5.69	
MW-21	06/06/05	9.41	3.58	Sheen	5.83	
MW-21	09/19/05	9.41	4.19	--	5.22	
MW-21	12/12/05	9.41	4.04	--	5.37	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-21	03/13/06	9.41	2.48	--	6.93	
MW-21	06/05/06	9.41	3.27	--	6.14	
MW-21	09/11/06	9.41	3.90	0.08	5.57*	
MW-21	12/11/06	9.41	2.34	0.04	7.10*	
MW-21	03/26/07	9.41	2.87	--	6.54	
MW-21	06/18/07	9.41	3.75	--	5.66	
MW-21	09/24/07	9.41	3.81	Sheen	5.60	
MW-21	12/10/07	9.41	2.14	--	7.27	
MW-21	03/03/08	9.41	3.18	--	6.23	
MW-21	06/02/08	9.41	3.63	Sheen	5.78	
MW-21	09/04/08	9.41	3.60	--	5.81	
MW-21	12/04/08	9.41	3.48	Sheen	5.93	
MW-21	03/04/09	9.41	2.84	Sheen	6.57	
MW-21	06/01/09	9.41	3.34	--	6.07	
MW-21	09/21/09	9.41	3.74	Sheen	5.67	
MW-21	11/16/09	9.41	2.59	--	6.82	
MW-21	03/08/10	9.41	2.23	--	7.18	
MW-21	06/07/10	9.41	--	--	--	Not Measured
MW-21	09/09/10	9.41	3.66	--	5.75	
MW-21	11/15/10	9.41	2.79	--	6.62	
MW-21	03/01/11	9.41	2.21	--	7.20	
MW-21	05/23/11	9.41	2.47	--	6.94	
MW-21	08/29/11	9.41	3.53	--	5.88	
MW-21	12/01/11	9.41	2.77	Sheen	6.64	
MW-21	03/01/12	9.41	2.27	Sheen	7.14	
MW-21	05/30/12	9.41	2.86	--	6.55	
MW-21	08/25/12	9.41	3.20	--	6.21	
MW-21	11/07/12	9.41	2.53	--	6.88	
MW-21	02/27/13	9.41	2.61	--	6.80	
MW-21	04/08/13	9.41	1.99	--	7.42	
MW-21	07/29/13	9.41	3.31	--	6.10	
MW-21	10/02/13	9.41	2.49	--	6.92	
MW-21	01/21/14	9.41	3.02	--	6.39	
MW-21	04/22/14	9.41	2.37	--	7.04	
MW-21	07/15/14	9.41	3.12	--	6.29	
MW-22	02/11/02	12.39	7.18	--	5.21	
MW-22	05/20/02	12.39	9.44	--	2.95	
MW-22	08/27/02	12.39	9.55	--	2.84	
MW-22	11/04/02	12.39	9.91	--	2.48	
MW-22	02/18/03	12.39	7.75	--	4.64	
MW-22	06/09/03	12.39	8.71	--	3.68	
MW-22	09/15/03	16.32	9.75	--	6.57	
MW-22	11/18/03	16.32	8.55	--	7.77	
MW-22	02/24/04	16.32	7.56	--	8.76	
MW-22	05/10/04	16.32	8.76	--	7.56	
MW-22	08/24/04	16.32	9.25	--	7.07	
MW-22	12/13/04	16.32	8.70	--	7.62	
MW-22	03/08/05	16.32	8.72	--	7.60	
MW-22	06/06/05	16.32	8.58	--	7.74	
MW-22	09/19/05	16.32	9.61	--	6.71	
MW-22	12/12/05	16.32	8.90	--	7.42	
MW-22	03/13/06	16.32	4.37	--	11.95	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-22	06/05/06	16.32	8.31	--	8.01	
MW-22	09/11/06	16.32	9.54	--	6.78	
MW-22	12/11/06	16.32	7.44	--	8.88	
MW-22	03/26/07	16.32	7.68	--	8.64	
MW-22	06/18/07	16.32	8.78	--	7.54	
MW-22	09/24/07	16.32	9.55	--	6.77	
MW-22	12/10/07	16.32	7.84	--	8.48	
MW-22	03/03/08	16.32	8.12	--	8.20	
MW-22	06/02/08	16.32	8.85	--	7.47	
MW-22	09/04/08	16.32	9.22	--	7.10	
MW-22	12/04/08	16.32	9.00	--	7.32	
MW-22	03/04/09	16.32	8.43	--	7.89	
MW-22	06/01/09	16.32	8.56	--	7.76	
MW-22	09/21/09	16.32	9.51	--	6.81	
MW-22	11/16/09	16.32	8.31	--	8.01	
MW-22	03/08/10	16.32	7.40	--	8.92	
MW-22	06/07/10	16.32	8.00	--	8.32	
MW-22	09/09/10	16.32	9.22	--	7.10	
MW-22	11/15/10	16.32	8.20	--	8.12	
MW-22	03/01/11	16.32	7.18	--	9.14	
MW-22	05/23/11	16.32	7.35	--	8.97	
MW-22	08/29/11	16.32	9.01	--	7.31	
MW-22	12/01/11	16.32	8.48	--	7.84	
MW-22	03/01/12	16.32	7.98	--	8.34	
MW-22	05/30/12	16.32	7.92	--	8.40	
MW-22	08/25/12	16.32	8.79	--	7.53	
MW-22	11/07/12	16.32	8.24	--	8.08	
MW-22	02/27/13	16.32	7.42	--	8.90	
MW-22	04/08/13	16.32	7.28	--	9.04	
MW-22	07/29/13	16.32	8.59	--	7.73	
MW-22	10/02/13	16.32	8.29	--	8.03	
MW-22	01/21/14	16.32	8.39	--	7.93	
MW-22	04/22/14	16.32	7.22	--	9.10	
MW-22	07/15/14	16.32	8.45	--	7.87	
MW-23	11/18/03	14.15	7.66	Sheen	6.49	
MW-23	02/24/04	14.15	7.18	Sheen	6.97	
MW-23	05/10/04	14.15	7.89	<0.01	6.26*	
MW-23	08/24/04	14.15	8.89	--	5.26	
MW-23	12/13/04	14.15	7.49	Sheen	6.66	
MW-23	03/08/05	14.15	7.57	Sheen	6.58	
MW-23	06/06/05	14.15	7.72	Sheen	6.43	
MW-23	09/19/05	14.15	8.17	0.17	6.12*	
MW-23	10/12/05	14.15	8.10	Sheen	6.05	
MW-23	12/12/05	14.15	7.93	--	6.22	
MW-23	03/13/06	14.15	7.17	--	6.98	
MW-23	06/05/06	14.15	7.62	--	6.53	
MW-23	09/11/06	14.15	8.22	0.02	5.95*	
MW-23	12/11/06	14.15	7.17	--	6.98	
MW-23	03/26/07	14.15	7.41	--	6.74	
MW-23	06/18/07	14.15	7.90	--	6.25	
MW-23	09/25/07	14.15	8.14	Sheen	6.01	
MW-23	12/10/07	14.15	7.38	Sheen	6.77	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-23	03/03/08	14.15	7.49	Sheen	6.66	
MW-23	06/02/08	14.15	8.71	Sheen	5.44	
MW-23	09/04/08	14.15	8.04	--	6.11	
MW-23	12/04/08	14.15	8.05	--	6.10	
MW-23	03/04/09	14.15	7.48	--	6.67	
MW-23	06/01/09	14.15	7.98	--	6.17	
MW-23	09/21/09	14.15	8.13	--	6.02	
MW-23	11/16/09	14.15	7.50	Sheen	6.65	
MW-23	03/08/10	14.15	7.01	--	7.14	
MW-23	06/07/10	14.15	7.49	Sheen	6.66	
MW-23	09/09/10	14.15	8.02	Sheen	6.13	
MW-23	11/15/10	14.15	7.60	--	6.55	
MW-23	03/01/11	14.15	7.26	Sheen	6.89	
MW-23	05/23/11	14.15	7.38	Sheen	6.77	
MW-23	08/29/11	14.15	7.91	Sheen	6.24	
MW-23	12/01/11	14.15	7.58	--	6.57	
MW-23	03/01/12	14.15	7.35	--	6.80	
MW-23	05/30/12	14.15	7.29	--	6.86	
MW-23	08/25/12	14.15	7.41	--	6.74	
MW-23	11/07/12	14.15	7.19	--	6.96	
MW-23	02/27/13	14.15	7.23	--	6.92	
MW-23	04/08/13	14.15	7.15	--	7.00	
MW-23	07/29/13	14.15	7.47	--	6.68	
MW-23	10/02/13	14.15	7.34	--	6.81	
MW-23	01/21/14	14.15	7.72	--	6.43	
MW-23	04/22/14	14.15	7.25	--	6.90	
MW-23	07/15/14	14.15	7.60	--	6.55	
MW-24	11/18/03	14.34	7.65	Sheen	6.69	
MW-24	02/24/04	14.34	7.07	Sheen	7.27	
MW-24	05/10/04	14.34	7.73	0.02	6.63*	
MW-24	08/24/04	14.34	7.90	0.10	6.52*	
MW-24	12/13/04	14.34	7.47	Sheen	6.87	
MW-24	03/08/05	14.34	7.57	Sheen	6.77	
MW-24	06/06/05	14.34	7.24	0.02	7.12*	
MW-24	09/19/05	14.34	8.39	0.29	6.18*	
MW-24	10/12/05	14.34	8.45	0.47	6.27*	
MW-24	12/12/05	14.34	8.01	0.11	6.42*	
MW-24	03/13/06	14.34	7.19	--	7.15	
MW-24	06/05/06	14.34	7.59	--	6.75	
MW-24	09/11/06	14.34	8.31	0.20	6.19*	
MW-24	12/11/06	14.34	7.37	--	6.97	
MW-24	03/26/07	14.34	7.42	--	6.92	
MW-24	06/18/07	14.34	7.89	--	6.45	
MW-24	09/25/07	14.34	8.00	Sheen	6.34	
MW-24	12/10/07	14.34	7.42	--	6.92	
MW-24	03/03/08	14.34	7.51	Sheen	6.83	
MW-24	06/02/08	14.34	8.92	--	5.42	
MW-24	09/04/08	14.34	7.99	--	6.35	
MW-24	12/04/08	14.34	7.96	--	6.38	
MW-24	03/04/09	14.34	7.51	--	6.83	
MW-24	06/01/09	14.34	7.87	Sheen	6.47	
MW-24	09/21/09	14.34	8.09	--	6.25	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-24	11/16/09	14.34	7.46	Sheen	6.88	
MW-24	03/08/10	14.34	7.03	--	7.31	
MW-24	06/07/10	14.34	7.51	Sheen	6.83	
MW-24	09/09/10	14.34	8.01	Sheen	6.33	
MW-24	11/15/10	14.34	7.61	Sheen	6.73	
MW-24	03/01/11	14.34	7.26	Sheen	7.08	
MW-24	05/23/11	14.34	7.37	--	6.97	
MW-24	08/29/11	14.34	7.92	Sheen	6.42	
MW-24	12/01/11	14.34	7.73	--	6.61	
MW-24	03/01/12	14.34	7.39	--	6.95	
MW-24	05/30/12	14.34	7.41	--	6.93	
MW-24	08/25/12	14.34	7.59	--	6.75	
MW-24	11/07/12	14.34	7.26	--	7.08	
MW-24	02/27/13	14.34	7.34	--	7.00	
MW-24	04/08/13	14.34	7.27	--	7.07	
MW-24	07/29/13	14.34	7.58	--	6.76	
MW-24	10/02/13	14.34	7.34	--	7.00	
MW-24	01/21/14	14.34	7.66	--	6.68	
MW-24	04/22/14	14.34	7.20	--	7.14	
MW-24	07/15/14	14.34	7.59	--	6.75	
MW-25	11/18/03	13.05	7.50	Sheen	5.55	
MW-25	02/24/04	13.05	6.48	Sheen	6.57	
MW-25	05/10/04	13.05	7.61	--	5.44	
MW-25	08/24/04	13.05	7.11	--	5.94	
MW-25	12/13/04	13.05	7.49	--	5.56	
MW-25	03/08/05	13.05	7.61	--	5.44	
MW-25	06/06/05	13.05	7.47	--	5.58	
MW-25	09/19/05	13.05	7.93	--	5.12	
MW-25	12/12/05	13.05	7.71	--	5.34	
MW-25	03/13/06	13.05	7.02	--	6.03	
MW-25	06/05/06	13.05	7.38	--	5.67	
MW-25	09/11/06	13.05	7.88	--	5.17	
MW-25	12/11/06	13.05	7.03	--	6.02	
MW-25	06/18/07	13.05	6.77	--	6.28	
MW-25	03/03/08	13.05	7.28	--	5.77	
MW-25	06/02/08	13.05	7.71	--	5.34	
MW-25	09/04/08	13.05	7.33	--	5.72	
MW-25	12/04/08	13.05	--	--	--	Not Measured
MW-25	06/01/09	13.05	7.60	--	5.45	
MW-25	06/07/10	13.05	7.31	--	5.74	
MW-25	05/23/11	13.05	7.13	--	5.92	
MW-25	04/22/14	13.05	7.09	--	5.96	
E-1	02/11/02	9.04	3.65	--	5.39	
E-1	05/20/02	9.04	4.59	--	4.45	
E-1	08/27/02	9.04	--	--	--	Not Measured-Dry
E-1	11/04/02	--	--	--	--	Not Measured-Dry/Damaged
E-1	06/11/03	--	--	--	--	Not Measured-Damaged
E-1	05/30/12	13.05	7.12	--	5.93	
E-1				**Abandoned**		
SF-01	12/18/00	--	--	--	--	Abandoned

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
SF-01			**Abandoned**			
SF-01R	02/11/02	10.68	7.11	--	3.57	
SF-01R	05/20/02	10.68	9.07	Sheen	1.61	
SF-01R	08/27/02	10.68	8.44	0.01	2.25*	
SF-01R	11/04/02	10.68	9.63	--	1.05	
SF-01R	02/18/03	10.68	7.72	--	2.96	
SF-01R	06/09/03	10.68	8.30	--	2.38	
SF-01R	09/15/03	14.74	8.60	--	6.14	
SF-01R	11/18/03	14.74	7.45	--	7.29	
SF-01R	02/24/04	14.74	7.76	--	6.98	
SF-01R	05/10/04	14.74	8.11	--	6.63	
SF-01R	08/24/04	14.74	8.49	--	6.25	
SF-01R	12/13/04	14.74	--	--	--	Inaccessible, under construction trailer
SF-01R	03/08/05	14.74	8.16	--	6.58	
SF-01R	06/06/05	14.74	8.16	--	6.58	
SF-01R	09/19/05	14.74	--	--	--	Inaccessible, under construction trailer
SF-01R	12/12/05	14.74	8.39	--	6.35	
SF-01R	03/13/06	14.74	7.70	--	7.04	
SF-01R	06/05/06	14.74	8.09	--	6.65	
SF-01R	09/11/06	14.74	8.60	--	6.14	
SF-01R	12/11/06	14.74	7.73	--	7.01	
SH-02	02/11/02	--	--	--	--	Destroyed during construction activities
SH-02			**Destroyed during construction activities**			
SH-02R	02/11/02	9.35	5.45	--	3.90	
SH-02R	05/20/02	9.35	6.49	--	2.86	
SH-02R	08/27/02	9.35	6.27	--	3.08	
SH-02R	11/04/02	9.35	6.62	--	2.73	
SH-02R	02/18/03	9.35	4.85	--	4.50	
SH-02R	06/09/03	9.35	4.75	--	4.60	
SH-02R	09/15/03	13.40	6.50	--	6.90	
SH-02R	11/18/03	13.40	6.03	--	7.37	
SH-02R	02/24/04	13.40	4.62	--	8.78	
SH-02R	05/10/04	13.40	5.88	--	7.52	
SH-02R	08/24/04	13.40	6.21	--	7.19	
SH-02R	12/13/04	13.40	5.14	--	8.26	
SH-02R	03/08/05	13.40	5.90	--	7.50	
SH-02R	06/06/05	13.40	5.72	--	7.68	
SH-02R	09/19/05	13.40	6.56	--	6.84	
SH-02R	12/12/05	13.40	5.94	--	7.46	
SH-02R	03/13/06	13.40	4.80	--	8.60	
SH-02R	06/05/06	13.40	5.41	--	7.99	
SH-02R	09/11/06	13.40	6.54	--	6.86	
SH-02R	12/11/06	13.40	4.82	--	8.58	
SH-02R	03/26/07	13.40	4.98	--	8.42	
SH-02R	06/18/07	13.40	5.94	--	7.46	
SH-02R	09/25/07	13.40	6.54	--	6.86	
SH-02R	12/10/07	13.40	5.13	--	8.27	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
SH-02R	03/03/08	13.40	5.45	--	7.95	
SH-02R	06/02/08	13.40	6.10	--	7.30	
SH-02R	09/04/08	13.40	6.19	--	7.21	
SH-02R	12/04/08	13.40	6.08	--	7.32	
SH-02R	03/04/09	13.40	5.63	--	7.77	
SH-02R	06/01/09	13.40	5.79	--	7.61	
SH-02R	09/21/09	13.40	6.49	--	6.91	
SH-02R	11/16/09	13.40	5.37	--	8.03	
SH-02R	03/08/10	13.40	4.88	--	8.52	
SH-02R	06/07/10	13.40	5.25	--	8.15	
SH-02R	09/09/10	13.40	6.31	--	7.09	
SH-02R	11/15/10	13.40	5.42	--	7.98	
SH-02R	03/01/11	13.40	4.71	--	8.69	
SH-02R	05/23/11	13.40	4.78	--	8.62	
SH-02R	08/29/11	13.40	6.16	--	7.24	
SH-02R	12/01/11	13.40	5.50	--	7.90	
SH-02R	03/01/12	13.40	5.34	--	8.06	
SH-02R	05/30/12	13.40	5.32	--	8.08	
SH-02R	08/25/12	13.40	6.03	--	7.37	
SH-02R	11/07/12	13.40	5.37	--	8.03	
SH-02R	02/27/13	13.40	5.01	--	8.39	
SH-02R	04/08/13	13.40	4.77	--	8.63	
SH-02R	07/29/13	13.40	5.98	--	7.42	
SH-02R	10/02/13	13.40	5.54	--	7.86	
SH-02R	01/21/14	13.40	5.76	--	7.64	
SH-02R	04/22/14	13.40	4.76	--	8.64	
SH-02R	07/15/14	13.40	5.78	--	7.62	
SH-04	02/11/02	13.45	9.40	--	4.05	
SH-04	05/20/02	13.45	11.24	--	2.21	
SH-04	08/27/02	13.45	11.02	--	2.43	
SH-04	11/04/02	13.45	9.31	--	4.14	
SH-04	02/18/03	13.45	9.80	--	3.65	
SH-04	06/09/03	13.45	10.41	--	3.04	
SH-04	09/15/03	17.41	11.15	--	6.26	
SH-04	11/18/03	17.41	7.61	--	9.80	
SH-04	02/24/04	17.41	6.62	--	10.79	
SH-04	05/10/04	17.41	11.40	--	6.01	
SH-04	08/24/04	17.41	10.88	--	6.53	
SH-04	12/13/04	17.41	10.68	--	6.73	
SH-04	03/08/05	17.41	10.33	--	7.08	
SH-04	06/06/05	17.41	10.23	--	7.18	
SH-04	09/19/05	17.41	11.03	--	6.38	
SH-04	12/12/05	17.41	10.53	--	6.88	
SH-04	03/13/06	17.41	9.22	--	8.19	
SH-04	06/05/06	17.41	10.05	--	7.36	
SH-04	09/11/06	17.41	11.00	--	6.41	
SH-04	12/11/06	17.41	9.50	--	7.91	
SH-05R	05/20/02	9.83	8.07	Sheen	1.76	
SH-05R	08/27/02	9.83	7.59	--	2.24	
SH-05R	11/04/02	9.83	7.81	Sheen	2.02	
SH-05R	02/18/03	9.83	7.60	--	2.23	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
SH-05R	06/09/03	9.83	7.29	--	2.54	
SH-05R	09/15/03	13.89	7.42	Sheen	6.47	
SH-05R	11/18/03	13.89	7.21	Sheen	6.68	
SH-05R	02/24/04	13.89	6.41	--	7.48	
SH-05R	05/10/04	13.89	7.33	--	6.56	
SH-05R	08/24/04	13.89	7.60	--	6.29	
SH-05R	12/13/04	13.89	7.15	--	6.74	
SH-05R	03/08/05	13.89	7.62	--	6.27	
SH-05R	06/06/05	13.89	7.24	--	6.65	
SH-05R	09/19/05	13.89	7.80	--	6.09	
SH-05R	12/12/05	13.89	7.49	--	6.40	
SH-05R	03/13/06	13.89	6.38	--	7.51	
SH-05R	06/05/06	13.89	7.10	--	6.79	
SH-05R	09/11/06	13.89	7.72	--	6.17	
SH-05R	12/11/06	13.89	6.61	--	7.28	
SH-05R	03/26/07	13.89	6.82	--	7.07	
SH-05R	06/18/07	13.89	7.43	--	6.46	
SH-05R	09/25/07	13.89	7.72	--	6.17	
SH-05R	12/10/07	13.89	6.70	--	7.19	
SH-05R	03/03/08	13.89	7.01	--	6.88	
SH-05R	06/02/08	13.89	7.50	--	6.39	
SH-05R	09/04/08	13.89	7.55	--	6.34	
SH-05R	12/04/08	13.89	7.12	--	6.77	
SH-05R	03/04/09	13.89	7.02	--	6.87	
SH-05R	06/01/09	13.89	7.36	--	6.53	
SH-05R	09/21/09	13.89	7.73	--	6.16	
SH-05R	11/16/09	13.89	6.93	--	6.96	
SH-05R	03/08/10	13.89	6.47	--	7.42	
SH-05R	06/07/10	13.89	6.63	--	7.26	
SH-05R	09/09/10	13.89	7.58	--	6.31	
SH-05R	11/16/10	13.89	7.04	--	6.85	
SH-05R	03/01/11	13.89	6.58	--	7.31	
SH-05R	05/23/11	13.89	6.74	--	7.15	
SH-05R	08/29/11	13.89	7.52	--	6.37	
SH-05R	12/01/11	13.89	7.09	--	6.80	
SH-05R	03/01/12	13.89	6.89	--	7.00	
SH-05R	05/30/12	13.89	6.91	--	6.98	
SH-05R	08/25/12	13.89	7.29	--	6.60	
SH-05R	11/07/12	13.89	6.79	--	7.10	
SH-05R	02/27/13	13.89	6.77	--	7.12	
SH-05R	04/08/13	13.89	5.59	--	8.30	
SH-05R	07/29/13	13.89	7.25	--	6.64	
SH-05R	10/02/13	13.89	6.82	--	7.07	
SH-05R	01/21/14	13.89	7.18	--	6.71	
SH-05R	04/22/14	13.89	6.59	--	7.30	
SH-05R	07/15/14	13.89	7.17	--	6.72	
MW-07	01/13/97	7.66	--	--	--	Destroyed during construction activities
MW-07	**Destroyed during construction activities**					
MW-07R	02/11/02	9.93	4.95	--	4.98	
MW-07R	05/20/02	9.93	7.29	--	2.64	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-07R	08/27/02	9.93	7.17	--	2.76	
MW-07R	11/04/02	9.93	7.53	--	2.40	
MW-07R	02/18/03	--	--	--	--	Not Measured-Inaccessible; covered with asphalt
MW-07R	06/09/03	--	--	--	--	Not Measured-Inaccessible; covered with asphalt
MW-07R	06/11/03	--	--	--	--	Not Measured-Located & cleaned out
MW-07R	09/15/03	13.92	8.40	--	5.52	
MW-07R	11/18/03	13.92	8.17	--	5.75	
MW-07R	02/24/04	13.92	5.64	--	8.28	
MW-07R	05/10/04	13.92	6.70	--	7.22	
MW-07R	08/24/04	13.92	6.95	--	6.97	
MW-07R	12/13/04	13.92	6.43	--	7.49	
MW-07R	03/08/05	13.92	6.67	--	7.25	
MW-07R	06/06/05	13.92	6.48	--	7.44	
MW-07R	09/19/05	13.92	7.35	--	6.57	
MW-07R	12/12/05	13.92	6.71	--	7.21	
MW-07R	03/13/06	13.92	5.59	--	8.33	
MW-07R	06/05/06	13.92	7.20	--	6.72	
MW-07R	09/11/06	13.92	7.30	--	6.62	
MW-07R	12/11/06	13.92	5.50	--	8.42	
MW-07R	03/26/07	13.92	5.84	--	8.08	
MW-07R	06/18/07	13.92	6.80	--	7.12	
MW-07R	09/25/07	13.92	7.27	--	6.65	
MW-07R	12/10/07	13.92	5.60	--	8.32	
MW-07R	03/03/08	13.92	6.20	--	7.72	
MW-07R	06/02/08	13.92	6.88	--	7.04	
MW-07R	09/04/08	13.92	6.94	--	6.98	
MW-07R	12/04/08	13.92	7.84	--	6.08	
MW-07R	03/04/09	13.92	6.30	--	7.62	
MW-07R	06/01/09	13.92	6.57	--	7.35	
MW-07R	09/21/09	13.92	7.24	--	6.68	
MW-07R	11/16/09	13.92	6.04	--	7.88	
MW-07R	03/08/10	13.92	5.63	--	8.29	
MW-07R	06/07/10	13.92	6.04	--	7.88	
MW-07R	09/09/10	13.92	7.05	--	6.87	
MW-07R	11/15/10	13.92	6.11	--	7.81	
MW-07R	03/01/11	13.92	5.43	--	8.49	
MW-07R	05/23/11	13.92	5.66	--	8.26	
MW-07R	08/29/11	13.92	6.97	--	6.95	
MW-07R	12/01/11	13.92	6.24	--	7.68	
MW-07R	03/01/12	13.92	6.10	--	7.82	
MW-07R	05/30/12	13.92	6.12	--	7.80	
MW-07R	08/25/12	13.92	--	--	--	Not Measured
MW-07R	11/07/12	13.92	6.02	--	7.90	
MW-07R	02/27/13	13.92	5.84	--	8.08	
MW-07R	04/08/13	13.92	5.49	--	8.43	
MW-07R	07/29/13	13.92	6.70	--	7.22	
MW-07R	10/02/13	13.92	6.06	--	7.86	
MW-07R	01/21/14	13.92	6.49	--	7.43	
MW-07R	04/22/14	13.92	5.56	--	8.36	
MW-07R	07/15/14	13.92	6.60	--	7.32	

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
TMW-B1	09/09/10	--	--	--	--	Not Measured-SPH recovery unit in well
TMW-B1	05/23/11	--	7.37	--	--	Not Measured-SPH recovery unit in well
TMW-B1	12/01/11	--	8.17	--	--	Not Measured-SPH recovery unit in well
TMW-B1	03/01/12	--	7.75	--	--	Not Measured-SPH recovery unit in well
TMW-B1	08/25/12	--	8.37	--	--	Not Measured
TMW-B1	07/29/13	--	7.80	--	--	
TMW-B1	10/02/13	--	7.47	--	--	
TMW-B1	01/21/14	--	7.78	--	--	
TMW-B1	04/22/14	--	6.99	--	--	
TMW-B1	07/15/14	--	--	--	--	See SW/KH notes
TMW-1	06/21/13	--	3.44	--	--	Baseline monitoring event
TMW-1	07/29/13	--	3.72	--	--	
TMW-1	08/26/13	--	3.74	--	--	Two-month monitoring event
TMW-1	10/02/13	--	2.97	--	--	
TMW-1	01/21/14	--	3.48	--	--	
TMW-1	04/22/14	--	2.09	--	--	
TMW-1	07/15/14	--	--	--	--	Not done due to no TOC elev datum
TMW-2	06/21/13	--	3.83	--	--	Baseline monitoring event
TMW-2	07/29/13	--	3.94	--	--	
TMW-2	08/26/13	--	3.91	--	--	Two-month monitoring event
TMW-2	10/02/13	--	3.15	--	--	
TMW-2	01/21/14	--	3.63	--	--	
TMW-2	04/22/14	--	2.36	--	--	
TMW-2	07/15/14	--	--	--	--	Not done due to no TOC elev datum
TMW-3	06/21/13	--	3.81	--	--	Baseline monitoring event
TMW-3	07/29/13	--	3.91	--	--	
TMW-3	08/26/13	--	3.88	--	--	Two-month monitoring event
TMW-3	10/02/13	--	3.14	--	--	
TMW-3	01/21/14	--	3.76	--	--	
TMW-3	04/22/14	--	2.41	--	--	
TMW-3	07/15/14	--	--	--	--	Not done due to no TOC elev datum
TMW-4	06/21/13	--	3.50	--	--	Baseline monitoring event
TMW-4	07/29/13	--	3.75	--	--	
TMW-4	08/26/13	--	3.80	--	--	Two-month monitoring event
TMW-4	10/02/13	--	2.99	--	--	
TMW-4	01/21/14	--	3.45	--	--	
TMW-4	04/22/14	--	2.20	--	--	
TMW-4	07/15/14	--	--	--	--	Not done due to no TOC elev datum
TMW-5	06/21/13	--	3.24	--	--	Baseline monitoring event

Table 1

Groundwater Elevation Data
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
TMW-5	07/29/13	--	3.31	--	--	
TMW-5	08/26/13	--	3.39	--	--	Two-month monitoring event
TMW-5	10/02/13	--	2.80	--	--	
TMW-5	01/21/14	--	3.22	--	--	
TMW-5	04/22/14	--	2.42	--	--	
TMW-5	07/15/14	--	--	--	--	Not done due to no TOC elev datum
TMW-6	06/21/13	--	2.93	--	--	Baseline monitoring event
TMW-6	07/29/13	--	2.91	--	--	
TMW-6	08/26/13	--	2.92	--	--	Two-month monitoring event
TMW-6	10/02/13	--	2.12	--	--	
TMW-6	01/21/14	--	2.74	--	--	
TMW-6	04/22/14	--	1.72	--	--	
TMW-6	07/15/14	--	--	--	--	Not done due to no TOC elev datum

Notes:
BTOC = Below Top of casing; Depth to groundwater measured from TOC.
feet-msl = feet above mean sea level.
Wells MW-10D and MW-11D were deep wells, screened from 30 to 35 feet below grade.
^ = Prior to September 2003 monitoring event, top of casing elevation relative to N.G.V.D. 1929 TIDAL 2 vertical datum (survey benchmark elev=10.617). All TOC elevations were re-surveyed in July 2003, relative to N.A.V.D. 1988 vertical datum with modified benchmark elevations to account for shifts from February 2001 earthquake.
* = Groundwater elevation corrected for separate-phase hydrocarbon thickness using the specific gravity of diesel (0.8).

QA/QC: Rory G. Henneck

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-5	02/14/02	<0.25	**2.3**	--	<0.5	--	**0.00055**	**0.0017**	<0.0005	<0.0005	--	--	
A-5	05/22/02	<0.25	**2.0**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-5	08/29/02	<0.25	**1.2**	--	<0.5	--	**0.0017**	**0.00062**	<0.0005	**0.00099**	--	--	
A-5	11/06/02	<0.25	**1.2**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-5	02/20/03	<0.25	<0.25	--	<0.5	--	**0.00086**	**0.0019**	<0.0005	**0.0010**	--	--	
A-5	06/10/03	**0.26**	**0.40**	--	<0.25	--	<0.0005	**0.00067**	<0.0005	**0.00070**	--	--	
A-5	09/17/03	<0.25	**0.60**	--	<0.50	--	**0.0042**	<0.0005	<0.0005	<0.0005	--	--	
A-5	11/20/03	<0.25	**0.53**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-5	02/26/04	<0.25	**3.3**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-5	05/12/04	**0.27**	**0.43**	--	<0.50	--	<0.0005	<0.0005	<0.0005	**0.00057**	--	--	
A-5	08/25/04	<0.25	**1.1**	--	<0.50	--	**0.0029**	<0.0005	<0.0005	<0.0005	--	--	
A-5	12/14/04	<0.25	**0.43**	--	<0.50	--	**0.021**	<0.001	<0.001	<0.001	--	--	
A-5	03/10/05	**0.43**	**5.2**	--	<0.50	--	**0.12**	**0.0025**	<0.001	**0.0012**	--	--	
A-5	06/07/05	**0.54**	**2.4**	--	**1.7**	--	**0.12**	**0.0028**	<0.001	**0.0013**	--	--	
A-5	09/20/05	**0.37**	**1.2**	--	<0.50	--	**0.037**	**0.0017**	<0.001	**0.0011**	--	--	
A-5	12/13/05	**0.44**	**0.31**	--	<0.50	--	**0.049**	**0.0021**	<0.0005	**0.0013**	--	--	
A-5	03/15/06	**0.36**	**0.45**	--	<0.50	--	**0.052**	**0.0017**	<0.001	**0.0017**	--	--	
A-5	06/08/06	**0.91**	**0.55**	--	<0.50	--	**0.099**	**0.0036**	**0.00076**	**0.0034**	--	--	
A-5	09/12/06	**0.46**	**0.43**	--	<0.50	--	**0.031**	**0.0016**	<0.001	**0.0014**	--	--	
A-5	12/12/06	**0.70**	**0.53**	--	<0.50	--	**0.079**	**0.0028**	<0.001	**0.0025**	--	--	
A-5	03/27/07	**1.4**	--	--	--	--	**0.19**	**0.0045**	**0.0014**	**0.0050**	--	--	
A-5	06/19/07	**1.1**	**1.9**	--	<0.50	--	**0.090**	**0.0027**	**0.00072**	**0.0039**	--	--	
A-5	09/24/07	**0.72**	--	--	--	--	**0.039**	**0.0019**	<0.0005	**0.0018**	--	--	
A-5	12/11/07	**0.31**	--	--	--	--	**0.017**	**0.00096**	<0.0005	**0.00088**	--	--	
A-5	03/04/08	**1.4**	--	--	--	--	**0.12**	**0.0040**	<0.0010	**0.0040**	--	--	
A-5	06/03/08	**0.85**	--	--	--	--	**0.048**	<0.0015	<0.0015	**0.0029**	--	--	
A-5	09/08/08	**1.5**	--	--	--	--	**0.15**	**0.0032**	**0.0031**	**0.0076**	--	--	
A-5	12/05/08	**0.64**	--	--	--	--	**0.089**	<0.0010	<0.0010	**0.0038**	--	--	
A-5	03/04/09	<0.25	--	--	--	--	**0.0011**	<0.0010	**0.0020**	**0.0071**	--	--	
A-5	06/03/09	**0.45**	--	--	--	--	**0.022**	<0.0010	<0.0010	**0.0027**	--	--	
A-5	09/22/09	**0.75**	--	--	--	--	**0.063**	**0.0012**	**0.0041**	**0.021**	--	--	
A-5	11/17/09	**0.43**	--	--	--	--	**0.011**	<0.0010	<0.0010	**0.0038**	--	--	
A-5	03/08/10	**0.34**	--	--	--	--	**0.0059**	<0.0010	**0.0012**	**0.0051**	--	--	
A-5	06/09/10	<0.25	--	--	--	--	**0.0063**	<0.0010	<0.0010	**0.0019**	--	--	
A-5	09/10/10	**0.80**	--	--	--	--	**0.031**	**0.00170**	**0.0047**	**0.025**	--	--	
A-5	11/16/10	**0.35**	--	--	--	--	**0.0025**	<0.0010	**0.0011**	**0.0086**	--	--	
A-5	03/02/11	**0.34**	--	--	--	--	**0.0042**	<0.0010	<0.0010	**0.0019**	--	--	
A-5	05/25/11	**0.39**	--	--	--	--	**0.0078**	**0.00057**	<0.0005	**0.0014**	--	--	
A-5	08/30/11	**0.47**	--	--	--	--	**0.0027**	**0.00070**	<0.0005	**0.0013**	--	--	
A-5	12/02/11	**0.29**	--	--	--	--	**0.0017**	<0.0010	<0.0010	<0.0020	--	--	
A-5	03/02/12	<0.25	--	--	--	--	**0.00094**	<0.0005	<0.0005	<0.0005	--	--	
A-5	06/01/12	<0.25	--	--	--	--	**0.012**	<0.0010	<0.0010	**0.0010**	--	--	
A-5 (DUP)	06/01/12	<0.25	--	--	--	--	**0.011**	<0.0010	<0.0010	**0.0010**	--	--	Duplicate of A-5
A-5	08/25/12	**0.57**	--	--	--	--	**0.020**	**0.0012**	<0.0010 o	**0.0014**	--	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-5	11/08/12	**0.27**	**--**	--	**--**	--	**0.028**	<0.001	<0.001	**0.0011**	**--**	--	
A-5	02/28/13	**0.66**	**--**	--	**--**	--	**0.062**	**0.0017**	<0.0005	**0.0013**	**--**	--	
A-5	04/10/13	**0.46**	**--**	--	**--**	--	**0.014**	<0.001	<0.001	<0.001	**--**	--	
A-5	07/29/13	**0.54**	**--**	--	**--**	--	**0.033**	**0.0022**	<0.0005	**0.0022**	**--**	--	
A-5	10/03/13	**0.47**	**--**	--	**--**	--	**0.049**	**0.0014**	<0.001	**0.0016**	**--**	--	
A-5	01/21/14	**0.51**	**--**	--	**--**	--	**0.051**	**0.0012**	<0.001	<0.001	**--**	--	
A-5	04/23/14	**0.60**	**--**	--	**--**	--	**0.025**	**0.0015**	<0.0005	**0.0011**	**--**	--	
A-5	07/15/14	**0.61**	**--**	--	**--**	--	**0.017**	**0.0011**	<0.0005	**0.00095**	**--**	--	
A-8	02/14/02	<0.25	**1.6**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
A-8	05/22/02	<0.25	**0.51**	--	<0.5	--	<0.0005	**0.00058**	<0.0005	<0.0005	**--**	--	
A-8	08/28/02	<0.25	<0.5	--	<0.5	--	<0.0005	**0.0014**	<0.0005	**0.00066**	**--**	--	
A-8	11/06/02	<0.25	**0.43**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
A-8	02/20/03	<0.25	<0.25	--	<0.5	--	<0.0005	**0.00083**	<0.0005	<0.0005	**--**	--	
A-8	06/10/03	<0.25	<0.25	--	<0.25	--	<0.0005	**0.00056**	<0.0005	<0.0005	**--**	--	
A-8	09/17/03	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
A-8	11/20/03	<0.25	**1.4**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
A-8	02/26/04	**0.35**	**1.0**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
A-8	05/12/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
A-8	08/25/04	<0.25	**4.9**	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	**--**	--	
A-8	12/14/04	<0.25	**1.7**	--	<0.50	--	**0.00056**	**0.00052**	<0.0005	**0.00094**	**--**	--	
A-8	03/10/05	<0.25	**2.1**	--	<0.50	--	<0.0005	<0.0005	<0.0005	**0.00055**	**--**	--	
A-8	06/07/05	<0.25	**1.2**	--	**1.5**	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
A-8	09/20/05	<0.25	**3.5**	--	**0.83**	--	**0.0012**	<0.001	<0.001	**0.0012**	**--**	--	
A-8	12/13/05	<0.25	**0.54**	--	<0.50	--	<0.0005	<0.0005	<0.0005	**0.0011**	**--**	--	
A-8	03/15/06	<0.25	**0.55**	--	<0.50	--	<0.0010	<0.0010	<0.0010	**0.0010**	**--**	--	
A-8	06/08/06	<0.25	**0.47**	--	<0.50	--	<0.0010	<0.0010	<0.0010	**0.0010**	**--**	--	
A-8	09/12/06	<0.25	**0.76**	--	<0.50	--	<0.0010	<0.0010	<0.0010	**0.0011**	**--**	--	
A-8	12/12/06	**0.27**	**0.87**	--	<0.50	--	<0.0010	**0.0011**	<0.0010	**0.0015**	**--**	--	
A-8	06/19/07	<0.25	**2.4**	--	**0.58**	--	<0.0010	<0.0010	<0.0010	**0.0010**	**--**	--	
A-8	06/03/08	<0.30	**0.46**	--	<0.50	--	<0.0015	<0.0015	<0.0015	<0.0015	**--**	--	
A-8	06/03/09	<0.25	**1.6**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	**--**	--	
A-8	06/09/10	<0.25	**0.45**	--	<0.50	--	**0.0054**	<0.0010	<0.0010	<0.0010	**--**	--	
A-8	05/25/11	<0.25	**1.2**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	**--**	--	
A-8	06/01/12	<0.50	**0.90**	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	**--**	--	
A-8	04/10/13	**0.25**	**--**	<0.25	<0.50	--	<0.001	<0.001	<0.001	<0.001	**--**	--	
A-8	04/23/14	<0.25	**1.5**	<0.25	<0.50	<0.50	<0.0005	**0.00061**	<0.0005	<0.0005	**--**	--	
A-10	02/14/02	<0.25	**9.2**	--	<0.5	--	<0.0005	**0.00062**	<0.0005	<0.0005	**--**	--	
A-10	05/22/02	**0.31**	**8.8**	--	<0.5	--	<0.0005	**0.00086**	<0.0005	<0.0005	**--**	--	
A-10	08/28/02	**0.30**	**15**	--	<0.5	--	<0.001	<0.001	<0.001	<0.001	**--**	--	
A-10	11/06/02	**0.37**	**13**	--	<0.50	--	<0.0005	**0.00057**	<0.0005	<0.0005	**--**	--	
A-10	02/20/03	<0.25	**6.0**	--	<0.5	--	**0.0013**	<0.0005	<0.0005	**0.00055**	**--**	--	
A-10	06/10/03	**0.45**	**19**	--	<0.25	--	<0.001	<0.001	<0.001	<0.001	**--**	--	
A-10	09/17/03	**0.68**	**30**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
A-10	11/20/03	**1.1**	**89**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
A-10	02/26/04	<0.25	**35**	--	**0.74**	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-10	05/12/04	<0.25	**3.5**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	08/25/04	<0.25	**5.1**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	12/14/04	<0.25	**1.1**	--	<0.50	--	**0.0030**	<0.001	<0.001	<0.001	--	--	
A-10	03/10/05	<0.25	**4.6**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/07/05	**0.30**	**68**	--	**2.1**	--	**0.00069**	<0.0005	<0.0005	<0.0005	--	--	
A-10	09/20/05	**0.60**	**1.5**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	12/13/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	03/15/06	<0.25	**1.7**	--	<0.50	--	<0.0005	<0.0005	<0.0005	**0.00050**	--	--	
A-10	06/08/06	<0.25	**0.66**	--	<0.50	--	<0.0005	<0.0005	<0.0005	**0.00050**	--	--	
A-10	09/12/06	<0.25	**0.65**	--	<0.50	--	<0.0005	<0.0005	<0.0005	**0.00050**	--	--	
A-10	12/12/06	<0.25	**0.98**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/19/07	<0.25	**1.2**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/03/09	<0.25	**2.4**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/09/10	<0.25	**0.56**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	05/25/11	<0.25	**0.80**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/01/12	<0.25	**0.62**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	04/10/13	<0.25	--	0.36	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	04/23/14	<0.25	**0.27**	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-12	12/12/06	<0.25	**0.98**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-12	06/03/08	<0.25	**0.63**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-12	05/25/11	<0.025	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-14R	02/14/02	<0.25	<0.25	--	<0.5	--	**0.00061**	**0.0021**	<0.0005	<0.0005	**0.005***	--	
A-14R	05/22/02	<0.25	<0.5	--	<0.5	--	**0.00053**	**0.0021**	<0.0005	**0.00054**	**0.02***	--	
A-14R	08/28/02	<0.25	<0.5	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
A-14R	11/06/02	<0.25	<0.25	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
A-14R	02/20/03	<0.25	<0.25	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
A-14R	06/10/03	<0.25	<0.25	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.020**	--	
A-14R	09/17/03	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.025***	--	
A-14R	11/20/03	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.032***	--	
A-14R	02/26/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.018***	--	
A-14R	05/12/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	08/25/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	12/14/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0072***	--	
A-14R	03/10/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	06/07/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	09/20/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
A-14R	12/13/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	03/15/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	06/08/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	09/12/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	12/12/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	06/19/07	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-14R	06/03/08	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-14R	06/03/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-14R	06/09/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-14R	05/25/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-14R	06/01/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-14R	04/10/13	<0.25	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-14R	04/23/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-18	05/25/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-19	05/25/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-20	05/25/11	**2.5**	--	--	--	--	<0.0010	<0.0010	**0.037**	**0.013**	--	--	
A-21	02/14/02	<0.25	<0.25	--	<0.5	--	<0.0005	**0.0010**	<0.0005	<0.0005	<0.005*	--	
A-21	05/22/02	<0.25	<0.5	--	<0.5	--	**0.00061**	**0.0017**	<0.0005	**0.00057**	<0.005*	--	
A-21	08/29/02	<0.25	**0.76**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
A-21	11/06/02	<0.25	**0.37**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
A-21	02/19/03	<0.25	<0.5	--	<0.5	--	**0.0013**	**0.0018**	<0.0005	**0.00061**	<0.005*	--	
A-21	06/10/03	**0.25**	<0.25	--	<0.25	--	**0.0082**	**0.00058**	<0.0005	<0.0005	**0.062***	--	
A-21	09/16/03	<0.25	<0.25	--	<0.50	--	**0.0034**	<0.0005	<0.0005	<0.0005	**0.0085***	--	
A-21	11/19/03	**0.47**	<0.25	--	<0.50	--	**0.061**	**0.0019**	<0.0005	**0.0029**	**0.0067***	--	
A-21	02/25/04	**0.63**	<0.50	--	<0.50	--	**0.013**	**0.00066**	**0.045**	**0.0016**	<0.0050*	--	
A-21	05/12/04	**0.50**	<0.25	--	<0.50	--	**0.0019**	<0.0005	**0.0042**	**0.00072**	<0.0050*	--	
A-21	08/25/04	**0.26**	<0.25	--	<0.50	--	**0.0015**	<0.0005	<0.0005	**0.0015**	<0.0050*	--	
A-21	12/14/04	**0.99**	<0.25	--	<0.50	--	**0.061**	**0.0025**	**0.022**	**0.0083**	<0.0050*	--	
A-21	03/10/05	**1.5**	**0.26**	--	<0.50	--	**0.024**	**0.0021**	**0.0025**	**0.011**	**0.020***	--	
A-21	06/07/05	**1.2**	**0.35**	--	<0.50	--	**0.0076**	**0.00084**	**0.00077**	**0.0043**	<0.0050*	--	
A-21	09/20/05	**1.3**	<0.25	--	<0.50	--	**0.011**	**0.0012**	**0.00066**	**0.0048**	<0.0050*	--	
A-21	12/13/05	**1.6**	<0.25	--	<0.50	--	**0.017**	**0.00160**	**0.0015**	**0.0052**	<0.0050*	--	
A-21	03/15/06	**0.97**	<0.25	--	<0.50	--	**0.0098**	**0.00097**	**0.0023**	**0.0033**	<0.0050*	--	
A-21	06/08/06	**0.82**	<0.25	--	<0.50	--	**0.0023**	**0.00059**	<0.0005	**0.0019**	<0.0050*	--	
A-21	09/12/06	**0.85**	<0.25	--	<0.50	--	**0.0019**	<0.0005	<0.0005	**0.0016**	<0.0050*	--	
A-21	12/12/06	**0.85**	<0.25	--	<0.50	--	**0.0071**	<0.0005	**0.0021**	**0.0014**	<0.0050*	--	
A-21	03/27/07	**0.28**	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	06/19/07	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-21	09/25/07	<0.25	--	--	--	--	**0.0040**	<0.0005	<0.0005	<0.0005	--	--	
A-21	12/11/07	**0.51**	--	--	--	--	**0.0062**	<0.0005	**0.026**	**0.0020**	--	--	
A-21	03/04/08	<0.25	--	--	--	--	<0.0005	<0.0005	**0.0051**	<0.0005	--	--	
A-21	06/04/08	<0.25	--	--	--	--	<0.0005	<0.0005	**0.00075**	<0.0005	<0.0050	--	
A-21	09/08/08	**0.41**	--	--	--	--	<0.0005	**0.00074**	**0.0018**	**0.00053**	--	--	
A-21	12/04/08	**0.96**	--	--	--	--	<0.0010	<0.0010	**0.150**	<0.0010	--	--	
A-21	03/04/09	**0.48**	--	--	--	--	**0.0075**	<0.0005	**0.0068**	**0.021**	--	--	
A-21	06/02/09	**0.46**	--	--	--	--	**0.0027**	<0.00050	**0.0023**	**0.0059**	**0.0087**	--	
A-21	09/22/09	**0.27**	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	11/17/09	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	03/08/10	<0.25	--	--	--	--	**0.0026**	<0.0005	**0.0019**	**0.0046**	--	--	
A-21	06/08/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-21	09/10/10	<0.25	--	--	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
A-21	11/16/10	**0.82**	--	--	--	--	<0.0010	<0.0010	**0.056**	**0.011**	--	--	
A-21	03/02/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	05/24/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	

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Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-21	08/30/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	12/02/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0010	--	--	
A-21	03/02/12	**1.7**	--	--	--	--	<0.0010	<0.0010	**0.16**	**0.026**	--	--	
A-21	05/30/12	**1.5**	--	--	--	--	<0.0010	<0.0010	**0.027**	<0.0010	<0.0050	--	
A-21	08/25/12	**1.6**	--	--	--	--	<0.0010 o	<0.0010 o	**0.024**	<0.0010 o	--	--	
A-21	11/08/12	**0.53**	--	--	--	--	<0.0005	<0.0005	**0.0011**	**0.0015**	--	--	
A-21	02/28/13	**0.44**	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	04/10/13	**0.58**	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-21	07/29/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	10/03/13	<0.25	--	--	--	--	<0.001	<0.001	<0.001	<0.001	--	--	
A-21	01/21/14	<0.25	--	--	--	--	<0.001	<0.001	<0.001	<0.001	--	--	
A-21	04/23/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-21	07/15/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-22R	05/25/11	**27**	--	--	--	--	**3.4**	**0.086**	**3.0**	**1.7**	--	--	
A-23R	02/14/02	**0.26**	**2.1**	--	<0.5	--	**0.060**	**0.0010**	**0.0099**	**0.0072**	**0.72*a**	--	
A-23R	05/20/02	**0.74**	**6.9**	--	<0.5	--	**0.15**	<0.001	**0.088**	**0.0067**	**0.095*a**	--	
A-23R	08/28/02	**0.62**	**2.1**	--	<0.5	--	**0.20**	**0.0035**	**0.021**	**0.0075**	**0.23***	--	
A-23R	11/05/02	**0.74**	**1.7**	--	<0.5	--	**0.22**	<0.0015	**0.0059**	**0.014**	**0.18***	--	
A-23R	02/19/03	**0.71**	**2.3**	--	<0.5	--	**0.26**	**0.0033**	**0.0054**	**0.0059**	**0.049***	--	
A-23R	06/10/03	<0.25	**1.8**	--	<0.25	--	**0.0073**	<0.001	**0.0028**	<0.001	<0.005*	--	
A-23R	09/16/03	**0.70**	**1.3**	--	<0.50	--	**0.043**	**0.0029**	**0.057**	**0.0018**	**0.38***	--	
A-23R	11/19/03	**1.0**	**0.78**	--	<0.50	--	**0.080**	**0.0037**	**0.069**	**0.0035**	**0.13***	--	
A-23R	02/25/04	**1.6**	**0.78**	--	<0.50	--	**0.26**	**0.0072**	**0.061**	**0.015**	**0.081***	--	
A-23R	05/12/04	**0.28**	**0.45**	--	<0.50	--	**0.020**	**0.00075**	**0.0022**	**0.00082**	<0.0050*	--	
A-23R	08/25/04	**2.3**	**0.35**	--	<0.50	--	**0.46**	**0.012**	**0.074**	**0.020**	**0.012***	--	
A-23R	12/14/04	**2.0**	**0.65**	--	<0.50	--	**0.37**	**0.0084**	**0.041**	**0.013**	**0.018***	--	
A-23R	03/10/05	**0.60**	**0.31**	--	<0.50	--	**0.035**	**0.0011**	**0.0045**	**0.0014**	**0.035***	--	
A-23R	06/07/05	**0.33**	<0.25	--	<0.50	--	**0.0080**	<0.0005	**0.0012**	<0.0005	**0.013***	--	
A-23R	09/20/05	<0.25	<0.25	--	<0.50	--	**0.00060**	<0.0005	<0.0005	<0.0005	**0.0096*a**	--	
A-23R	12/14/05	**0.37**	<0.25	--	<0.50	--	**0.019**	**0.00056**	**0.00065**	**0.00058**	**0.032***	--	
A-23R	03/15/06	**1.1**	<0.25	--	<0.50	--	**0.34**	**0.0033**	<0.0025	**0.0051**	<0.0050*	--	
A-23R	06/08/06	**0.34**	<0.25	--	<0.50	--	**0.033**	<0.0005	<0.0005	**0.031**	**0.0081***	--	
A-23R	09/12/06	**0.42**	<0.25	--	<0.50	--	**0.010**	<0.0005	**0.032**	**0.0013**	**0.035***	--	
A-23R	12/12/06	**2.1**	<0.25	--	<0.50	--	**0.52**	**0.0066**	**0.053**	**0.021**	<0.0050*	--	
A-23R	03/27/07	**0.86**	--	--	--	--	**0.17**	**0.0019**	**0.0019**	**0.0045**	--	--	
A-23R	06/19/07	**0.44**	--	--	--	--	**0.021**	**0.00058**	**0.010**	**0.0013**	**0.0076***	--	
A-23R	09/24/07	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
A-23R	12/11/07	**0.79**	--	--	--	--	**0.095**	**0.0025**	**0.0050**	**0.0026**	--	--	
A-23R	03/04/08	<0.25	--	--	--	--	**0.00097**	<0.0005	<0.0005	<0.0005	--	--	
A-23R	06/05/08	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-23R	12/05/08	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	03/04/09	<0.25	--	--	--	--	**0.00073**	<0.0005	**0.0022**	**0.013**	--	--	
A-23R	06/02/09	<0.25	--	--	--	--	**0.0013**	<0.00050	**0.0021**	**0.0059**	<0.0050*	--	
A-23R	09/21/09	<0.25	--	--	--	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	
A-23R	11/16/09	<0.25	--	--	--	--	<0.0005	<0.0005	**0.0010**	<0.0005	--	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-23R	03/08/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	06/08/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-23R	09/09/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	11/16/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	03/01/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	05/24/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-23R	08/29/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	12/01/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0010	--	--	
A-23R	03/01/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	05/30/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-23R	11/07/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	02/27/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	04/08/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-23R	07/29/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	10/02/13	<0.25	--	--	--	--	<0.001	<0.001	<0.001	<0.001	--	--	
A-23R	01/21/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	04/22/14	<0.25	--	--	--	--	<0.001	<0.001	<0.001	<0.001	<0.0050	<0.0050	
A-23R	07/15/14	<0.25	--	--	--	--	**0.00092**	<0.0005	<0.0005	<0.0005	--	--	
A-25	06/16/11	**4.1**	--	--	--	--	**0.27**	**0.038**	**0.28**	**0.19**	--	--	
A-26R	05/25/11	**22**	--	--	--	--	**4.0**	**0.095**	**1.6**	**0.75**	--	--	
A-27	02/14/02	**2.9**	**11**	--	<0.5	--	**0.13**	**0.014**	**0.096**	**0.25**	--	--	
A-27	05/22/02	**3.3**	**8.2**	--	<0.5	--	**0.20**	**0.016**	**0.14**	**0.38**	--	--	
A-27	08/29/02	**3.8**	**8.1**	--	<0.5	--	**0.24**	**0.016**	**0.14**	**0.29**	--	--	
A-27	11/06/02	**3.2**	**8.0**	--	<0.5	--	**0.16**	**0.016**	**0.065**	**0.14**	--	--	
A-27	02/19/03	**3.1**	**6.8**	--	<0.5	--	**0.17**	**0.017**	**0.052**	**0.13**	--	--	
A-27	06/10/03	**3.7**	**4.5**	--	<0.25	--	**0.14**	**0.013**	**0.11**	**0.23**	--	--	
A-27	09/16/03	**4.5**	**5.6**	--	<0.50	--	**0.27**	**0.020**	**0.18**	**0.38**	--	--	
A-27	11/19/03	**5.9**	**5.3**	--	<0.50	--	**0.25**	**0.023**	**0.13**	**0.33**	--	--	
A-27	02/25/04	**4.4**	**16**	--	<0.50	--	**0.15**	**0.016**	**0.18**	**0.30**	--	--	
A-27	05/11/04	**4.6**	**5.2**	--	<0.50	--	**0.16**	**0.017**	**0.23**	**0.38**	--	--	
A-27	08/25/04	**4.7**	**2.5**	--	<0.50	--	**0.25**	**0.018**	**0.17**	**0.24**	--	--	
A-27	12/14/04	**4.5**	**4.4**	--	<0.50	--	**0.11**	**0.012**	**0.099**	**0.14**	--	--	
A-27	03/10/05	**5.8**	**4.7**	--	<0.50	--	**0.14**	**0.015**	**0.16**	**0.22**	--	--	
A-27	06/07/05	**4.5**	**7.8**	--	<0.50	--	**0.17**	**0.014**	**0.24**	**0.34**	--	--	
A-27	09/20/05	**6.3**	**2.3**	--	<0.50	--	**0.25**	**0.019**	**0.18**	**0.22**	--	--	
A-27	12/13/05	**3.7**	**0.83**	--	<0.50	--	**0.13**	**0.012**	**0.083**	**0.095**	--	--	
A-27	03/15/06	**4.4**	**1.3**	--	<0.50	--	**0.13**	**0.017**	**0.19**	**0.24**	--	--	
A-27	06/08/06	**4.5**	**1.1**	--	<0.50	--	**0.19**	**0.016**	**0.23**	**0.28**	--	--	
A-27	09/12/06	**3.4**	**0.82**	--	<0.50	--	**0.17**	**0.011**	**0.12**	**0.12**	--	--	
A-27	12/12/06	**3.7**	**0.90**	--	<0.50	--	**0.11**	**0.0096**	**0.10**	**0.12**	--	--	
A-27	03/27/07	**3.2**	--	--	--	--	**0.063**	**0.0078**	**0.047**	**0.050**	--	--	
A-27	06/19/07	**2.6**	--	--	--	--	**0.073**	**0.0064**	**0.047**	**0.053**	--	--	
A-27	09/24/07	**2.7**	--	--	--	--	**0.10**	**0.0072**	**0.035**	**0.040**	--	--	
A-27	12/11/07	**4.7**	--	--	--	--	**0.16**	**0.011**	**0.17**	**0.13**	--	--	
A-27	03/04/08	**4.0**	--	--	--	--	**0.10**	**0.011**	**0.14**	**0.11**	--	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-27	06/04/08	**2.5**	--	--	--	--	**0.093**	**0.0063**	**0.022**	**0.041**	--	--	
A-27	09/08/08	**3.5**	--	--	--	--	**0.16**	**0.0091**	**0.067**	**0.047**	--	--	
A-27	12/04/08	**3.1**	--	--	--	--	**0.13**	**0.0075**	**0.091**	**0.046**	--	--	
A-27	03/04/09	**2.5**	--	--	--	--	**0.098**	**0.0080**	**0.070**	**0.043**	--	--	
A-27	06/02/09	**3.1**	--	--	--	--	**0.048**	**0.0065**	**0.11**	**0.050**	--	--	
A-27	09/22/09	**2.9**	--	--	--	--	**0.054**	**0.0064**	**0.099**	**0.037**	--	--	
A-27	11/16/09	**3.0**	--	--	--	--	**0.035**	**0.0051**	**0.0921**	**0.035**	--	--	
A-27	03/09/10	**2.4**	--	--	--	--	**0.024**	**0.0043**	**0.089**	**0.036**	--	--	
A-27	06/08/10	**2.5**	--	--	--	--	**0.021**	**0.0041**	**0.088**	**0.031**	--	--	
A-27	09/09/10	**3.4**	--	--	--	--	**0.035**	**0.0054**	**0.12**	**0.034**	--	--	
A-27	11/16/10	**2.1**	--	--	--	--	**0.014**	**0.0034**	**0.070**	**0.022**	--	--	
A-27	03/02/11	**2.3**	--	--	--	--	**0.014**	**0.0024**	**0.051**	**0.016**	--	--	
A-27	05/24/11	**1.7**	--	--	--	--	**0.0092**	**0.0017**	**0.023**	**0.0096**	--	--	
A-27	08/30/11	**2.1**	--	--	--	--	**0.026**	**0.0021**	**0.022**	**0.011**	--	--	
A-27	12/02/11	**2.2**	--	--	--	--	**0.016**	**0.0026**	**0.030**	**0.0094**	--	--	
A-27	03/01/12	**1.4**	--	--	--	--	**0.012**	**0.0018**	**0.035**	**0.0077**	--	--	
A-27	05/30/12	**1.6**	--	--	--	--	**0.015**	**0.0016**	**0.038**	**0.0066**	--	--	
A-27	08/25/12	**1.5**	--	--	--	--	**0.029**	**0.0018**	**0.0027**	**0.0048**	--	--	
A-27	11/08/12	**1.2**	--	--	--	--	**0.025**	**0.0022**	**0.0093**	**0.0068**	--	--	
A-27	02/28/13	**1.6**	--	--	--	--	**0.038**	**0.0019**	**0.057**	**0.0078**	--	--	
A-27	04/10/13	**1.3**	--	--	--	--	**0.035**	**0.0018**	**0.041**	**0.0053**	--	--	
A-27	06/21/13	**1.0**	**0.40 K**	--	--	--	**0.053**	**0.0024**	**0.043**	**0.0083**	--	--	Baseline monitoring event
A-27	07/30/13	**1.8**	--	--	--	--	**0.073**	**0.0039**	**0.051**	**0.017**	--	--	
A-27 (DUP)	07/30/13	**1.5**	--	--	--	--	**0.058**	**0.0033**	**0.04**	**0.015**	--	--	Duplicate of A-27
A-27	10/02/13	**1.9**	--	--	--	--	**0.066**	**0.0041**	**0.038**	**0.021**	--	--	
A-27	01/22/14	**2.6**	--	--	--	--	**0.078**	**0.0042**	**0.061**	**0.062**	--	--	
A-27	04/22/14	**2.9**	--	--	--	--	**0.062**	**0.0023**	**0.074**	**0.078**	--	--	
A-27	07/15/14	**1.8**	--	--	--	--	**0.051**	**0.0021**	**0.012**	**0.016**	--	--	
A-28R	02/14/02	**5.3**	**2.7**	--	<0.5	--	**0.66**	**0.027**	**0.42**	**0.20**	**0.035***	--	
A-28R	05/22/02	**3.1**	**6.7**	--	<0.5	--	**0.14**	**0.010**	**0.20**	**0.092**	**0.05***	--	
A-28R	08/29/02	**4.0**	**6.0**	--	<0.5	--	**0.15**	**0.019**	**0.23**	**0.078**	**0.032***	--	
A-28R	11/06/02	**3.4**	**1.8**	--	<0.5	--	**0.47**	**0.015**	**0.053**	**0.050**	**0.028***	--	
A-28R	02/19/03	**3.5**	**4.6**	--	<0.5	--	**0.46**	**0.015**	**0.051**	**0.050**	**0.013***	--	
A-28R	06/10/03	**3.7**	**2.9**	--	<0.25	--	**0.31**	**0.0081**	**0.085**	**0.051**	**0.064***	--	
A-28R	09/16/03	**3.8**	**2.0**	--	<0.50	--	**1.0**	**0.013**	**0.075**	**0.048**	**0.17***	--	
A-28R	11/19/03	**4.9**	<0.25	--	<0.50	--	**0.58**	**0.012**	**0.059**	**0.064**	**0.11***	--	
A-28R	02/25/04	**5.1**	**1.7**	--	<0.50	--	**0.63**	**0.0093**	**0.19**	**0.076**	**0.0080***	--	
A-28R	05/12/04	**6.5**	**2.6**	--	<0.50	--	**0.96**	**0.012**	**0.20**	**0.058**	<0.0050*	--	
A-28R	08/25/04	**5.9**	**0.88**	--	<0.50	--	**2.1**	**0.018**	**0.050**	**0.053**	**0.043***	--	
A-28R	12/14/04	**7.6**	**3.0**	--	<0.50	--	**1.4**	**0.015**	**0.073**	**0.062**	**0.025***	--	
A-28R	03/10/05	**10**	**0.76**	--	<0.50	--	**1.9**	**0.019**	**0.077**	**0.064**	**0.0078***	--	
A-28R	06/07/05	**6.4**	**1.2**	--	<0.50	--	**2.1**	**0.015**	**0.069**	**0.048**	**0.0068***	--	
A-28R	09/20/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
A-28R	12/13/05	**5.4**	<0.25	--	<0.50	--	**0.93**	**0.011**	**0.033**	**0.036**	**0.012***	--	
A-28R	03/15/06	**4.6**	<0.25	--	<0.50	--	**0.80**	**0.012**	**0.11**	**0.035**	<0.0050*	--	

Table 2

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Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-28R	06/08/06	**4.2**	**0.49**	--	**0.73**	--	**0.87**	**0.013**	**0.070**	**0.035**	**0.019***	--	
A-28R	09/12/06	**5.2**	<0.25	--	<0.50	--	**1.0**	**0.015**	**0.048**	**0.036**	**0.016***	--	
A-28R	12/12/06	**4.0**	**0.57**	--	<0.50	--	**0.30**	**0.0095**	**0.027**	**0.028**	<0.0050*	--	
A-28R	03/27/07	**5.5**	**--**	--	**--**	--	**0.71**	**0.014**	**0.062**	**0.022**	**--**	--	
A-28R	06/19/07	**5.3**	**--**	--	**--**	--	**0.59**	**0.018**	**0.058**	**0.041**	<0.0050	--	
A-28R	09/24/07	**3.9**	**--**	--	**--**	--	**0.53**	**0.015**	**0.041**	**0.035**	**--**	--	
A-28R	12/11/07	**2.1**	**--**	--	**--**	--	**0.088**	**0.0044**	**0.013**	**0.015**	**--**	--	
A-28R	03/04/08	**3.6**	**--**	--	**--**	--	**0.27**	**0.0087**	**0.044**	**0.022**	**--**	--	
A-28R	06/04/08	**2.2**	**--**	--	**--**	--	**0.095**	**0.0049**	**0.0060**	**0.012**	<0.0050	--	
A-28R	12/04/08	**1.4**	**--**	--	**--**	--	**0.026**	**0.0022**	**0.011**	**0.0075**	**--**	--	
A-28R	03/04/09	**1.4**	**--**	--	**--**	--	**0.12**	**0.0060**	**0.057**	**0.029**	**--**	--	
A-28R	06/02/09	**2.1**	**--**	--	**--**	--	**0.055**	**0.0020**	**0.016**	**0.0069**	<0.0050	--	
A-28R	09/22/09	**2.3**	**--**	--	**--**	--	**0.10**	**0.0026**	**0.038**	**0.016**	**--**	--	
A-28R	11/16/09	**1.7**	**--**	--	**--**	--	**0.080**	**0.0020**	**0.039**	**0.017**	**--**	--	
A-28R	03/09/10	**7.3**	**--**	--	**--**	--	**0.65**	**0.0079**	**0.32**	**0.092**	**--**	--	
A-28R	06/08/10	**2.2**	**--**	--	**--**	--	**0.14**	**0.0018**	**0.045**	**0.013**	<0.0050	--	
A-28R	09/10/10	**2.4**	**--**	--	**--**	--	**0.12**	**0.0020**	**0.041**	**0.011**	**--**	--	
A-28R	11/16/10	**1.8**	**--**	--	**--**	--	**0.077**	**0.0017**	**0.047**	**0.013**	**--**	--	
A-28R	03/02/11	**2.8**	**--**	--	**--**	--	**0.15**	**0.0029**	**0.083**	**0.016**	**--**	--	
A-28R	05/24/11	**3.5**	**--**	--	**--**	--	**0.21**	**0.0029**	**0.091**	**0.015**	<0.0050	--	
A-28R	08/30/11	**3.7**	**--**	--	**--**	--	**0.14**	**0.0026**	**0.061**	**0.011**	**--**	--	
A-28R	12/02/11	**3.6**	**--**	--	**--**	--	**0.074**	**0.0022**	**0.056**	**0.0092**	**--**	--	
A-28R	03/02/12	**2.6**	**--**	--	**--**	--	**0.086**	**0.0022**	**0.075**	**0.012**	**--**	--	
A-28R	05/30/12	**2.7**	**--**	--	**--**	--	**0.065**	**0.0017**	**0.050**	**0.0085**	<0.0050	--	
A-28R	08/25/12	**1.8**	**--**	--	**--**	--	**0.030**	**0.00089**	**0.010**	**0.0031**	**--**	--	
A-28R	11/08/12	**0.81**	**--**	--	**--**	--	**0.015**	<0.0005	**0.0066**	**0.0013**	**--**	--	
A-28R	02/28/13	**2.6**	**--**	--	**--**	--	**0.062**	<0.0025	**0.044**	**0.0059**	**--**	--	
A-28R	04/10/13	**3.2**	**--**	--	**--**	--	**0.035**	**0.0013**	**0.03**	**0.0042**	<0.0050	--	
A-28R	07/29/13	**2.5**	**--**	--	**--**	--	**0.043**	**0.0018**	**0.019**	**0.0034**	**--**	--	
A-28R	10/02/13	**1.4**	**--**	--	**--**	--	**0.015**	<0.001	**0.0043**	**0.0026**	**--**	--	
A-28R	01/22/14	**1.4**	**--**	--	**--**	--	**0.17**	**0.0027**	**0.006**	**0.0033**	**--**	--	
A-28R	04/22/14	**2.2**	**--**	--	**--**	--	**0.062**	**0.0022**	**0.016**	**0.0025**	<0.0050	--	
A-28R	07/15/14	**1.7**	**--**	--	**--**	--	**0.043**	**0.0016**	**0.0062**	**0.002**	**--**	--	
A-29R	05/25/11	**5.6**	**--**	--	**--**	--	**2.3**	**0.018**	<0.015	**0.024**	**--**	--	
11	06/24/13	<0.25	**0.30**	--	**--**	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	Baseline monitoring event
11	07/30/13	<0.25	**--**	--	**--**	--	**--**	**--**	**--**	**--**	**--**	--	
11	10/03/13	<0.25	**--**	--	**--**	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
11	01/22/14	**0.75**	**--**	--	**--**	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
11	04/21/14	<0.25	**--**	--	**--**	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
11	07/14/14	<0.25	**--**	--	**--**	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
12	06/24/13	**4.1**	**5.3 K**	--	**--**	--	**0.037**	**0.045**	**0.13**	**0.53**	**--**	--	Baseline monitoring event
12	10/03/13	**2.7**	**--**	--	**--**	--	**0.002**	**0.0057**	**0.043**	**0.18**	**--**	--	
12	01/22/14	**4.2**	**--**	--	**--**	--	**0.0067**	**0.015**	**0.027**	**0.34**	**--**	--	
12	04/21/14	**2.6**	**--**	--	**--**	--	**0.015**	**0.014**	**0.088**	**0.15**	**--**	--	
12	07/14/14	**4.7**	**--**	--	**--**	--	**0.019**	**0.026**	**0.17**	**0.22**	**--**	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-1	02/13/02	<0.25	**2.0**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-1	05/21/02	<0.25	**1.9**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-1	08/28/02	<0.25	**1.0**	--	<0.5	--	**0.0013**	**0.0067**	**0.00052**	**0.0016**	<0.005*	--	
MW-1	11/05/02	<0.25	**0.87**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.021***	--	
MW-1	02/19/03	<0.25	**1.9**	--	<0.5	--	<0.0005	**0.00058**	<0.0005	<0.0005	<0.005*	--	
MW-1	06/10/03	<0.25	**1.1**	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-1	09/16/03	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	11/19/03	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	02/25/04	<0.25	**1.3**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	05/11/04	<0.25	**0.87**	--	<0.50	--	<0.0005	**0.00068**	<0.0005	<0.0005	<0.0050*	--	
MW-1	08/25/04	**0.83**	**0.40**	--	<0.50	--	<0.0005	<0.0005	**0.00065**	<0.0005	<0.0050*	--	
MW-1	12/15/04	<0.25	**0.38**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	03/09/05	<0.25	**0.63**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	06/08/05	<0.25	**0.80**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	09/21/05	<0.25	**0.40**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	12/14/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	03/14/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	06/07/06	<0.25	**0.25**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0052***	--	
MW-1	12/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	06/20/07	<0.25	**0.75**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	06/05/08	<0.25	**0.32**	--	<0.50	--	<0.0005	<0.0005	<0.0005	**0.0013**	<0.0050	--	
MW-1	06/01/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	06/08/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	05/23/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	06/01/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	04/09/13	<0.25	**--**	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	04/23/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	02/13/02	<0.25	**0.71**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-2	05/21/02	<0.25	**0.66**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-2	08/29/02	<0.25	**0.91**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-2	11/05/02	<0.25	**0.73**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-2	02/19/03	<0.25	**0.74**	--	<0.5	--	<0.0005	**0.00062**	<0.0005	<0.0005	**0.028***	--	
MW-2	06/10/03	<0.25	**0.61**	--	<0.25	--	<0.0005	**0.00071**	<0.0005	<0.0005	**0.026*a**	--	
MW-2	09/16/03	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.062***	--	
MW-2	11/19/03	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.021***	--	
MW-2	02/25/04	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.030***	--	
MW-2	05/11/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	08/25/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	12/14/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	03/10/05	<0.25	**0.29**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	06/07/05	<0.25	**0.91**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.036***	--	
MW-2	09/20/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	12/13/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.024***	--	
MW-2	03/15/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-2	06/08/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0063***	--	
MW-2	09/12/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	12/12/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	06/19/07	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	06/04/08	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	06/03/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	06/08/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.063**	--	
MW-2	05/23/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	05/31/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	04/09/13	<0.25	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	04/22/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	02/13/02	<0.25	**1.8**	--	<0.5	--	**0.011**	**0.0015**	**0.0045**	**0.011**	<0.005*	--	
MW-3	05/20/02	**0.38**	**1.9**	--	<0.5	--	**0.052**	**0.0028**	**0.025**	**0.020**	**0.01***	--	
MW-3	08/28/02	**0.62**	**2.5**	--	<0.5	--	**0.11**	**0.0071**	**0.021**	**0.030**	<0.005*	--	
MW-3	11/06/02	**0.63**	**1.1**	--	<0.5	--	**0.14**	**0.0053**	**0.021**	**0.015**	**0.006***	--	
MW-3	02/19/03	<0.25	**1.8**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.014***	--	
MW-3	06/11/03	<0.25	**1.3**	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.019***	--	
MW-3	09/17/03	<0.25	**1.4**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.042***	--	
MW-3	11/20/03	<0.25	**2.4**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0063***	--	
MW-3	02/25/04	<0.25	**1.2**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.025***	--	
MW-3	05/11/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	08/25/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0051***	--	
MW-3	12/15/04	<0.25	**0.33**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.018***	--	
MW-3	03/09/05	<0.25	<0.25	--	<0.50	--	**0.0010**	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	06/08/05	<0.25	<0.25	--	<0.50	--	**0.0011**	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	09/21/05	<0.25	<0.25	--	<0.50	--	**0.00094**	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	12/14/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	03/14/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	06/07/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	12/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	06/20/07	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	06/05/08	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	06/01/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	06/09/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	**0.0011**	**0.0053**	<0.0050	--	
MW-3	05/23/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	05/31/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	04/09/13	<0.25	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	04/22/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-4	02/14/02	**0.78**	**280**	--	<50	--	**0.30**	**0.0072**	**0.0023**	**0.0082**	--	--	
MW-4	05/21/02	**1.5**	**8.6**	--	<0.5	--	**0.43**	**0.023**	**0.034**	**0.13**	--	--	
MW-4	08/28/02	**3.3**	**30**	--	**2.6**	--	**1.1**	**0.016**	**0.016**	**0.024**	--	--	
MW-4	11/05/02	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-4	02/19/03	**3.1**	**31**	--	<0.5	--	**0.056**	**0.0017**	**0.014**	**0.020**	--	--	
MW-4	06/10/03	**0.39**	**12**	--	<0.25	--	**0.031**	**0.0012**	**0.0091**	**0.0096**	--	--	

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Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-4	09/16/03	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-4	11/19/03	**0.25**	**19**	--	<0.50	--	**0.033**	<0.001	**0.0042**	**0.0069**	--	--	
MW-4	02/25/04	**0.36**	**15**	--	<0.50	--	**0.035**	**0.0014**	**0.0056**	**0.0094**	--	--	
MW-4	05/12/04	**0.33**	**7.4**	--	<0.50	--	**0.012**	<0.001	**0.0048**	**0.0058**	--	--	
MW-4	08/26/04	<0.50	**5.1**	--	<0.50	--	**0.014**	<0.0025	**0.0039**	**0.0069**	--	--	
MW-4	12/15/04	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-4	03/09/05	<2.0	**11**	--	<0.50	--	<0.01	<0.01	<0.01	**0.013**	--	--	
MW-4	06/08/05	<1.0	**16**	--	**1.1**	--	<0.005	<0.005	<0.005	<0.005	<0.0050	--	
MW-4	09/21/05	<2.0	**19**	--	**2.1**	--	<0.010	<0.010	<0.010	<0.010	--	--	
MW-4	12/14/05	<0.50	**6.2**	--	**0.81**	--	**0.012**	<0.0025	**0.0032**	**0.0084**	--	--	
MW-4	03/14/06	<0.40	**3.9**	--	**0.69**	--	**0.0063**	<0.0020	**0.0020**	**0.0062**	--	--	
MW-4	06/07/06	<0.50	**4.5**	--	<0.50	--	**0.0037**	<0.0025	<0.0025	<0.0025	--	--	
MW-4	09/13/06	<0.50	**2.7**	--	<0.50	--	**0.0034**	<0.0025	<0.0025	**0.0029**	--	--	
MW-4	12/13/06	<0.25	**3.7**	--	**0.62**	--	**0.0012**	<0.0005	<0.0005	**0.0023**	--	--	
MW-4	06/20/07	<0.25	--	--	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-4	06/05/08	<0.25	**1.2**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-4	06/01/09	<0.25	**2.1**	--	**0.61**	--	<0.0005	<0.0005	<0.0005	**0.00080**	--	--	
MW-4	06/08/10	<0.25	**0.86**	--	<0.50	--	<0.0005	**0.00057**	<0.0005	**0.0018**	--	--	
MW-4	05/23/11	<0.25	**1.6**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-4	06/01/12	<0.50	**2.0**	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-4	04/09/13	<0.50 O	--	0.92	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-4	04/23/14	<0.25	**5.3**	1.7	**0.90**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-5	02/13/02	<0.25	<0.25	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-5	05/21/02	<0.25	<0.5	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.01***	--	
MW-5	08/29/02	<0.25	**1.2**	--	<0.5	--	<0.0005	**0.0018**	<0.0005	**0.00063**	<0.005*	--	
MW-5	11/05/02	<0.25	**1.6**	--	<0.5	--	**0.0055**	**0.0016**	<0.0005	**0.00056**	<0.005*	--	
MW-5	02/20/03	<0.25	<0.25	--	<0.5	--	<0.0005	**0.00066**	<0.0005	<0.0005	<0.005*	--	
MW-5	06/11/03	<0.25	**0.36**	--	<0.25	--	<0.0005	**0.00079**	<0.0005	<0.0005	<0.005*	--	
MW-5	09/16/03	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.011***	--	
MW-5	11/20/03	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0086***	--	
MW-5	02/24/04	<0.25	<0.50	--	<0.50	--	<0.0005	**0.0014**	<0.0005	<0.0005	<0.0050*	--	
MW-5	05/11/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-5	08/26/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-5	12/15/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-5	03/09/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.11***	--	
MW-5	06/08/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-5	09/21/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-5	12/14/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-5	03/14/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.012***	--	
MW-5	06/07/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0099***	--	
MW-5	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.013***	--	
MW-5	12/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0088***	--	
MW-5	06/20/07	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-5	06/04/08	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0094**	--	
MW-5	06/02/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	**0.00078**	<0.0050	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-5	06/08/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-5	05/24/11	<0.25	<0.25	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-5	05/31/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-5	04/09/13	<0.25	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0073**	--	
MW-5	04/21/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	02/13/02	**0.97**	**1.1**	--	<0.5	--	**0.014**	**0.00070**	<0.0005	**0.00065**	<0.005*	--	
MW-6	05/22/02	**1.1**	**2.5**	--	<0.5	--	**0.035**	**0.0012**	**0.0024**	**0.00072**	<0.005*	--	
MW-6	08/29/02	**0.58**	**6.4**	--	<0.5	--	**0.0014**	<0.001	<0.001	<0.001	<0.005*	--	
MW-6	11/05/02	**0.59**	**7.3**	--	<0.5	--	**0.064**	<0.001	<0.001	**0.0016**	**0.02***	--	
MW-6	02/19/03	**0.54**	**1.7**	--	<0.5	--	**0.0062**	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-6	06/10/03	**0.70**	**1.9**	--	<0.25	--	**0.025**	**0.0011**	**0.00052**	**0.00051**	<0.005*	--	
MW-6	09/16/03	**0.68**	<0.50	--	<0.50	--	<0.0005	<0.0005	**0.00053**	<0.0005	**0.019***	--	
MW-6	11/19/03	**0.44**	**1.6**	--	<0.50	--	**0.0095**	**0.00067**	<0.0005	**0.00051**	<0.0050*	--	
MW-6	02/25/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-6	05/11/04	**1.0**	**0.67**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-6	08/25/04	<0.25	**0.50**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-6	12/14/04	**0.82**	**0.81**	--	<0.50	--	**0.0080**	<0.0005	<0.0005	<0.0005	**0.011***	--	
MW-6	03/10/05	**1.0**	**0.42**	--	<0.50	--	**0.0011**	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-6	06/07/05	**0.92**	<0.25	--	<0.50	--	**0.0014**	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-6	09/20/05	**0.91**	<0.25	--	<0.50	--	<0.0005	<0.0005	**0.00062**	<0.0005	<0.0050*	--	
MW-6	12/13/05	**1.2**	**0.38**	--	<0.50	--	**0.0032**	<0.0005	**0.00050**	<0.0005	<0.0050*	--	
MW-6	03/15/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-6	06/08/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-6	09/12/06	**0.71**	<0.25	--	<0.50	--	<0.0005	**0.00055**	<0.0005	<0.0005	<0.0050*	--	
MW-6	12/12/06	<0.25	<0.25	--	<0.50	--	<0.0005	**0.00055**	<0.0005	<0.0005	<0.0050*	--	
MW-6	03/27/07	**0.81**	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	06/19/07	**0.73**	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	09/24/07	**0.55**	--	--	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-6	12/11/07	**0.54**	--	--	--	--	**0.0014**	<0.0005	<0.0005	<0.0005	--	--	
MW-6	03/04/08	**0.25**	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	06/04/08	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	09/08/08	**0.51**	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	12/04/08	**0.43**	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	03/04/09	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	06/02/09	**0.25**	--	--	--	--	<0.0005	<0.0005	<0.0005	**0.0025**	<0.0050	--	
MW-6	09/21/09	**0.33**	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	11/17/09	**0.31**	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	03/09/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	**0.00095**	--	--	
MW-6	06/08/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	09/09/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	11/15/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	03/02/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	05/24/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	08/30/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	12/01/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0010	--	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-6	03/01/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	05/31/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	08/25/12	**0.27**	--	--	--	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	
MW-6	11/08/12	**0.25**	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	02/28/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	04/09/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	07/29/13	**0.30**	--	--	--	--	<0.0005	<0.0005	<0.0005	**0.00059**	--	--	
MW-6	10/02/13	**0.69**	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	01/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	04/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	07/15/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-7	02/14/02	**13**	**7.5**	--	<0.5	--	**0.20**	**0.24**	**0.57**	**1.8**	**0.035***	--	
MW-7	05/21/02	**6.6**	**11**	--	<0.5	--	**0.16**	**0.089**	**0.43**	**0.66**	**0.04***	--	
MW-7	08/29/02	**2.9**	**5.7**	--	<0.5	--	**0.12**	**0.042**	**0.24**	**0.11**	**0.047***	--	
MW-7	11/05/02	**0.90**	**5.9**	--	<0.5	--	**0.021**	**0.0022**	**0.0040**	**0.0066**	**0.041***	--	
MW-7	02/20/03	**9.7**	**11**	--	<0.5	--	**0.12**	**0.13**	**0.33**	**1.4**	**0.11*a**	--	
MW-7	06/11/03	**5.7**	**8.7**	--	<0.25	--	**0.13**	**0.092**	**0.26**	**0.52**	**0.081*a**	--	
MW-7	09/17/03	**1.4**	**12**	--	<0.50	--	**0.078**	**0.031**	**0.15**	**0.089**	**0.11*a**	--	
MW-7	11/20/03	**0.26**	**0.79**	--	<0.50	--	<0.0005	<0.0005	<0.0005	**0.035**	**0.019*a**	--	
MW-7	02/26/04	**15**	**21**	--	<0.50	--	**0.11**	**0.34**	**0.63**	**3.8**	**0.034*a**	--	
MW-7	05/11/04	**6.3**	**11**	--	<0.50	--	**0.059**	**0.15**	**0.31**	**1.3**	**0.0083*a**	--	
MW-7	08/26/04	**7.1**	**20**	--	<0.50	--	**0.054**	**0.22**	**0.34**	**1.7**	**0.067*a**	--	
MW-7	12/15/04	**18**	**4.4**	--	<0.50	--	**0.14**	**0.37**	**0.53**	**3.0**	**0.19*a**	--	
MW-7	03/09/05	**3.5**	**2.1**	--	<0.50	--	**0.045**	**0.034**	**0.090**	**0.27**	**0.079*a**	--	
MW-7	06/08/05	**2.9**	**2.3**	--	<0.50	--	**0.054**	**0.050**	**0.11**	**0.44**	**0.069*a**	--	
MW-7	09/20/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-7	09/21/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-7	12/14/05	**8.8**	**0.59**	--	<0.50	--	**0.16**	**0.19**	**0.31**	**1.5**	**0.042*a**	--	
MW-7	03/14/06	**15**	**0.50**	--	<0.50	--	**0.12**	**0.26**	**0.50**	**3.6**	**0.026***	--	
MW-7	06/07/06	**17**	**0.85**	--	<0.50	--	**0.12**	**0.35**	**0.69**	**4.5**	**0.023***	--	
MW-7	09/13/06	**2.4**	**0.32**	--	<0.50	--	**0.050**	**0.055**	**0.19**	**0.39**	**0.021*a**	--	
MW-7	12/13/06	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-7	03/27/07	**13**	--	--	--	--	**0.091**	**0.22**	**0.60**	**2.5**	--	--	
MW-7	06/20/07	**6.6**	--	--	--	--	**0.027**	**0.060**	**0.19**	**1.1**	**0.030***	--	
MW-7	09/24/07	**6.6**	--	--	--	--	**0.023**	**0.094**	**0.27**	**2.0**	--	--	
MW-7	12/11/07	**27**	--	--	--	--	**0.031**	**0.33**	**0.87**	**6.6**	--	--	
MW-7	03/04/08	**19**	--	--	--	--	**0.032**	**0.19**	**0.66**	**3.8**	--	--	
MW-7	06/04/08	**6.4**	--	--	--	--	<0.01	**0.088**	**0.30**	**0.77**	**0.019*****	--	
MW-7	09/08/08	**15**	--	--	--	--	**0.015**	**0.064**	**0.35**	**2.6**	--	--	
MW-7	12/05/08	**8.7**	--	--	--	--	**0.019**	**0.046**	**0.33**	**1.5**	--	--	
MW-7	03/04/09	**5.7**	--	--	--	--	**0.014**	**0.073**	**0.25**	**1.4**	--	--	
MW-7	06/02/09	**5.5**	--	--	--	--	**0.014**	**0.029**	**0.15**	**0.89**	**0.0072***	--	
MW-7	09/21/09	**6.1**	--	--	--	--	**0.0072**	**0.030**	**0.18**	**1.1**	--	--	
MW-7	11/17/09	**18**	--	--	--	--	<0.020	**0.16**	**0.54**	**4.3**	--	--	
MW-7	03/09/10	**5.8**	--	--	--	--	**0.013**	**0.047**	**0.20**	**0.90**	--	--	

Table 2

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Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-7	06/09/10	**4.9**	--	--	--	--	**0.0075**	**0.058**	**0.25**	**1.2**	**0.0064***	--	
MW-7	09/09/10	**1.9**	<0.25	--	<0.50	--	**0.0036**	**0.0082**	**0.041**	**0.23**	--	--	
MW-7	11/15/10	**8.8**	--	--	--	--	**0.012**	**0.10**	**0.34**	**2.1**	--	--	
MW-7	03/01/11	**4.9**	--	--	--	--	**0.0051**	**0.055**	**0.11**	**0.77**	--	--	
MW-7	05/24/11	**5.0**	--	--	--	--	**0.0062**	**0.050**	**0.14**	**0.66**	**0.0082****	--	
MW-7	08/29/11	**2.3**	--	--	--	--	**0.0022**	**0.0055**	**0.026**	**0.16**	--	--	
MW-7	12/01/11	**5.2**	--	--	--	--	<0.0005	**0.026**	**0.036**	**0.83**	--	--	
MW-7	03/01/12	**6.0**	<0.25	--	<0.50	--	**0.011**	**0.0987**	**0.24**	**0.90**	--	--	
MW-7	05/31/12	**8.8**	--	--	--	--	**0.020**	**0.14**	**0.36**	**1.9**	**0.0063****	--	
MW-7	08/25/12	**1.8**	--	--	--	--	**0.0024**	**0.0062**	**0.030**	**0.160**	--	--	
MW-7	11/08/12	**2.4**	--	--	--	--	**0.0028**	**0.028**	**0.072**	**0.55**	--	--	
MW-7	02/28/13	**1.3**	--	--	--	--	<0.0015	**0.007**	**0.007**	**0.19**	--	--	
MW-7	04/09/13	**8.1**	--	--	--	--	<0.005	**0.07**	**0.25**	**1.4**	**0.0097**	0.0097	
MW-7	04/09/13	**5.7**	--	--	--	--	**0.0071**	**0.072**	**0.24**	**1.2**	--	--	
MW-7	06/21/13	**4.0**	**0.27 K**	--	--	--	**0.0059**	**0.064**	**0.28**	**1.1**	--	--	Baseline monitoring event
MW-7	07/30/13	**7.2**	--	--	--	--	**0.016**	**0.11**	**0.29**	**1.6**	--	--	
MW-7	10/03/13	**2.8**	--	--	--	--	**0.016**	**0.033**	**0.15**	**0.54**	--	--	
MW-7	01/22/14	**2.1**	--	--	--	--	**0.014**	**0.01**	**0.13**	**0.17**	--	--	
MW-7	04/21/14	**1.9**	--	--	--	--	**0.013**	**0.0093**	**0.11**	**0.2**	<0.0050	<0.0050	
MW-7 (DUP)	04/21/14	**2.4**	--	--	--	--	**0.015**	**0.012**	**0.13**	**0.25**	--	--	Duplicate of MW-7
MW-7	07/14/14	**1.5**	--	--	--	--	**0.012**	**0.0012**	**0.073**	**0.021**	--	--	
MW-8	02/14/02	<0.25	**8.1**	--	<5.0	--	<0.0005	**0.00086**	<0.0005	<0.0005	**0.03***	--	
MW-8	08/29/02	<0.25	**7.5**	--	<0.5	--	<0.0005	**0.00082**	<0.0005	<0.0005	**0.017***	--	
MW-8	11/05/02	<0.25	**1.7**	--	**1.2**	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.012***	--	
MW-8	02/20/03	<0.25	**6.6**	--	<0.5	--	<0.0005	**0.00055**	<0.0005	**0.0024**	**0.029***	--	
MW-8	06/11/03	<0.25	**3.8**	--	<0.25	--	**0.0013**	<0.001	<0.001	<0.001	**0.012***	--	
MW-8	09/17/03	<0.25	**3.3**	--	**0.77**	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.030***	--	
MW-8	11/20/03	<0.25	**2.5**	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050*	--	
MW-8	02/26/04	<0.25	**2.7**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.016***	--	
MW-8	05/11/04	<0.25	**1.5**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-8	08/26/04	<0.25	**1.0**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-8	12/15/04	<0.25	**1.5**	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	**0.0071***	--	
MW-8	03/09/05	<0.25	**1.6**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0094***	--	
MW-8	06/08/05	<0.25	**1.8**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.014***	--	
MW-8	09/21/05	<0.25	**0.97**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.011***	--	
MW-8	12/14/05	<0.25	**1.1**	--	**0.58**	--	<0.001	<0.001	<0.001	**0.0013**	**0.0060***	--	
MW-8	03/14/06	<0.25	**0.54**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.011***	--	
MW-8	06/07/06	<0.25	**0.88**	--	**0.61**	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0093***	--	
MW-8	09/13/06	<0.25	**0.35**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.012***	--	
MW-8	12/13/06	<0.25	**0.82**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0060***	--	
MW-8	06/20/07	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.029**	--	
MW-8	06/04/08	<0.25	**0.37**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	**0.064**	--	
MW-8	06/02/09	<0.25	**0.52**	--	<0.50	--	<0.00050	<0.00050	<0.00050	<0.00050	**0.020**	--	
MW-8	06/09/10	<0.25	**0.82**	--	**0.65**	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.013**	--	
MW-8	05/24/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.020**	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-8	05/31/12	<0.25	<0.25	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	**0.032**	--	
MW-8	04/10/13	<0.25	**--**	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.046**	--	
MW-8	04/24/14	<0.25	**0.49**	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.027**	--	
MW-9	06/11/03	**6.0**	**13**	--	<0.50	--	**0.0031**	**0.036**	**0.076**	**0.60**	**0.022***	--	
MW-9	09/17/03	**5.3**	**39**	--	**0.72**	--	**0.026**	**0.027**	**0.090**	**0.45**	**0.0095***	--	
MW-9	11/20/03	**8.5**	**19**	--	<0.50	--	<0.005	**0.018**	**0.14**	**1.1**	**0.0096***	--	
MW-9	02/26/04	**4.1**	**28**	--	<0.50	--	**0.022**	**0.0072**	**0.025**	**0.47**	**0.0083***	--	
MW-9	05/11/04	**4.1**	**5.8**	--	<0.50	--	**0.0023**	**0.0093**	**0.081**	**0.44**	<0.0050*	--	
MW-9	08/26/04	**4.2**	**6.2**	--	<0.50	--	**0.0066**	**0.025**	**0.13**	**0.43**	**0.0099***	--	
MW-9	12/15/04	**5.4**	**7.6**	--	<0.50	--	<0.0025	**0.011**	**0.12**	**0.39**	**0.0094***	--	
MW-9	03/09/05	**4.5**	**3.5**	--	<0.50	--	**0.0037**	**0.0047**	**0.042**	**0.18**	**0.021***	--	
MW-9	06/08/05	**3.2**	**3.9**	--	<0.50	--	**0.0035**	**0.0087**	**0.069**	**0.17**	**0.0076***	--	
MW-9	09/21/05	**2.3**	**2.6**	--	<0.50	--	**0.0070**	**0.0077**	**0.033**	**0.12**	**0.0076***	--	
MW-9	12/14/05	**4.7**	**1.2**	--	<0.50	--	**0.0078**	**0.010**	**0.12**	**0.38**	**0.0095***	--	
MW-9	03/14/06	**2.4**	**1.4**	--	<0.50	--	**0.0024**	**0.0034**	**0.018**	**0.12**	**0.013***	--	
MW-9	06/07/06	<0.25	**1.0**	--	<0.50	--	**0.0011**	**0.023**	**0.049**	**0.21**	**0.021***	--	
MW-9	09/13/06	**1.8**	**0.46**	--	<0.50	--	**0.0044**	**0.016**	**0.063**	**0.064**	**0.010***	--	
MW-9	12/13/06	**2.6**	**3.8**	--	<0.50	--	<0.0025	<0.0025	**0.024**	**0.19**	**0.025***	--	
MW-9	03/27/07	**1.5**	**--**	--	**--**	--	**0.16**	**0.0013**	**0.0051**	**0.026**	**--**	--	
MW-9	06/20/07	**2.0**	**--**	--	**--**	--	**0.066**	**0.015**	**0.051**	**0.12**	**0.017**	--	
MW-9	09/24/07	**1.7**	**--**	--	**--**	--	**0.0036**	**0.0072**	**0.029**	**0.093**	**--**	--	
MW-9	12/11/07	**2.9**	**--**	--	**--**	--	<0.0025	<0.0025	**0.057**	**0.55**	**--**	--	
MW-9	03/04/08	**3.0**	**--**	--	**--**	--	**0.0096**	<0.0015	**0.016**	**0.15**	**--**	--	
MW-9	06/04/08	**2.0**	**--**	--	**--**	--	**0.0019**	**0.0073**	**0.039**	**0.089**	**0.0088**	--	
MW-9	09/08/08	**2.4**	**--**	--	**--**	--	**0.0022**	**0.020**	**0.077**	**0.16**	**--**	--	
MW-9	12/05/08	**0.93**	**--**	--	**--**	--	<0.0015	<0.0015	<0.0015	**0.052**	**--**	--	
MW-9	03/04/09	**0.42**	**--**	--	**--**	--	<0.0010	<0.0010	**0.0040**	**0.031**	**--**	--	
MW-9	06/02/09	**1.2**	**--**	--	**--**	--	<0.00050	<0.00050	**0.0041**	**0.032**	**0.0099**	--	
MW-9	09/22/09	**1.2**	**--**	--	**--**	--	**0.0060**	**0.0018**	**0.0068**	**0.033**	**--**	--	
MW-9	11/17/09	<0.25	**--**	--	**--**	--	<0.0005	**0.00050**	<0.0005	**0.0043**	**--**	--	
MW-9	03/09/10	<0.25	**--**	--	**--**	--	**0.00092**	**0.00050**	**0.00055**	**0.00071**	**--**	--	
MW-9	06/09/10	**0.30**	**--**	--	**--**	--	**0.0014**	<0.0005	**0.00081**	**0.0058**	<0.0050	--	
MW-9	09/09/10	**0.48**	**--**	--	**--**	--	**0.0058**	**0.0014**	**0.0061**	**0.025**	**--**	--	
MW-9	11/15/10	<0.25	**--**	--	**--**	--	<0.0005	<0.0005	<0.0005	**0.00085**	**--**	--	
MW-9	03/01/11	<0.25	**--**	--	**--**	--	**0.014**	<0.0005	<0.0005	**0.00085**	**--**	--	
MW-9	05/24/11	<0.25	**--**	--	**--**	--	**0.0043**	<0.0005	<0.0005	**0.00085**	**0.0093**	--	
MW-9	08/29/11	**0.28**	**--**	--	**--**	--	**0.0067**	<0.0005	**0.00078**	**0.0038**	**--**	--	
MW-9	12/01/11	<0.25	**--**	--	**--**	--	<0.0005	<0.0005	<0.0005	**0.0024**	**--**	--	
MW-9	03/01/12	<0.25	**--**	--	**--**	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-9	05/31/12	<0.25	**--**	--	**--**	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.012**	--	
MW-9	08/25/12	**0.67**	**--**	--	**--**	--	<0.00050	<0.00050	**0.00062**	**0.0057**	**--**	--	
MW-9	11/08/12	<0.25	**--**	--	**--**	--	<0.001	<0.001	<0.001	**0.0029**	**--**	--	
MW-9	02/28/13	<0.25	**--**	--	**--**	--	**0.0012**	<0.0005	<0.0005	<0.0005	**--**	--	
MW-9	04/10/13	<0.25	**--**	--	**--**	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-9	06/24/13	**0.33**	**0.37**	--	**--**	--	**0.014**	<0.0005	<0.0005	**0.0035**	**--**	--	Baseline monitoring event

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Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-9	07/30/13	**0.27**	--	--	--	--	**0.0017**	<0.0005	**0.00071**	**0.006**	--	--	
MW-9	10/03/13	**0.30**	--	--	--	--	**0.0056**	<0.0005	<0.0005	**0.0092**	--	--	
MW-9	01/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	**0.0013**	--	--	
MW-9	04/21/14	<0.25	--	--	--	--	**0.017**	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-9	07/14/14	<0.25	--	--	--	--	**0.01**	<0.0005	<0.0005	**0.00072**	--	--	
MW-12	06/19/01	<0.05	**1.6**	--	<0.5	--	<0.001	<0.001	<0.001	<0.003	<0.004	--	
MW-12	06/20/01	<0.06	**1.7**	--	<0.5	--	<0.001	<0.001	<0.001	<0.003	<0.004	--	
MW-12					Destroyed during construction activities								
MW-12R	02/14/02	<0.25	**1.4**	--	<0.5	--	**0.014**	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-12R	05/21/02	<0.25	**2.5**	--	<0.5	--	**0.080**	**0.0013**	<0.0005	**0.00066**	<0.005*	--	
MW-12R	08/28/02	<0.25	**2.1**	--	<0.5	--	**0.028**	**0.0059**	<0.0005	**0.0015**	<0.005*	--	
MW-12R	11/05/02	<0.25	**1.3**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-12R	02/19/03	**0.26**	**2.5**	--	<0.5	--	**0.19**	**0.0012**	<0.001	<0.001	<0.005*	--	
MW-12R	06/10/03	**0.41**	**1.3**	--	<0.25	--	**0.11**	**0.00055**	<0.0005	<0.0005	<0.005*	--	
MW-12R	09/16/03	<0.25	**0.67**	--	<0.50	--	**0.0021**	<0.0005	<0.0005	<0.0005	**0.013***	--	
MW-12R	11/19/03	**0.42**	<0.25	--	<0.50	--	**0.26**	<0.001	<0.001	<0.001	**0.0078**	--	
MW-12R	02/25/04	**0.26**	**1.8**	--	<0.50	--	**0.099**	**0.00050**	<0.0005	**0.00076**	**0.010***	--	
MW-12R	05/12/04	**0.56**	**0.74**	--	<0.50	--	**0.20**	<0.001	<0.001	<0.001	<0.0050*	--	
MW-12R	08/26/04	**0.35**	**0.50**	--	<0.50	--	**0.089**	<0.001	<0.001	<0.001	<0.0050*	--	
MW-12R	12/15/04	<0.25	**0.50**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-12R	03/09/05	<0.25	**0.39**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-12R	06/08/05	<0.25	**0.39**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-12R	09/21/05	**0.26**	**0.25**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-12R	03/14/06	<0.25	<0.25	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050*	--	
MW-12R	06/07/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-12R	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-12R	12/13/06	<0.25	**0.27**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-12R	12/14/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-12R	06/20/07	<0.25	--	--	--	--	<0.0005	**0.0010**	<0.0005	<0.0005	<0.0050	--	
MW-12R	06/05/08	<0.25	**0.78**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-12R	06/01/09	<0.25	**0.32**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-12R	06/08/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-12R	05/23/11	<0.25	**0.41**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-12R	06/01/12	<0.25	<0.25	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-12R	04/09/13	<0.25	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-12R	04/23/14	<0.25	**0.49**	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13	06/19/01	<0.05	**1.3**	--	<0.5	--	<0.001	<0.001	<0.001	<0.003	<0.004	--	
MW-13					Destroyed during construction activities								
MW-13R	02/14/02	<0.25	**3.2**	--	<0.5	--	**0.056**	<0.0005	<0.0005	**0.00075**	<0.005*	--	
MW-13R	05/21/02	<0.25	**3.5**	--	<0.5	--	**0.0025**	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-13R	08/28/02	<0.25	**2.4**	--	<0.5	--	<0.0005	**0.0019**	<0.0005	**0.00070**	<0.005*	--	
MW-13R	11/05/02	<0.25	**2.0**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-13R	02/19/03	<0.25	**1.7**	--	<0.5	--	**0.00078**	**0.0032**	<0.0005	**0.00083**	<0.005*	--	
MW-13R	06/10/03	<0.25	**0.76**	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-13R	09/16/03	<0.25	**1.4**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0078***	--	
MW-13R	11/19/03	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0066**	--	
MW-13R	02/25/04	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.012***	--	
MW-13R	05/12/04	<0.25	**0.61**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-13R	08/26/04	<0.25	**0.49**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-13R	12/15/04	<0.25	**0.91**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-13R	03/09/05	<0.25	**0.35**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-13R	06/08/05	<0.25	**0.49**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-13R	09/21/05	<0.25	**0.39**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-13R	03/14/06	<0.25	<0.25	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050*	--	
MW-13R	06/07/06	<0.25	<0.25	--	<0.50	--	<0.005	<0.005	<0.005	<0.005	<0.0050*	--	
MW-13R	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-13R	12/13/06	<0.25	**0.33**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0077*	--	
MW-13R	12/14/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-13R	06/20/07	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13R	06/05/08	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13R	06/01/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13R	06/08/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13R	05/23/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13R						Abandoned on 5/25/2012							
MW-14	02/13/02	**2.5**	**37**	--	<5.0	--	**0.010**	**0.0085**	**0.18**	**0.22**	--	--	
MW-14	05/21/02	**2.9**	**23**	--	**1.0**	--	**0.0093**	**0.0057**	**0.18**	**0.15**	--	--	
MW-14	08/29/02	**2.9**	**28**	--	<0.5	--	**0.017**	**0.0073**	**0.21**	**0.14**	--	--	
MW-14	11/05/02	**2.0**	**28**	--	**0.91**	--	**0.060**	**0.0059**	**0.12**	**0.076**	--	--	
MW-14	02/20/03	**3.4**	**18**	--	<0.5	--	**0.056**	**0.0062**	**0.14**	**0.11**	--	--	
MW-14	06/11/03	**3.1**	**28**	--	<0.5	--	**0.059**	**0.0098**	**0.23**	**0.13**	--	--	
MW-14	09/16/03	<1.0	**15**	--	<0.50	--	**0.13**	<0.005	**0.019**	**0.022**	--	--	
MW-14	11/20/03	<2.0	**29**	--	**0.70**	--	**0.12**	<0.01	**0.020**	**0.031**	--	--	
MW-14	02/24/04	**2.4**	**21**	--	<0.50	--	**0.061**	**0.014**	**0.25**	**0.20**	--	--	
MW-14	05/11/04	**2.7**	**27**	--	<0.50	--	**0.053**	**0.0092**	**0.21**	**0.16**	--	--	
MW-14	08/26/04	**2.3**	**11**	--	**0.53**	--	**0.024**	<0.0025	**0.16**	**0.19**	--	--	
MW-14	12/15/04	**1.2**	**9.6**	--	<0.50	--	**0.0084**	<0.005	**0.010**	**0.0055**	--	--	
MW-14	03/09/05	**4.2**	**7.7**	--	<0.50	--	**0.0053**	**0.0094**	**0.18**	**0.099**	--	--	
MW-14	06/08/05	**3.1**	**8.8**	--	<0.50	--	**0.0043**	**0.0069**	**0.17**	**0.11**	--	--	
MW-14	09/21/05	**1.6**	**10**	--	**1.1**	--	**0.012**	**0.0048**	**0.077**	**0.068**	--	--	
MW-14	12/14/05	**3.1**	**2.0**	--	<0.50	--	**0.0059**	**0.0075**	**0.12**	**0.068**	--	--	
MW-14	03/14/06	**0.79**	**2.1**	--	<0.50	--	<0.0025	<0.0025	**0.023**	**0.030**	--	--	
MW-14	06/07/06	**0.84**	**3.0**	--	<0.50	--	<0.0025	<0.0025	**0.061**	**0.033**	--	--	
MW-14	09/13/06	**2.4**	**1.8**	--	<0.50	--	<0.0025	**0.0060**	**0.10**	**0.056**	--	--	
MW-14	12/13/06	**1.1**	**1.4**	--	<0.50	--	<0.0025	<0.0025	**0.044**	**0.029**	--	--	
MW-14	03/27/07	**1.3**	--	--	--	--	**0.0057**	<0.0025	**0.049**	**0.024**	--	--	
MW-14	06/20/07	**1.5**	--	--	--	--	<0.0025	**0.0039**	**0.087**	**0.046**	--	--	
MW-14	09/24/07	**2.5**	--	--	--	--	**0.0024**	**0.0077**	**0.15**	**0.13**	--	--	
MW-14	12/11/07	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-14	03/04/08	**0.43**	--	--	--	--	<0.0015	<0.0015	**0.019**	**0.0073**	--	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-14	06/04/08	<0.30	--	--	--	--	<0.0015	<0.0015	<0.015	<0.015	--	--	
MW-14	09/08/08	**2.5**	--	--	--	--	**0.0024**	**0.0070**	**0.17**	**0.075**	--	--	
MW-14	12/05/08	<0.50	--	--	--	--	<0.0025	<0.0025	**0.0047**	**0.0036**	--	--	
MW-14	03/04/09	<0.25	--	--	--	--	**0.0011**	<0.0010	**0.0011**	**0.0038**	--	--	
MW-14	06/02/09	<0.25	--	--	--	--	<0.0010	<0.0010	<0.0010	**0.0018**	--	--	
MW-14	09/21/09	**0.56**	--	--	--	--	<0.0025	<0.0025	**0.044**	**0.013**	--	--	
MW-14	11/17/09	<0.50	--	--	--	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-14	03/08/10	<0.25	--	--	--	--	**0.0010**	<0.0010	**0.0010**	**0.0021**	--	--	
MW-14	06/08/10	<0.25	--	--	--	--	<0.0005	<0.0005	**0.0011**	**0.0014**	--	--	
MW-14	09/09/10	**0.50**	--	--	--	--	**0.0013**	**0.0018**	**0.031**	**0.036**	--	--	
MW-14	11/15/10	<0.25	--	--	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-14	03/01/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-14	05/24/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-14	08/29/11	**0.41**	--	--	--	--	<0.0010	**0.0011**	**0.019**	**0.026**	--	--	
MW-14	12/01/11	<0.25	--	--	--	--	<0.0010	<0.0010	<0.0010	**0.0032**	--	--	
MW-14	03/01/12	<0.25	--	--	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-14	05/31/12	<0.25	--	--	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-14	08/25/12	<0.25	--	--	--	--	<0.00050	<0.00050	**0.0028**	**0.0017**	--	--	
MW-14	11/08/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	**0.0041**	--	--	
MW-14	02/28/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-14	04/09/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-14	07/30/13	<0.25	--	--	--	--	<0.0005	**0.00058**	**0.011**	**0.0092**	--	--	
MW-14	10/03/13	<0.25	--	--	--	--	<0.001	<0.001	**0.0034**	**0.022**	--	--	
MW-14	01/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-14	04/21/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-14	07/15/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	02/13/02	<0.25	<0.25	--	<0.5	--	**0.0013**	**0.0037**	<0.0005	**0.0011**	--	--	
MW-16	05/21/02	<0.25	<0.5	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	08/29/02	<0.25	<0.5	--	<0.5	--	<0.0005	**0.0022**	<0.0005	**0.00069**	--	--	
MW-16	11/05/02	<0.25	**0.29**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	02/19/03	<0.25	<0.25	--	<0.5	--	<0.0005	**0.0018**	<0.0005	<0.0005	--	--	
MW-16	06/10/03	<0.25	<0.25	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	09/16/03	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	11/19/03	<0.25	<0.25	--	<0.50	--	<0.0005	**0.0013**	<0.0005	**0.00062**	--	--	
MW-16	02/25/04	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	05/11/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	08/26/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	12/15/04	<0.25	<0.25	--	<0.50	--	**0.029**	<0.0005	<0.0005	<0.0005	--	--	
MW-16	03/10/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/07/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	09/20/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	12/13/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	03/15/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/08/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	09/12/06	<0.25	<0.25	--	<0.50	--	<0.0005	**0.00062**	**0.0012**	<0.0005	--	--	

Table 2

Groundwater Analytical Results
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2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-16	12/12/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/19/07	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/04/08	**0.39**	**0.43**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-16	06/03/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/09/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	**0.0012**	--	--	
MW-16	05/23/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	05/31/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	04/09/13	<0.25	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	04/22/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-17	05/23/11	**0.30**	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	02/13/02	**7.6**	**0.77**	--	<0.5	--	**1.8**	**0.067**	**0.29**	**0.34**	--	--	
MW-18	05/21/02	**1.2**	**0.30**	--	<0.5	--	**0.25**	**0.016**	**0.068**	**0.068**	--	--	
MW-18	08/29/02	**1.6**	<0.5	--	<0.5	--	**0.45**	**0.014**	**0.032**	**0.044**	--	--	
MW-18	11/05/02	**1.1**	<0.25	--	<0.5	--	<0.3	**0.010**	**0.011**	**0.031**	--	--	
MW-18	02/19/03	<0.25	<0.25	--	<0.5	--	**0.0035**	**0.0047**	<0.0005	**0.0016**	--	--	
MW-18	06/10/03	<0.25	<0.25	--	<0.25	--	**0.022**	**0.0016**	<0.0005	**0.0040**	--	--	
MW-18	09/16/03	<0.25	<0.50	--	<0.50	--	**0.036**	**0.0019**	<0.0005	**0.0075**	--	--	
MW-18	11/19/03	<0.25	<0.25	--	<0.50	--	**0.0042**	<0.0005	<0.0005	**0.0015**	--	--	
MW-18	02/25/04	**0.58**	<0.25	--	<0.50	--	**0.11**	**0.0048**	**0.00087**	**0.026**	--	--	
MW-18	05/11/04	**1.1**	<0.25	--	<0.50	--	**0.25**	**0.0073**	**0.0016**	**0.037**	--	--	
MW-18	08/26/04	<0.25	<0.25	--	<0.50	--	**0.0030**	<0.0005	<0.0005	<0.0005	--	--	
MW-18	12/15/04	**0.84**	<0.25	--	<0.50	--	**0.14**	**0.0060**	**0.0019**	**0.029**	--	--	
MW-18	03/10/05	**0.84**	<0.25	--	<0.50	--	**0.25**	**0.0049**	**0.0020**	**0.021**	--	--	
MW-18	06/07/05	**0.68**	<0.25	--	<0.50	--	**0.17**	**0.0039**	**0.0019**	**0.0098**	--	--	
MW-18	09/20/05	**4.0**	<0.25	--	<0.50	--	**0.74**	**0.021**	**0.0091**	**0.090**	--	--	
MW-18	12/13/05	**2.3**	<0.25	--	<0.50	--	**0.45**	**0.015**	**0.0067**	**0.033**	--	--	
MW-18	03/15/06	**4.9**	<0.25	--	<0.50	--	**1.2**	**0.035**	**0.025**	**0.12**	--	--	
MW-18	06/08/06	**1.2**	<0.25	--	<0.50	--	**0.15**	**0.011**	**0.011**	**0.034**	--	--	
MW-18	09/12/06	**0.35**	<0.25	--	<0.50	--	**0.023**	**0.0021**	**0.0022**	**0.0047**	--	--	
MW-18	12/12/06	**0.28**	<0.25	--	<0.50	--	**0.023**	**0.0018**	**0.0019**	**0.0060**	--	--	
MW-18	03/27/07	**0.78**	--	--	--	--	**0.022**	**0.0029**	**0.0051**	**0.012**	--	--	
MW-18	06/19/07	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	09/24/07	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	12/11/07	<0.25	--	--	--	--	**0.011**	**0.00075**	<0.0005	**0.0032**	--	--	
MW-18	03/04/08	**0.29**	--	--	--	--	**0.0090**	**0.0016**	**0.00050**	**0.00088**	--	--	
MW-18	06/04/08	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	09/08/08	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	12/04/08	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	03/04/09	<0.25	--	--	--	--	**0.00080**	<0.0005	<0.0005	<0.0005	--	--	
MW-18	06/03/09	<0.25	--	--	--	--	**0.00061**	<0.0005	<0.0005	<0.0005	--	--	
MW-18	09/22/09	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	11/17/09	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	03/09/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	**0.0011**	--	--	
MW-18	06/08/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	09/10/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-18	11/16/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	03/02/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	05/23/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	08/30/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	12/02/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0010	--	--	
MW-18	03/02/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	05/31/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	11/08/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	02/28/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	04/09/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	07/29/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	10/02/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	01/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	04/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	07/15/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-19	02/13/02	**29**	**6.8**	--	<2.5	--	**0.057**	**0.73**	**0.58**	**6.5**	--	--	
MW-19	05/21/02	**30**	**7.7**	--	<0.5	--	**0.049**	**0.65**	**0.53**	**6.5**	--	--	
MW-19	08/29/02	**13**	**11**	--	<0.5	--	**0.14**	**0.29**	**0.20**	**2.1**	--	--	
MW-19	11/05/02	**8.2**	**3.0**	--	<0.5	--	**0.21**	**0.37**	**0.16**	**1.7**	--	--	
MW-19	02/20/03	**38**	**19**	--	<0.5	--	**0.091**	**1.2**	**0.80**	**8.0**	--	--	
MW-19	06/11/03	**32**	**15**	--	<1.0	--	**0.042**	**0.38**	**0.80**	**6.7**	--	--	
MW-19	09/16/03	**4.2**	**12**	--	<0.50	--	**0.19**	**0.043**	**0.19**	**1.1**	--	--	
MW-19	11/20/03	**22**	**10**	--	<0.50	--	**0.11**	**0.67**	**0.75**	**6.1**	--	--	
MW-19	02/24/04	**19**	**14**	--	<0.50	--	<0.015	**0.49**	**0.63**	**4.7**	--	--	
MW-19	05/11/04	**27**	**13**	--	<0.50	--	<0.025	**0.22**	**0.87**	**7.2**	--	--	
MW-19	08/26/04	**22**	**0.72**	--	<0.50	--	**0.042**	**0.26**	**0.64**	**4.6**	--	--	
MW-19	12/15/04	**15**	**7.6**	--	<0.50	--	**0.039**	**0.12**	**0.37**	**2.7**	--	--	
MW-19	03/09/05	**27**	**9.1**	--	<0.50	--	**0.073**	**0.18**	**0.56**	**3.4**	--	--	
MW-19	06/08/05	**17**	**6.3**	--	<0.50	--	**0.071**	**0.17**	**0.61**	**2.8**	--	--	
MW-19	09/20/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-19	12/14/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-19	03/14/06	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-19	06/07/06	**14**	**1.4**	--	<0.50	--	<0.010	**0.043**	**0.29**	**1.4**	--	--	
MW-19	09/13/06	**11**	**0.50**	--	<0.50	--	**0.032**	**0.047**	**0.41**	**1.1**	--	--	
MW-19	12/13/06	**8.0**	**1.4**	--	<0.50	--	**0.016**	**0.052**	**0.30**	**1.4**	--	--	
MW-19	03/27/07	**13**	--	--	--	--	<0.010	**0.047**	**0.35**	**1.8**	--	--	
MW-19	06/20/07	**12**	--	--	--	--	**0.050**	**0.092**	**0.29**	**1.2**	--	--	
MW-19	09/24/07	**10**	--	--	--	--	**0.13**	**0.11**	**0.42**	**1.3**	--	--	
MW-19	12/11/07	**12**	--	--	--	--	**0.11**	**0.14**	**0.40**	**1.9**	--	--	
MW-19	03/04/08	**17**	--	--	--	--	**0.15**	**0.28**	**0.52**	**2.4**	--	--	
MW-19	06/04/08	**11**	--	--	--	--	**0.070**	**0.023**	**0.45**	**1.0**	--	--	
MW-19	09/08/08	**5.3**	--	--	--	--	**0.078**	**0.0063**	**0.12**	**0.29**	--	--	
MW-19	12/05/08	**7.8**	--	--	--	--	**0.071**	**0.047**	**0.38**	**0.73**	--	--	
MW-19	03/04/09	**9.4**	--	--	--	--	**0.076**	**0.13**	**0.43**	**1.4**	--	--	
MW-19	06/02/09	**13**	--	--	--	--	**0.071**	**0.13**	**0.43**	**1.6**	--	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-19	09/21/09	**8.4**	**--**	--	**--**	--	**0.052**	**0.0097**	**0.32**	**0.29**	**--**	--	
MW-19	11/17/09	**7.4**	**--**	--	**--**	--	**0.023**	**0.049**	**0.34**	**1.2**	**--**	--	
MW-19	03/08/10	**10**	**--**	--	**--**	--	**0.017**	**0.11**	**0.46**	**1.8**	**--**	--	
MW-19	06/08/10	**12**	**--**	--	**--**	--	**0.042**	**0.17**	**0.55**	**1.6**	**--**	--	
MW-19	09/09/10	**7.3**	**0.71**	--	<0.50	--	**0.039**	**0.020**	**0.42**	**0.18**	**--**	--	
MW-19	11/15/10	**4.5**	**--**	--	**--**	--	**0.039**	**0.18**	**0.44**	**0.13**	**--**	--	
MW-19	03/01/11	**9.6**	**--**	--	**--**	--	**0.039**	**0.13**	**0.34**	**0.88**	**--**	--	
MW-19	05/24/11	**7.4**	**--**	--	**--**	--	**0.0028**	**0.011**	**0.17**	**0.38**	**--**	--	
MW-19	08/29/11	**7.0**	**--**	--	**--**	--	**0.012**	**0.015**	**0.15**	**0.066**	**--**	--	
MW-19	12/01/11	**7.5**	**--**	--	**--**	--	**0.059**	**0.034**	**0.22**	**0.30**	**--**	--	
MW-19	03/01/12	**6.4**	**--**	--	**--**	--	**0.15**	**0.064**	**0.34**	**0.44**	**--**	--	
MW-19	05/31/12	**8.3**	**--**	--	**--**	--	**0.079**	**0.073**	**0.48**	**0.81**	**--**	--	
MW-19	08/25/12	**5.2**	**--**	--	**--**	--	**0.054**	**0.0076**	**0.270**	**0.089**	**--**	--	
MW-19	11/08/12	**4.7**	**--**	--	**--**	--	**0.042**	**0.0096**	**0.28**	**0.18**	**--**	--	
MW-19	02/28/13	**8.1**	**--**	--	**--**	--	**0.045**	**0.13**	**0.44**	**0.77**	**--**	--	
MW-19	04/09/13	**6.9**	**--**	--	**--**	--	**0.029**	**0.15**	**0.32**	**0.57**	**--**	--	
MW-19	06/21/13	**2.8**	**1.1 K**	--	**--**	--	**0.019**	**0.017**	**0.31**	**0.081**	**--**	--	Baseline monitoring event
MW-19	07/30/13	**4.4**	**--**	--	**--**	--	**0.0086**	**0.0051**	**0.16**	**0.013**	**--**	--	
MW-19	10/03/13	**3.2**	**--**	--	**--**	--	**0.0076**	**0.0023**	**0.046**	**0.002**	**--**	--	
MW-19	01/22/14	**2.2**	**--**	--	**--**	--	**0.021**	**0.00065**	**0.029**	<0.0005	**--**	--	
MW-19	04/21/14	**2.1**	**--**	--	**--**	--	**0.0066**	**0.0039**	**0.16**	**0.0064**	**--**	--	
MW-19	07/15/14	**4.2**	**--**	--	**--**	--	**0.0059**	**0.01**	**0.21**	**0.15**	**--**	--	
MW-19 (DUP)	07/15/14	**4.4**	**--**	--	**--**	--	**0.0052**	**0.0097**	**0.2**	**0.15**	**--**	--	Duplicate of MW-19
MW-20	02/13/02	<0.25	**0.64**	--	<0.5	--	<0.001	<0.001	<0.001	<0.001	**--**	--	
MW-20	05/20/02	<0.25	**1.3**	--	<0.5	--	**0.018**	**0.0012**	**0.0048**	**0.014**	**--**	--	
MW-20	08/29/02	**0.60**	**1.1**	--	<0.5	--	**0.057**	**0.0065**	**0.021**	**0.084**	**--**	--	
MW-20	11/06/02	<0.25	**0.81**	--	<0.5	--	**0.0023**	**0.00053**	<0.0005	<0.0005	**--**	--	
MW-20	02/19/03	<0.25	<0.25	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	06/11/03	<0.25	**0.68**	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	09/17/03	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	11/20/03	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	**0.00072**	**--**	--	
MW-20	02/25/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	05/11/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	08/26/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	12/15/04	<0.25	**0.30**	--	<0.50	--	**0.0013**	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	03/09/05	<0.25	<0.25	--	<0.50	--	**0.00074**	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	06/08/05	<0.25	**0.55**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	09/21/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	12/14/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	03/14/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	06/07/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	12/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	06/20/07	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-20	06/05/08	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-20	06/01/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/09/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	**0.00054**	**0.0028**	--	--	
MW-20	05/23/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	05/31/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	04/09/13	<0.25	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	04/22/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	06/10/03	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	06/11/03	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	09/17/03	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	11/20/03	**0.97**	**19**	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	02/26/04	**2.3**	**35**	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	05/11/04	**1.2**	**29**	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	08/26/04	**4.3**	**33**	--	<0.50	--	<0.001	<0.001	**0.0013**	**0.0014**	--	--	
MW-21	12/15/04	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	03/09/05	**2.4**	**140**	--	<5.0	--	<0.0015	<0.0015	**0.0016**	<0.0015	--	--	
MW-21	06/08/05	**1.8**	**31**	--	**0.50**	--	<0.002	<0.002	**0.0026**	<0.002	--	--	
MW-21	09/21/05	**1.7**	**46**	--	**3.3**	--	<0.0010	<0.0010	**0.0013**	<0.0010	--	--	
MW-21	12/14/05	**1.0**	**6.1**	--	**0.54**	--	<0.002	<0.002	**0.0027**	<0.002	--	--	
MW-21	03/14/06	<0.25	**33**	--	**3.1**	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	06/07/06	**0.77**	**18**	--	**1.2**	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	09/13/06	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	12/13/06	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	03/27/07	<0.50	**9.6**	--	**0.75**	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	06/20/07	<0.50	**8.5**	--	**0.66**	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	09/24/07	**0.36**	**4.3**	--	**0.52**	--	<0.0015	<0.0015	**0.0018**	<0.0015	--	--	
MW-21	12/11/07	<0.25	**34**	--	**2.5**	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	03/04/08	<0.50	**12**	--	**0.92**	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	06/04/08	<0.30	**4.7**	--	<0.50	--	<0.0015	<0.0015	<0.015	<0.0015	--	--	
MW-21	09/08/08	**0.98**	**3.8**	--	<0.50	--	<0.0015	**0.0015**	**0.0049**	**0.0028**	--	--	
MW-21	12/05/08	<1.0	**4.8**	--	<0.50	--	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
MW-21	03/04/09	<0.50	**6.4**	--	**0.89**	--	<0.0025	<0.0025	<0.0025	**0.0034**	--	--	
MW-21	06/02/09	**0.70**	**2.9**	--	**0.68**	--	<0.0010	<0.0010	**0.0016**	<0.0010	--	--	
MW-21	09/22/09	**1.7**	**4.7**	--	<0.50	--	<0.0025	<0.0025	**0.0029**	<0.0025	--	--	
MW-21	11/17/09	<0.25	**0.87**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	03/09/10	<0.25	**1.1**	--	<0.50	--	**0.0014**	<0.0010	<0.0010	<0.0005	--	--	
MW-21	09/10/10	**0.60**	**3.7**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	11/15/10	<0.25	**0.49**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	03/01/11	<0.25	**1.2**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	05/23/11	<0.25	**1.2**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	08/29/11	**0.35**	**3.7**	--	**0.98**	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	12/01/11	<0.25	**1.7**	--	--	--	<0.0010	<0.0010	<0.0010	<0.0020	--	--	
MW-21	03/01/12	<0.25	**0.51**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	05/31/12	<0.25	**6.1**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	08/25/12	**0.56**	**1.8**	--	**0.59**	--	<0.0025 o	<0.0025 o	<0.0025 o	<0.0025 o	--	--	
MW-21	11/08/12	<0.25	--	0.29	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-21	02/28/13	<0.25	--	0.90	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	04/10/13	<0.25	--	0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	07/30/13	**0.32**	**2.9**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	10/03/13	<0.25	--	0.62	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	01/22/14	<0.25	**2.3**	--	**0.77**	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	04/24/14	<0.25	**0.74**	0.28	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	07/14/14	<0.25	**1.4**	0.58	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	02/13/02	**0.96**	**9.2**	--	<0.5	--	**0.012**	**0.0053**	**0.017**	**0.0097**	--	--	
MW-22	05/21/02	**1.1**	**7.7**	--	<0.5	--	**0.16**	**0.049**	**0.023**	**0.030**	--	--	
MW-22	08/29/02	**1.4**	**2.4**	--	<0.5	--	**0.50**	**0.0093**	**0.044**	**0.0066**	--	--	
MW-22	11/05/02	**0.49**	**1.7**	--	<0.5	--	**0.14**	**0.0031**	**0.025**	<0.001	--	--	
MW-22	02/19/03	<0.25	**9.1**	--	<0.5	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	06/10/03	<0.25	**7.4**	--	**0.87a**	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	09/16/03	<0.25	**2.7**	--	<0.50	--	**0.0018**	<0.0005	<0.0005	<0.0005	--	--	
MW-22	11/19/03	<0.50	**8.4**	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-22	02/25/04	<0.25	**6.4**	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	05/11/04	<0.25	**2.0**	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	08/25/04	<0.25	**0.61**	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	12/14/04	<0.25	**1.1**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	03/10/05	<0.25	**2.2**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/07/05	<0.25	**3.0**	--	<0.50	--	**0.0049**	<0.001	<0.001	<0.001	--	--	
MW-22	09/20/05	**0.40**	**2.9**	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	12/13/05	<0.25	**0.71**	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	03/15/06	<0.25	**2.4**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/08/06	<0.25	**0.89**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	09/12/06	<0.25	**0.45**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	12/12/06	<0.25	**1.4**	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	06/19/07	<0.25	**1.1**	--	<0.50	--	**0.0094**	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/04/08	<0.25	**0.77**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/03/09	<0.25	**1.8**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/09/10	<0.25	**1.2**	--	<0.50	--	<0.0005	<0.0005	<0.0005	**0.0011**	--	--	
MW-22	05/23/11	<0.25	**2.7**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-22	05/31/12	<1.0	**2.1**	--	**0.73**	--	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
MW-22	04/09/13	<0.25	--	0.97	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	04/22/14	<0.25	**2.9**	0.38	<0.50	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
MW-23	11/19/03	**5.3**	**1.4**	--	<0.50	--	**0.87**	**0.016**	**0.098**	**0.23**	--	--	
MW-23	02/25/04	**3.3**	**0.85**	--	<0.50	--	**0.91**	**0.011**	**0.046**	**0.030**	**0.0052***	--	
MW-23	05/12/04	**4.2**	**1.3**	--	<0.50	--	**1.1**	**0.013**	**0.046**	**0.048**	<0.0050*	--	
MW-23	08/26/04	**5.3**	**0.72**	--	<0.50	--	**1.1**	**0.023**	**0.20**	**0.17**	**0.014***	--	
MW-23	12/14/04	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-23	03/08/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-23	06/07/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-23	09/20/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-23	12/13/05	**6.3**	<0.25	--	<0.50	--	**1.3**	**0.014**	**0.048**	**0.044**	<0.0050*	--	
MW-23	03/15/06	**7.0**	**0.28**	--	<0.50	--	**1.4**	**0.015**	**0.19**	**0.21**	<0.0050*	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-23	06/08/06	**5.2**	**1.3**	--	<0.50	--	**1.4**	**0.014**	**0.11**	**0.11**	<0.0050*	--	
MW-23	09/12/06	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-23	12/12/06	**8.1**	<0.25	--	<0.50	--	**1.8**	**0.020**	**0.11**	**0.16**	<0.0050*	--	
MW-23	03/27/07	**8.4**	--	--	--	--	**1.8**	**0.019**	**0.16**	**0.16**	--	--	
MW-23	06/19/07	**8.7**	--	--	--	--	**1.8**	**0.021**	**0.23**	**0.23**	<0.0050	--	
MW-23	09/25/07	**6.9**	--	--	--	--	**1.5**	**0.021**	**0.085**	**0.11**	--	--	
MW-23	12/11/07	**9.1**	--	--	--	--	**1.3**	**0.022**	**0.053**	**0.097**	--	--	
MW-23	03/04/08	**7.8**	--	--	--	--	**1.5**	**0.018**	**0.089**	**0.10**	--	--	
MW-23	06/04/08	**19**	--	--	--	--	**2.4**	**0.061**	**0.59**	**3.2**	<0.0050	--	
MW-23	09/08/08	**6.4**	--	--	--	--	**0.79**	**0.014**	**0.070**	**0.038**	--	--	
MW-23	12/04/08	**5.4**	--	--	--	--	**0.52**	**0.0088**	**0.091**	**0.063**	--	--	
MW-23	03/04/09	**4.8**	--	--	--	--	**0.81**	**0.012**	**0.27**	**0.11**	--	--	
MW-23	06/02/09	**5.7**	--	--	--	--	**0.21**	**0.0061**	**0.17**	**0.054**	<0.0050	--	
MW-23	09/21/09	**5.9**	--	--	--	--	**0.64**	**0.013**	**0.26**	**0.025**	--	--	
MW-23	11/16/09	**6.2**	--	--	--	--	**0.80**	**0.017**	**0.45**	**0.036**	--	--	
MW-23	03/08/10	**4.8**	--	--	--	--	**0.25**	**0.0077**	**0.19**	**0.031**	--	--	
MW-23	06/08/10	**5.5**	--	--	--	--	**0.39**	**0.0082**	**0.17**	**0.025**	<0.0050	--	
MW-23	09/10/10	**4.9**	--	--	--	--	**0.21**	**0.0044**	**0.11**	**0.019**	--	--	
MW-23	11/16/10	**4.5**	--	--	--	--	**0.37**	**0.010**	**0.23**	**0.020**	--	--	
MW-23	03/02/11	**5.0**	--	--	--	--	**0.21**	**0.0060**	**0.15**	**0.023**	--	--	
MW-23	05/24/11	**6.0**	--	--	--	--	**0.32**	**0.0053**	**0.16**	**0.027**	<0.0050	--	
MW-23	08/30/11	**6.0**	--	--	--	--	**0.15**	**0.0030**	**0.093**	**0.015**	--	--	
MW-23	12/02/11	**5.3**	--	--	--	--	**0.29**	**0.0076**	**0.13**	**0.017**	--	--	
MW-23	03/02/12	**4.0**	--	--	--	--	**0.12**	**0.0029**	**0.13**	**0.027**	--	--	
MW-23	05/30/12	**4.5**	--	--	--	--	**0.087**	<0.0025	**0.14**	**0.022**	<0.0050	--	
MW-23	08/25/12	**2.6**	--	--	--	--	**0.050**	<0.0025 o	**0.059**	**0.0046**	--	--	
MW-23	11/08/12	**2.3**	--	--	--	--	**0.021**	<0.001	**0.065**	**0.0038**	--	--	
MW-23	02/28/13	**2.6**	--	--	--	--	**0.034**	<0.0025	**0.16**	**0.01**	--	--	
MW-23	04/10/13	**0.54**	--	--	--	--	**0.015**	<0.001	**0.015**	**0.0013**	<0.0050	--	
MW-23	07/29/13	**1.7**	--	--	--	--	**0.0097**	<0.001	**0.025**	**0.0011**	--	--	
MW-23	10/02/13	**0.39**	--	--	--	--	**0.015**	<0.001	**0.0019**	<0.001	--	--	
MW-23	01/21/14	**0.27**	--	--	--	--	**0.011**	<0.001	<0.001	<0.001	--	--	
MW-23	04/23/14	**1.7**	--	--	--	--	**0.039**	<0.001	<0.001	**0.0026**	<0.0050	--	
MW-23	07/15/14	**2.5**	--	--	--	--	**0.11**	**0.002**	**0.063**	**0.0071**	--	--	
MW-24	11/19/03	**34**	**6.4**	--	**0.54**	--	**2.8**	**0.54**	**1.4**	**6.0**	--	--	
MW-24	02/25/04	**26**	**3.0**	--	<0.50	--	**4.3**	**0.085**	**1.0**	**3.3**	<0.0050*	--	
MW-24	05/12/04	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	08/26/04	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	12/14/04	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	03/08/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	06/07/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	09/20/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	12/13/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	12/14/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	03/15/06	**26**	**0.34**	--	<0.50	--	**4.4**	**0.064**	**0.88**	**4.2**	**0.0069**	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-24	06/08/06	**21**	<0.25	--	<0.50	--	**1.5**	**0.039**	**0.86**	**4.9**	**0.0068**	--	
MW-24	09/12/06	**--**	**--**	--	**--**	--	**--**	**--**	**--**	**--**	**--**	--	Not Sampled
MW-24	12/12/06	**20**	**1.1**	--	<0.50	--	**1.5**	**0.037**	**0.69**	**3.2**	**0.0078***	--	
MW-24	03/27/07	**27**	**--**	--	**--**	--	**3.4**	**0.062**	**1.3**	**4.6**	**--**	--	
MW-24	06/19/07	**31**	**--**	--	**--**	--	**3.0**	**0.063**	**1.0**	**5.7**	**0.022**	--	
MW-24	09/25/07	**16**	**--**	--	**--**	--	**2.0**	**0.036**	**0.79**	**2.3**	**--**	--	
MW-24	12/11/07	**40**	**--**	--	**--**	--	**1.5**	**0.066**	**1.8**	**9.2**	**--**	--	
MW-24	03/04/08	**41**	**--**	--	**--**	--	**1.8**	**0.052**	**1.4**	**7.7**	**--**	--	
MW-24	06/04/08	**5.5**	**--**	--	**--**	--	**1.2**	**0.013**	**0.027**	**0.027**	<0.0050	--	
MW-24	09/08/08	**46**	**--**	--	**--**	--	**3.5**	**0.081**	**1.9**	**7.3**	**--**	--	
MW-24	12/05/08	**32**	**--**	--	**--**	--	**2.4**	**0.061**	**1.6**	**4.3**	**--**	--	
MW-24	03/04/09	**26**	**--**	--	**--**	--	**2.3**	**0.056**	**1.5**	**5.3**	**--**	--	
MW-24	06/02/09	**37**	**--**	--	**--**	--	**2.5**	**0.064**	**1.7**	**4.4**	**0.0062**	--	
MW-24	09/21/09	**28**	**--**	--	**--**	--	**1.6**	**0.042**	**1.3**	**4.2**	**--**	--	
MW-24	11/16/09	**20**	**--**	--	**--**	--	**1.1**	**0.027**	**0.94**	**2.7**	**--**	--	
MW-24	03/08/10	**31**	**--**	--	**--**	--	**2.5**	**0.058**	**1.6**	**5.1**	**--**	--	
MW-24	06/08/10	**37**	**--**	--	**--**	--	**3.1**	**0.084**	**2.2**	**7.1**	**0.019**	--	
MW-24	09/10/10	**28**	**--**	--	**--**	--	**2.4**	**0.066**	**1.8**	**4.3**	**--**	--	
MW-24	11/16/10	**26**	**--**	--	**--**	--	**1.3**	**0.051**	**1.5**	**5.8**	**--**	--	
MW-24	03/02/11	**26**	**--**	--	**--**	--	**2.2**	**0.057**	**1.3**	**4.8**	**--**	--	
MW-24	05/24/11	**11**	**--**	--	**--**	--	**1.2**	**0.028**	**0.51**	**1.3**	<0.0050	--	
MW-24	08/30/11	**30**	**--**	--	**--**	--	**2.0**	**0.057**	**1.4**	**4.2**	**--**	--	
MW-24	12/02/11	**18**	**--**	--	**--**	--	**0.37**	**0.016**	**0.42**	**2.56**	**--**	--	
MW-24	03/02/12	**8.7**	**--**	--	**--**	--	**0.53**	**0.014**	**0.25**	**1.1**	**--**	--	
MW-24	05/30/12	**7.3**	**--**	--	**--**	--	**0.39**	**0.013**	**0.30**	**0.88**	<0.0050	--	
MW-24	08/25/12	**11**	**--**	--	**--**	--	**0.560**	<0.020 V	**0.41**	**1.4**	**--**	--	
MW-24 (DUP)	08/25/12	**8.0**	**--**	--	**--**	--	**0.41**	<0.015 V	**0.3**	**1.1**	**--**	--	Duplicate of MW-24
MW-24	11/08/12	**20**	**--**	--	**--**	--	**1.7**	**0.057**	**1.4**	**4.1**	**--**	--	
MW-24	11/08/12	**19**	**--**	--	**--**	--	**1.7**	**0.057**	**1.4**	**4.2**	**--**	--	
MW-24	02/28/13	**6.6**	**--**	--	**--**	--	**0.29**	<0.01	**0.39**	**0.84**	**--**	--	
MW-24	02/28/13	**9.0**	**--**	--	**--**	--	**0.48**	**0.016**	**0.59**	**1.3**	**--**	--	
MW-24	04/10/13	**20**	**--**	--	**--**	--	**1.1**	**0.048**	**0.22**	**3.8**	**--**	--	
MW-24	04/10/13	**23**	**--**	--	**--**	--	**1.2**	**0.061**	**1.7**	**4.1**	**0.010**	--	
MW-24	07/29/13	**27**	**--**	--	**--**	--	**1.1**	**0.059**	**2.1**	**4.7**	**--**	--	
MW-24	10/02/13	**33**	**--**	--	**--**	--	**1.1**	**0.072**	**2.6**	**6.3**	**--**	--	
MW-24 (DUP)	10/02/13	**29**	**--**	--	**--**	--	**1.4**	**0.076**	**2.5**	**5.6**	**--**	--	Duplicate of MW-24
MW-24	01/22/14	**3.1**	**--**	--	**--**	--	**0.088**	**0.0034**	**0.18**	**0.33**	**--**	--	
MW-24 (DUP)	01/22/14	**2.2**	**--**	--	**--**	--	**0.056**	**0.0026**	**0.12**	**0.2**	**--**	--	Duplicate of MW-24
MW-24	04/23/14	**23**	**--**	--	**--**	--	**1**	**0.051**	**1.7**	**3.6**	**0.0085**	--	
MW-24 (DUP)	04/23/14	**24**	**--**	--	**--**	--	**1**	**0.048**	**1.7**	**3.7**	**--**	--	Duplicate of MW-24
MW-24	07/15/14	**24**	**--**	--	**--**	--	**1.1**	**0.055**	**1.7**	**3.7**	**--**	--	
MW-24 (DUP)	07/15/14	**22**	**--**	--	**--**	--	**1.1**	**0.05**	**1.7**	**3.6**	**--**	--	Duplicate of MW-24
MW-25	11/20/03	<0.25	**1.3**	--	<0.50	--	**0.0061**	<0.0005	<0.0005	<0.0005	**--**	--	
MW-25	02/26/04	**0.38**	**8.9**	--	<0.50	--	**0.0011**	<0.0005	**0.0027**	<0.0005	**0.012***	--	
MW-25	05/12/04	<0.25	**1.6**	--	<0.50	--	<0.0005	<0.0005	**0.0034**	<0.0005	<0.0050*	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-25	08/26/04	<0.25	**0.27**	--	<0.50	--	**0.013**	<0.0005	<0.0005	<0.0005	**0.034*a**	--	
MW-25	12/14/04	<0.25	**1.4**	--	<0.50	--	**0.0035**	<0.001	<0.001	<0.001	<0.0050*	--	
MW-25	03/10/05	**0.31**	**3.7**	--	<0.50	--	**0.0014**	<0.0005	**0.00064**	<0.0005	<0.0050*	--	
MW-25	06/07/05	**0.40**	**3.2**	--	<0.50	--	<0.001	<0.001	**0.0014**	<0.001	<0.0050*	--	
MW-25	09/20/05	**0.30**	**1.4**	--	<0.50	--	**0.0016**	<0.0005	<0.0005	<0.0005	**0.059*a**	--	
MW-25	12/13/05	<0.25	**1.2**	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050*	--	
MW-25	03/15/06	<0.25	**1.0**	--	<0.50	--	**0.0019**	<0.001	<0.001	<0.001	<0.0050*	--	
MW-25	06/08/06	<0.25	**1.4**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-25	09/12/06	<0.25	**0.31**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-25	12/12/06	<0.25	**0.86**	--	<0.50	--	**0.0052**	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-25	06/19/07	<0.50	**1.6**	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	--	
MW-25	06/04/08	<0.25	**0.26**	--	<0.50	--	**0.0020**	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-25	06/03/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-25	06/09/10	<0.25	**0.32**	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050	--	
MW-25	05/25/11	<0.50	**1.4**	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	--	
MW-25	06/01/12	<0.25	<0.25	--	<0.50	--	**0.0011**	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-25	04/10/13	<0.25	**--**	<0.25	<0.50	--	**0.0013**	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-25	04/23/14	<0.25	**0.65**	0.25	<0.50	<0.50	**0.0014**	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-02	12/20/00	**0.078**	<0.25	--	<0.5	--	**0.0010**	<0.001	<0.001	<0.003	**0.015****	--	
SH-02					Destroyed during construction activities								
SH-02R	02/13/02	<0.25	**0.56**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
SH-02R	05/21/02	<0.25	**2.4**	--	<0.5	--	**0.037**	<0.0005	<0.0005	<0.0005	**0.005***	--	
SH-02R	08/28/02	<0.25	**4.3**	--	<0.5	--	**0.087**	**0.0038**	**0.00061**	**0.0023**	**0.006***	--	
SH-02R	11/05/02	<0.25	**1.1**	--	<0.5	--	**0.016**	<0.0005	<0.0005	<0.0005	**0.005***	--	
SH-02R	02/19/03	<0.25	<0.5	--	<0.5	--	<0.0005	**0.00086**	<0.0005	<0.0005	<0.005*	--	
SH-02R	06/10/03	<0.25	**0.97**	--	<0.25	--	<0.0005	**0.00051**	<0.0005	<0.0005	**0.0059***	--	
SH-02R	09/16/03	<0.25	**3.0**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.010***	--	
SH-02R	11/19/03	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	02/25/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	05/12/04	<0.25	**0.74**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	08/26/04	<0.25	**0.58**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	12/15/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	03/09/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	06/08/05	<0.25	**0.31**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	09/21/05	<0.25	**0.58**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	12/14/05	<0.25	**0.30**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0078***	--	
SH-02R	03/14/06	<0.25	**0.30**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0072***	--	
SH-02R	06/07/06	<0.25	**0.59**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050*	--	
SH-02R	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050*	--	
SH-02R	12/13/06	<0.25	**0.49**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	06/20/07	<0.25	**0.77**	--	<0.50	--	<0.0010	<0.0010	<0.0010	**0.0016**	<0.0050	--	
SH-02R	06/05/08	<0.25	**0.28**	--	<0.50	--	<0.0005	<0.0005	<0.0005	**0.00073**	<0.0050	--	
SH-02R	06/01/09	<0.25	**0.37**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-02R	06/08/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-02R	05/23/11	<0.25	**0.29**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	

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Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
SH-02R	06/01/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-02R	04/09/13	<0.25	**--**	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-02R	04/23/14	<0.25	**0.28**	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05	12/20/00	<0.05	**1.0**	--	<0.5	--	<0.001	<0.001	<0.003	<0.001	**0.017****	--	
SH-05R	05/21/02	**0.71**	**11**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
SH-05R	08/28/02	**0.77**	**10**	--	<0.5	--	<0.0005	**0.0015**	<0.0005	<0.0005	**0.006***	--	
SH-05R	11/05/02	**1.4**	**7.1**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.008***	--	
SH-05R	02/19/03	**0.80**	**6.8**	--	<0.5	--	<0.001	**0.0016**	<0.001	<0.001	<0.005*	--	
SH-05R	06/10/03	**1.1**	**45**	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.04***	--	
SH-05R	09/16/03	<0.25	**23**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.074***	--	
SH-05R	11/19/03	**0.62**	**19**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.075***	--	
SH-05R	02/25/04	<0.25	**5.3**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-05R	05/12/04	**0.43**	**4.3**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-05R	08/26/04	**0.63**	**3.0**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05R	12/15/04	**0.30**	**10**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0056***	--	
SH-05R	03/09/05	**0.78**	**4.3**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-05R	06/08/05	**0.32**	**4.0**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-05R	09/21/05	**0.61**	**2.8**	--	**1.0**	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-05R	12/14/05	**0.78**	**1.3**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-05R	03/14/06	<0.25	**1.4**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0074***	--	
SH-05R	06/07/06	<0.25	**1.4**	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050*	--	
SH-05R	09/13/06	**0.34**	**0.56**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-05R	12/13/06	<0.50	**1.9**	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050*	--	
SH-05R	06/20/07	**0.59**	**1.8**	--	<0.50	--	<0.0005	**0.00058**	<0.0005	<0.0005	<0.0050	--	
SH-05R	06/05/08	<0.25	**1.7**	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
SH-05R	06/01/09	**0.36**	**0.99**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05R	06/08/10	<0.25	**0.28**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05R	05/23/11	<0.25	**1.4**	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	--	
MW-07R	02/13/02	<0.25	**1.2**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.035***	--	
MW-07R	05/21/02	<0.25	**2.1**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.005***	--	
MW-07R	08/28/02	<0.25	**2.4**	--	<0.5	--	<0.0005	**0.0028**	<0.0005	**0.0012**	**0.006***	--	
MW-07R	11/05/02	<0.25	**3.7**	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-07R	02/19/03	**--**	**--**	--	**--**	--	**--**	**--**	**--**	**--**	**--**	--	Not Sampled
MW-07R	06/10/03	**--**	**--**	--	**--**	--	**--**	**--**	**--**	**--**	**--**	--	Not Sampled
MW-07R	09/16/03	<0.25	**1.9**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.045***	--	
MW-07R	11/19/03	<0.25	**2.1**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.020***	--	
MW-07R	02/25/04	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	05/12/04	<0.25	**0.48**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	08/26/04	<0.25	**0.42**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	
MW-07R	12/15/04	<0.25	**0.85**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0076***	--	
MW-07R	03/09/05	<0.25	**0.54**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	06/08/05	<0.25	**0.46**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	09/21/05	<0.25	**0.70**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	12/14/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	03/14/06	<0.25	**0.25**	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	

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		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-07R	06/07/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	**0.0065**	--	
MW-07R	12/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	06/20/07	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-07R	06/05/08	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-07R	06/01/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-07R	06/08/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-07R	05/23/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-07R	06/01/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-07R	04/09/13	<0.25	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-07R	04/23/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
TMW-B1	10/29/09	**5.7**	<0.25	--	<0.50	--	**0.12**	**0.0070**	**0.058**	**0.15**	--	--	
TMW-B1	05/25/11	**9.1**	--	--	--	--	**0.024**	<0.0050	**0.24**	**0.56**	--	--	
TMW-B1	12/02/11	**6.6**	--	--	--	--	**0.091**	<0.0050	**0.15**	**0.26**	--	--	
TMW-B1	03/01/12	**8.0**	--	--	--	--	**0.079**	<0.0025	**0.28**	**0.55**	--	--	
TMW-B1	11/08/12	**3.7**	--	--	--	--	**0.16**	**0.01**	**0.019**	**0.036**	--	--	
TMW-B1	02/28/13	**14**	--	--	--	--	**0.026**	<0.01	**0.5**	**0.87**	--	--	
TMW-B1	10/02/13	**5.8**	--	--	--	--	**0.039**	<0.005	**0.16**	**0.24**	--	--	
TMW-1	06/21/13	<0.25	<0.25	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	Baseline monitoring event
TMW-1	07/30/13	<0.25	--	--	--	--	--	--	--	--	--	--	
TMW-1	10/03/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
TMW-1	01/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
TMW-1	04/21/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
TMW-1	07/14/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
TMW-2	06/21/13	**0.25**	**0.28**	--	--	--	**0.0075**	**0.00097**	<0.0005	**0.00068**	--	--	Baseline monitoring event
TMW-2	07/30/13	**0.26**	--	--	--	--	--	--	--	--	--	--	
TMW-2	10/03/13	**0.50**	--	--	--	--	**0.013**	**0.00074**	<0.0005	**0.0024**	--	--	
TMW-2	01/22/14	**0.28**	--	--	--	--	**0.011**	<0.0005	<0.0005	<0.0005	--	--	
TMW-2	04/21/14	<0.25	--	--	--	--	<0.001	<0.001	<0.001	<0.001	--	--	
TMW-2	07/14/14	<0.25	--	--	--	--	**0.0028**	<0.0005	<0.0005	<0.0005	--	--	
TMW-3	06/24/13	**0.86**	**0.85**	--	--	--	<0.0005	**0.00052**	<0.0005	**0.00087**	--	--	Baseline monitoring event
TMW-3	07/30/13	**0.98**	--	--	--	--	--	--	--	--	--	--	
TMW-3	10/03/13	**0.92**	--	--	--	--	**0.00057**	**0.0018**	**0.0076**	**0.0072**	--	--	
TMW-3	01/22/14	**0.75**	--	--	--	--	<0.001	**0.0022**	<0.001	<0.001	--	--	
TMW-3	04/24/14	**0.51**	--	--	--	--	<0.0005	**0.0046**	**0.0011**	<0.0005	--	--	
TMW-3	07/14/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
TMW-4	06/24/13	**4.9**	**2.5 Z**	--	--	--	**0.17**	**0.084**	**0.23**	**0.95**	--	--	Baseline monitoring event
TMW-4	07/30/13	**5.1**	--	--	--	--	--	--	--	--	--	--	
TMW-4	10/03/13	**4.7**	--	--	--	--	**0.13**	**0.12**	**0.29**	**1.3**	--	--	
TMW-4	01/22/14	**6.0**	--	--	--	--	**0.21**	**0.07**	**0.4**	**0.99**	--	--	
TMW-4	04/24/14	**4.0**	--	--	--	--	**0.16**	**0.044**	**0.39**	**0.84**	--	--	
TMW-4	07/14/14	**5.6**	--	--	--	--	**0.19**	**0.016**	**0.38**	**0.35**	--	--	
TMW-5	06/21/13	**1.3**	**0.65 K**	--	--	--	**0.1**	**0.0097**	**0.022**	**0.02**	--	--	Baseline monitoring event
TMW-5	07/30/13	**4.3**	--	--	--	--	--	--	--	--	--	--	
TMW-5	10/03/13	**1.9**	--	--	--	--	**0.044**	**0.0063**	**0.0038**	**0.0088**	--	--	

Table 2

Groundwater Analytical Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
TMW-5	01/22/14	**1.9**	**--**	--	**--**	--	**0.0039**	**0.0031**	**0.0012**	**0.0023**	**--**	--	
TMW-5	04/24/14	**1.4**	**--**	--	**--**	--	<0.0015	**0.0026**	**0.0017**	**0.0021**	**--**	--	
TMW-5	07/14/14	**1.4**	**--**	--	**--**	--	**0.01**	**0.0016**	<0.0005	**0.00062**	**--**	--	
TMW-6	06/24/13	**4.9**	**1.8 Z**	--	**--**	--	**0.067**	**0.0099**	**0.15**	**0.55**	**--**	--	Baseline monitoring event
TMW-6	07/30/13	**7.8**	**--**	--	**--**	--	**--**	**--**	**--**	**--**	**--**	--	
TMW-6	10/03/13	**5.4**	**--**	--	**--**	--	**0.028**	**0.01**	**0.18**	**0.42**	**--**	--	
TMW-6	01/22/14	**7.0**	**--**	--	**--**	--	**0.06**	**0.01**	**0.28**	**0.53**	**--**	--	
TMW-6	04/24/14	**5.1**	**--**	--	**--**	--	**0.015**	**0.0036**	**0.19**	**0.37**	**--**	--	
TMW-6	07/14/14	**3.9**	**--**	--	**--**	--	**0.064**	**0.0047**	**0.16**	**0.21**	**--**	--	

Notes:
< = Denotes compound was not detected at designated detection limit.
Bold = Concentration detected above the laboratory reporting limit.
mg/l = Milligrams per liter (parts per million)
-- = Not analyzed for this parameter
* = Also tested for Dissolved Lead (EPA-200.8), results are below detection limit of 0.0050 ppm.
*a = Also tested for Dissolved Lead (EPA-200.8), results are at or above detection limit of 0.0050 ppm.
** = Also tested for Dissolved Lead (EPA-7421), results are below detection limit of 0.004 ppm.
*** = Also tested for Dissolved Lead (EPA-SW6020), results are below detection limit of 0.0050 ppm.
a = Insulating oil range hydrocarbons were reported for MW-22 at concentration of 0.87 ppm.
o = Reporting Limits were increase due to sample foaming.
V = Reporting Limts were increased due to high concentration of target analytes.
SGC = A silica gel wash as performed on the solvent extract before analysis. Silica gell cleanup run for samples with DRO detections above the method reporting limit.
TPH as gasoline - Analysis by Washington Method WTPH-G prior to 5/20/98; analysis by Northwest Method NWTPH-Gx from 5/20/98 through present.
TPH as diesel and oil - Analysis by Washington Method WTPH-D+ extended prior to 5/20/98; analysis by Northwest Method NWTPH-Dx from 5/20/98 through present.
BTEX Compounds - Analysis by EPA Method 8020 prior to 5/20/98; analysis by EPA Method 8260B from 5/20/98 through present.

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-5	03/27/07	0.80	--	--	--	--	--	--	--	
A-5	09/24/07	2.70	--	--	--	--	--	--	--	
A-5	12/11/07	1.46	--	--	--	--	--	--	--	
A-5	03/04/08	0.10	--	--	--	--	--	--	--	
A-5	06/03/08	1.90	--	--	--	--	--	--	--	
A-5	09/08/08	1.13	--	--	--	--	--	--	--	
A-5	12/05/08	0.41	--	--	--	--	--	--	--	
A-5	03/04/09	0.41	--	--	--	--	--	--	--	
A-5	06/02/09	0.61	--	--	--	--	--	--	--	
A-5	09/22/09	0.69	--	--	--	--	--	--	--	
A-5	11/17/09	0.24	--	--	--	--	--	--	--	
A-5	03/08/10	0.61	--	--	--	--	--	--	--	
A-5	06/09/10	0.00	--	--	--	--	--	--	--	
A-5	09/10/10	3.32	--	--	--	--	--	--	--	
A-5	11/16/10	0.30	--	--	--	--	--	--	--	
A-5	03/02/11	0.00	--	--	--	--	--	--	--	
A-5	05/25/11	1.28	--	--	--	--	--	--	--	
A-5	08/30/11	0.58	--	--	--	--	--	--	--	
A-5	12/02/11	1.41	--	--	--	--	--	--	--	
A-5	03/02/12	0.37	--	--	--	--	--	--	--	
A-5	06/01/12	0.00	--	--	--	--	--	--	--	
A-5	10/03/13	0.00	--	--	--	--	--	--	--	
A-5	01/21/14	6.00	--	--	--	--	--	--	--	
A-5	07/15/14	0.37	--	--	--	--	--	--	--	
A-8	06/02/09	0.55	--	--	--	--	--	--	--	
A-8	06/09/10	0.00	--	--	--	--	--	--	--	
A-8	05/25/11	1.32	--	--	--	--	--	--	--	
A-8	06/01/12	0.00	--	--	--	--	--	--	--	
A-10	08/28/02	1.40	**5.7**	--	--	**16**	<0.25	**30.00**	**0.6**	
A-10	11/06/02	2.00	**5.9**	--	--	**15**	<0.25	**10.00**	**0.3**	
A-10	02/20/03	2.70	**1.0**	--	--	**22**	**6.1**	**86**	<0.1	
A-10	06/10/03	1.40	**1.60**	--	--	**17.00**	**0.54**	**63.00**	**0.1**	
A-10	09/17/03	1.70	**3.20**	--	--	**47.00**	<0.25a	**12.00**	**0.6**	
A-10	11/20/03	1.40	**0.10**	--	--	**4.90**	<0.25a	**3.70**	**0.3**	
A-10	02/26/04	1.50	**0.24**	--	--	**5.10**	<0.25b	**61.00**	**0.2**	
A-10	05/12/04	0.60	**--*a**	--	--	**30.00**	<0.25	**10.00**	<0.10	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
A-10	08/25/04	1.65	**0.75**	--	--	**6.20**	<0.25	**57.00**	**0.12**	
A-10	12/14/04	2.50	**0.093**	--	--	<0.050	<0.25	**8.80**	<0.10	
A-10	03/10/05	2.58	**6.60**	--	--	**12.00**	<0.25	**260.00**	<0.10	
A-10	06/07/05	1.51	**1.00**	--	--	**3.40**	<0.25	**480.00**	**16**	
A-10	09/20/05	2.10	**2.40**	--	--	**5.60**	<0.25	**320.00**	**0.23**	
A-10	12/13/05	2.20	**0.067**	--	--	<0.050	**14.00**	**56.00**	<0.10	
A-10	03/15/06	2.20	**2.50**	--	--	**42.00**	<0.25	**60.00**	**0.18**	
A-10	06/08/06	1.00	**1.60**	--	--	**7.80**	<0.25	**4.30**	**0.22**	
A-10	09/12/06	1.60	**1.40**	--	--	**15.00**	<0.25	**140.00**	**0.18**	
A-10	12/12/06	2.00	**0.088**	--	--	**2.00**	<0.25	**7.90**	<0.10	
A-10	06/19/07	2.70	--	--	--	--	--	--	--	
A-10	06/03/08	2.40	--	--	--	--	--	--	--	
A-10	06/02/09	0.45	--	--	--	--	--	--	--	
A-10	06/09/10	0.00	--	--	--	--	--	--	--	
A-10	05/25/11	0.97	--	--	--	--	--	--	--	
A-10	06/01/12	0.00	--	--	--	--	--	--	--	
A-14R	08/28/02	1.50	**0.034**	--	--	**0.7**	**9.5**	**290.00**	<0.1	
A-14R	11/06/02	2.30	**0.054**	--	--	**0.4**	**5.7**	**290.00**	**0.1**	
A-14R	02/20/03	2.90	**0.26**	--	--	<0.2	**2.4**	**300**	<0.1	
A-14R	06/10/03	2.00	**0.21**	--	--	**2.20**	**6.00**	**220.00**	**0.3**	
A-14R	09/17/03	1.90	**2.40**	--	--	**3.40**	**0.86a**	**240.00**	**0.2**	
A-14R	11/20/03	1.80	**0.45**	--	--	**2.40**	**0.63a**	**250.00**	<0.1	
A-14R	02/26/04	1.40	**3.30**	--	--	**0.31**	**0.69b**	**190.00**	**0.1**	
A-14R	05/12/04	2.30	**1.40**	--	--	<0.050	**3.00**	**130.00**	<0.10	
A-14R	08/25/04	3.22	**4.30**	--	--	**0.66**	**0.42**	**200.00**	<0.10	
A-14R	12/14/04	3.00	**3.50**	--	--	**1.00**	<0.25	**230.00**	<0.10	
A-14R	03/10/05	2.15	**1.30**	--	--	**2.40**	<0.25	**290.00**	<0.10	
A-14R	06/07/05	1.00	**0.28**	--	--	**0.16**	**0.36**	**220.00**	<0.2	
A-14R	12/13/05	1.10	**1.60**	--	--	**3.70**	<0.25	**150.00**	<0.10	
A-14R	03/15/06	1.10	**0.82**	--	--	**0.14**	<0.25	**80.00**	<0.10	
A-14R	06/08/06	2.40	**1.50**	--	--	**0.53**	<0.25	**38.00**	<0.10	
A-14R	09/12/06	2.00	**0.19**	--	--	**0.80**	<0.25	**110.00**	<0.10	
A-14R	06/19/07	1.90	--	--	--	--	--	--	--	
A-14R	12/12/07	2.90	**1.2**	--	--	**0.76**	<0.25	**99.00**	<0.10	
A-14R	06/03/08	1.90	--	--	--	--	--	--	--	
A-14R	06/02/09	1.00	--	--	--	--	--	--	--	
A-14R	06/09/10	0.00	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
A-14R	05/25/11	1.05	--	--	--	--	--	--	--	
A-14R	06/01/12	0.00	--	--	--	--	--	--	--	
A-21	08/29/02	2.10	**0.31**	--	--	**33.00**	<0.25	**41.00**	**0.3**	
A-21	11/06/02	1.60	**0.64**	--	--	**32.00**	<0.25	**32.00**	<0.1	
A-21	02/19/03	1.90	**1.60**	--	--	**28.00**	<0.25	**2.90**	**0.1**	
A-21	06/10/03	1.30	**2.80**	--	--	**31.00**	<0.25	**0.30**	**0.2**	
A-21	09/16/03	1.60	**4.10**	--	--	**33.00**	<0.25b	**5.30**	**0.7**	
A-21	11/19/03	1.70	**5.60**	--	--	**26.00**	<0.25b	**16.00**	**0.2**	
A-21	02/25/04	2.10	**2.60**	--	--	**31.00**	<0.25b	**1.20**	**0.4**	
A-21	05/12/04	0.80	**1.80**	--	--	**33.00**	<0.25	**0.79**	<0.10	
A-21	08/25/04	1.44	**5.80**	--	--	**16.00**	<0.25	**2.40**	**0.11**	
A-21	12/14/04	2.72	**11.00**	--	--	**4.60**	<0.25	**0.74**	**0.12**	
A-21	03/10/05	1.50	**8.50**	--	--	**19.00**	<0.25	**0.79**	<0.10	
A-21	06/07/05	1.50	**3.80**	--	--	**3.30**	<0.25	<0.50	**0.7**	
A-21	09/20/05	2.60	**6.10**	--	--	**27.00**	<0.25	<0.50	<0.10	
A-21	12/13/05	2.50	**7.50**	--	--	**30.00**	<0.25	<0.50	<0.10	
A-21	03/15/06	2.50	**3.20**	--	--	**32.00**	<0.25	<0.50	<0.10	
A-21	06/08/06	2.80	**2.20**	--	--	**33.00**	<0.25	<0.50	<0.10	
A-21	09/12/06	2.60	**2.90**	--	--	**31.00**	<0.25	<0.50	<0.10	
A-21	12/12/06	3.10	**3.20**	--	--	**46.00**	<0.25	**130.00**	**0.11**	
A-21	03/27/07	3.80	--	--	--	--	--	--	--	
A-21	06/19/07	2.10	**0.19**	--	--	**24**	<0.25	**120**	**0.13**	
A-21	09/25/07	3.00	--	--	--	--	--	--	--	
A-21	12/11/07	1.70	--	--	--	--	--	--	--	
A-21	03/04/08	0.30	--	--	--	--	--	--	--	
A-21	06/04/08	1.60	**0.11**	--	--	**20.00**	**0.27**	**150.00**	**0.14**	
A-21	09/08/08	1.71	--	--	--	--	--	--	--	
A-21	12/04/08	0.72	--	--	--	--	--	--	--	
A-21	03/04/09	0.37	--	--	--	--	--	--	--	
A-21	06/02/09	0.20	**0.028**	--	--	**8.00**	<0.25	**320.00**	<0.10	
A-21	09/22/09	0.56	--	--	--	--	--	--	--	
A-21	11/17/09	0.39	--	--	--	--	--	--	--	
A-21	03/08/10	0.85	--	--	--	--	--	--	--	
A-21	06/08/10	0.33	**0.015**	--	--	**0.72**	**0.28**	**85.00**	<0.10	
A-21	09/10/10	3.49	--	--	--	--	--	--	--	
A-21	11/16/10	0.33	--	--	--	--	--	--	--	
A-21	03/02/11	1.50	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
A-21	05/24/11	1.54	**0.038**	--	--	**0.19**	**0.50**	**25.00**	**0.10**	
A-21	08/30/11	0.38	--	--	--	--	--	--	--	
A-21	12/02/11	0.70	--	--	--	--	--	--	--	
A-21	03/02/12	0.29	--	--	--	--	--	--	--	
A-21	05/30/12	0.00	<0.010	--	--	**9.60**	<0.25	**940.00**	**0.15**	
A-21	04/10/13	--	<0.010	--	--	--	<0.25	**920**	<0.10	
A-21	10/03/13	0.00	--	--	--	--	--	--	--	
A-21	01/21/14	3.53	--	--	--	--	--	--	--	
A-21	04/23/14	--	**0.013**	--	--	**0.62**	<0.25	**250**	<0.10	
A-21	07/15/14	0.39	--	--	--	--	--	--	--	
A-23R	08/28/02	2.40	**4.10**	--	--	**13.00**	<0.25	**270.00**	**0.20**	
A-23R	11/05/02	2.40	**3.60**	--	--	**11.00**	<0.25	**200.00**	**1.60**	
A-23R	02/19/03	3.00	**6.10**	--	--	**12.00**	<0.25	**120.00**	<0.1	
A-23R	06/10/03	1.80	**1.80**	--	--	**30.00**	<0.25	**300.00**	**0.20**	
A-23R	09/16/03	1.40	**7.60**	--	--	**12.00**	<0.25b	**100.00**	**0.90**	
A-23R	11/19/03	1.50	**8.70**	--	--	**7.80**	<0.25b	**26.00**	**0.80**	
A-23R	02/25/04	1.70	**13.00**	--	--	**14.00**	<0.25b	**17.00**	**0.70**	
A-23R	05/12/04	4.70	**5.30**	--	--	**23.00**	<0.25	**80.00**	<1.0	
A-23R	08/25/04	1.80	**10.00**	--	--	**11.00**	<0.25	**31.00**	**0.34**	
A-23R	12/14/04	2.20	**12.00**	--	--	**9.80**	<0.25	**6.40**	**0.25**	
A-23R	03/10/05	1.10	**7.30**	--	--	**30.00**	<0.25	**220.00**	**0.20**	
A-23R	06/07/05	1.50	**5.60**	--	--	**28.00**	<0.25	**200.00**	**1.90**	
A-23R	09/20/05	1.50	**2.60**	--	--	**34.00**	<0.25	**270.00**	<0.10	
A-23R	12/14/05	0.80	**5.30**	--	--	**25.00**	<0.25	**50.00**	**0.17**	
A-23R	03/15/06	0.80	**13.00**	--	--	**27.00**	<0.25	**21.00**	**0.28**	
A-23R	06/08/06	0.70	**4.00**	--	--	**38.00**	<0.25	**150.00**	**0.19**	
A-23R	09/12/06	1.40	**3.60**	--	--	**33.00**	<0.25	**100.00**	<0.10	
A-23R	12/12/06	2.80	**16.00**	--	--	**24.00**	<0.25	**4.20**	**0.31**	
A-23R	03/27/07	1.10	--	--	--	--	--	--	--	
A-23R	06/19/07	1.40	**3.00**	--	--	**32.00**	<0.25	**180.00**	**0.11**	
A-23R	12/11/07	2.73	--	--	--	--	--	--	--	
A-23R	03/04/08	3.20	--	--	--	--	--	--	--	
A-23R	06/05/08	2.40	**2.60**	--	--	**44.00**	<0.25	**440.00**	<0.10	
A-23R	12/05/08	0.33	--	--	--	--	--	--	--	
A-23R	03/04/09	0.35	--	--	--	--	--	--	--	
A-23R	06/02/09	0.60	**2.10**	--	--	**22.00**	<0.25	**290.00**	<0.10	
A-23R	09/21/09	0.77	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
A-23R	11/16/09	1.29	--	--	--	--	--	--	--	
A-23R	03/08/10	0.86	--	--	--	--	--	--	--	
A-23R	06/08/10	0.89	**1.10**	--	--	**39.00**	<0.25	**450.00**	<0.10	
A-23R	09/09/10	0.54	--	--	--	--	--	--	--	
A-23R	11/16/10	0.96	--	--	--	--	--	--	--	
A-23R	03/01/11	0.00	--	--	--	--	--	--	--	
A-23R	05/24/11	0.59	**1.00**	--	--	**44.00**	<0.25	**450.00**	**0.10**	
A-23R	08/29/11	0.55	--	--	--	--	--	--	--	
A-23R	12/02/11	1.15	--	--	--	--	--	--	--	
A-23R	03/01/12	1.47	--	--	--	--	--	--	--	
A-23R	05/30/12	0.00	<0.010	--	--	**86.00**	<0.25	**470.00**	<0.10	
A-23R	04/08/13	--	<0.010	--	--	**11**	<0.25 *	**1,000**	<0.10	
A-23R	10/02/13	0.00	--	--	--	--	--	--	--	
A-23R	01/21/14	4.28	--	--	--	--	--	--	--	
A-23R	04/22/14	--	**0.018**	--	--	**18**	<0.25	**1,900**	<0.10	
A-23R	07/15/14	0.88	--	--	--	--	--	--	--	
A-27	08/29/02	2.30	**7.50**	--	--	**24.00**	<0.25	**0.29**	**0.20**	
A-27	11/06/02	0.70	**5.20**	--	--	**26.00**	<0.25	<0.25	**0.20**	
A-27	02/19/03	3.20	**6.60**	--	--	**19.00**	<0.25	<0.25	<0.1	
A-27	06/10/03	1.20	**10.00**	--	--	**19.00**	<0.25	**0.77**	**0.10**	
A-27	09/16/03	1.00	**8.60**	--	--	**51.00**	<0.25b	**0.59**	**0.70**	
A-27	11/19/03	1.10	**8.90**	--	--	**19.00**	<0.25b	**0.33**	<0.1	
A-27	02/25/04	1.90	**12.00**	--	--	**27.00**	<0.25b	<0.25	**0.30**	
A-27	05/11/04	0.70	**8.40**	--	--	**25.00**	<0.25	<0.50	<0.10	
A-27	08/25/04	1.68	**12.00**	--	--	**22.00**	<0.25	<0.50	**0.13**	
A-27	12/14/04	1.32	**12.00**	--	--	**10.00**	<0.25	<0.50	**0.12**	
A-27	03/10/05	1.62	**12.00**	--	--	**18.00**	<0.25	**0.78**	<0.10	
A-27	06/07/05	1.00	**7.00**	--	--	**19.00**	<0.25	<0.50	**0.30**	
A-27	09/20/05	3.10	**10.00**	--	--	**29.00**	<0.25	**0.84**	**0.16**	
A-27	12/13/05	2.30	**16.00**	--	--	**24.00**	<0.25	<0.50	<0.10	
A-27	03/15/06	2.30	**15.00**	--	--	**14.00**	<0.25	<0.50	**0.16**	
A-27	06/08/06	1.20	**13.00**	--	--	**25.00**	<0.25	**0.51**	**0.15**	
A-27	09/12/06	1.90	**12.00**	--	--	**19.00**	<0.25	<0.50	**0.23**	
A-27	12/12/06	1.00	**13.00**	--	--	**24.00**	<0.25	<0.50	<0.10	
A-27	03/27/07	1.40	--	--	--	--	--	--	--	
A-27	06/19/07	2.40	**11.00**	--	--	**7.50**	<0.25	<1.0	**0.10**	
A-27	09/24/07	1.50	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
A-27	12/11/07	1.50	--	--	--	--	--	--	--	
A-27	03/04/08	1.80	--	--	--	--	--	--	--	
A-27	06/04/08	2.00	**9.90**	--	--	**10.00**	<0.25	<0.50	**0.13**	
A-27	09/08/08	1.85	--	--	--	--	--	--	--	
A-27	12/05/08	0.39	--	--	--	--	--	--	--	
A-27	03/04/09	0.39	--	--	--	--	--	--	--	
A-27	06/02/09	0.63	**6.5**	--	--	**13**	<0.25	**1.2**	<0.10	
A-27	09/22/09	0.45	--	--	--	--	--	--	--	
A-27	11/16/09	0.46	--	--	--	--	--	--	--	
A-27	03/09/10	1.32	--	--	--	--	--	--	--	
A-27	06/08/10	0.00	**3.90**	--	--	**12.00**	<0.25	**2.10**	<0.10	
A-27	09/09/10	0.47	--	--	--	--	--	<0.50	--	
A-27	11/16/10	0.34	--	--	--	--	--	--	--	
A-27	03/02/11	0.00	--	--	--	--	--	--	--	
A-27	05/24/11	0.27	**3.30**	--	--	**8.80**	<0.25	**2.20**	**0.10**	
A-27	08/30/11	0.36	--	--	--	--	--	--	--	
A-27	12/02/11	0.77	--	--	--	--	--	--	--	
A-27	03/01/12	0.32	--	--	--	--	--	--	--	
A-27	05/30/12	0.00	**2.60**	--	--	**21.00**	<0.25	**1.10**	<0.10	
A-27	04/10/13	--	**3.9**	--	--	**21**	<0.25 *	**3.3**	<0.10	
A-27	06/21/13	--	--	--	--	--	<0.25 *	**2.7**	<0.10	Baseline monitoring event
A-27	07/30/13	--	**6.2**	**16**	**3.6**	--	**16**	<0.50	<0.10	
A-27	10/02/13	0.00	**7.4**	**14**	**3.6**	--	<0.50 *	<0.50	<0.10	
A-27	01/22/14	7.32	--	--	--	--	--	<0.50	<0.10	
A-27	04/22/14	--	**2.9**	--	--	**2.4**	<0.25	**4.2**	<0.10	
A-27	07/15/14	0.36	**5.7**	**18**	**16**	--	--	**0.34 J**	<0.10	
A-28R	08/29/02	3.60	**6.20**	--	--	**45.00**	<0.25	**0.73**	**0.30**	
A-28R	11/06/02	2.20	**5.90**	--	--	**46.00**	<0.25	**0.57**	<0.1	
A-28R	02/19/03	3.00	**6.30**	--	--	**48.00**	<0.25	**0.56**	<0.1	
A-28R	06/10/03	1.20	**6.10**	--	--	**42.00**	<0.25	<0.25	<0.1	
A-28R	09/16/03	0.90	**10b**	--	--	**58.00**	<0.25b	**0.41**	**0.50**	
A-28R	11/19/03	1.20	**9.90**	--	--	**47.00**	<0.25b	**0.25**	<0.1	
A-28R	02/25/04	1.80	**9.60**	--	--	**46.00**	<0.25b	<0.25	**1.40**	
A-28R	05/12/04	1.90	**11.00**	--	--	**47.00**	<0.25	<0.50	<0.10	
A-28R	08/25/04	0.50	**12.00**	--	--	**38.00**	<0.25	**--*b**	**--*b**	
A-28R	12/14/04	1.72	**12.00**	--	--	**22.00**	<0.25	<0.50	**0.12**	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
A-28R	03/10/05	3.32	**14.00**	--	--	**42.00**	<0.25	<0.50	<0.10	
A-28R	06/07/05	1.00	**13.00**	--	--	**35.00**	<0.25	<0.50	**0.70**	
A-28R	12/13/05	0.89	**15.00**	--	--	**28.00**	<0.25	<0.50	**0.13**	
A-28R	03/15/06	0.89	**15.00**	--	--	**45.00**	<0.25	**1.30**	<0.10	
A-28R	06/08/06	0.80	**13.00**	--	--	**34.00**	<0.25	<0.50	--	
A-28R	09/12/06	1.10	**16.00**	--	--	**35.00**	<0.25	<0.50	<0.10	
A-28R	12/12/06	1.70	**13.00**	--	--	**25.00**	<0.25	<0.50	<0.10	
A-28R	03/27/07	3.20	--	--	--	--	--	--	--	
A-28R	06/19/07	3.20	**12.00**	--	--	**32.00**	<0.25	**2.50**	<0.10	
A-28R	09/24/07	2.90	--	--	--	--	--	--	--	
A-28R	12/11/07	2.60	--	--	--	--	--	--	--	
A-28R	03/04/08	0.80	--	--	--	--	--	--	--	
A-28R	06/04/08	2.30	**7.00**	--	--	**18.00**	<0.25	<0.50	<0.10	
A-28R	12/04/08	0.36	--	--	--	--	--	--	--	
A-28R	03/04/09	0.44	--	--	--	--	--	--	--	
A-28R	06/02/09	0.46	**2.30**	--	--	**15.00**	<0.25	**2.80**	**0.18**	
A-28R	09/22/09	0.55	--	--	--	--	--	--	--	
A-28R	11/16/09	0.52	--	--	--	--	--	--	--	
A-28R	03/09/10	0.50	--	--	--	--	--	--	--	
A-28R	06/08/10	0.00	**2.40**	--	--	**31.00**	<0.25	**18.00**	**0.29**	
A-28R	09/10/10	3.81	--	--	--	--	--	--	--	
A-28R	11/16/10	0.79	--	--	--	--	--	--	--	
A-28R	03/02/11	0.00	--	--	--	--	--	--	--	
A-28R	05/24/11	0.00	**3.60**	--	--	**39.00**	<0.25	**1.60**	**0.13**	
A-28R	08/30/11	0.31	--	--	--	--	--	--	--	
A-28R	12/02/11	0.30	--	--	--	--	--	--	--	
A-28R	03/02/12	2.47	--	--	--	--	--	--	--	
A-28R	05/30/12	0.00	**2.00**	--	--	**42.00**	<0.25	<0.50	**0.11**	
A-28R	04/10/13	--	**2.5**	--	--	**37**	<0.25 *	**7.9**	<0.10	
A-28R	10/02/13	0.00	--	--	--	--	--	--	--	
A-28R	01/22/14	5.55	--	--	--	--	--	--	--	
A-28R	04/22/14	--	**4.3**	--	--	**47**	**0.45**	**2.2**	<0.10	
A-28R	07/15/14	0.20	--	--	--	--	--	--	--	
11	06/24/13	--	--	--	--	--	<0.25	**2.5**	<0.10	Baseline monitoring event
11	07/30/13	--	**0.42**	**1.0**	<0.30	--	<0.25	**0.88**	<0.10	
11	10/03/13	0.69	**0.046**	**5.2**	**0.78**	--	**1.2 ***	**560**	<0.10	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
11	01/22/14	9.20	--	--	--	--	--	**120**	<0.10	
11	04/21/14	--	--	--	--	--	**1.1**	**580**	<0.10	
11	07/14/14	1.07	**0.47**	**1.6**	**0.55**	--	--	**200**	<0.10	
12	06/24/13	--	--	--	--	--	<0.25	<0.50	<0.10	Baseline monitoring event
12	10/03/13	0.00	**2.2**	**39**	**35**	--	**1.1 ***	**5,500**	<0.10	
12	01/22/14	3.42	--	--	--	--	--	**3,000**	<0.10	
12	04/21/14	--	--	--	--	--	<0.25	**1,700**	**0.22**	
12	07/14/14	0.20	**11**	**31**	**38**	--	--	**1,100**	<0.10	
MW-1	08/28/02	3.20	**4.00**	--	--	**12.00**	<0.25	**1.20**	**0.20**	
MW-1	11/05/02	1.90	**3.60**	--	--	**85.00**	<0.25	**0.99**	**1.30**	
MW-1	02/19/03	3.60	**4.90**	--	--	**16.00**	<0.25	**11.00**	**0.10**	
MW-1	06/10/03	1.30	**7.60**	--	--	**28.00**	<0.25	**6.40**	<0.1	
MW-1	09/16/03	2.40	**5.60**	--	--	**25.00**	<0.25b	**5.20**	<0.1	
MW-1	11/19/03	1.90	**3.80**	--	--	**15.00**	<0.25b	**0.50**	<0.1	
MW-1	02/25/04	2.20	**2.60**	--	--	**21.00**	<0.25b	**17.00**	**0.20**	
MW-1	05/11/04	1.80	**1.60**	--	--	**27.00**	<0.25	**11.00**	<0.10	
MW-1	08/25/04	2.38	**1.60**	--	--	**18.00**	<0.25	**2.80**	<0.10	
MW-1	12/15/04	3.20	**1.40**	--	--	**4.30**	**0.72**	**26.00**	<0.10	
MW-1	03/09/05	3.40	**1.50**	--	--	**19.00**	<0.25	**9.80**	<0.10	
MW-1	06/08/05	3.00	**0.82**	--	--	**11.00**	<0.25	**15.00**	<0.2	
MW-1	09/21/05	3.50	**0.68**	--	--	**51.00**	<0.25	**52.00**	<0.10	
MW-1	12/14/05	2.20	**1.10**	--	--	**18.00**	<0.25	**21.00**	<0.10	
MW-1	03/14/06	1.10	**0.16**	--	--	**20.00**	<0.25	**21.00**	<0.10	
MW-1	06/07/06	1.80	**0.14**	--	--	**23.00**	<0.25	**86.00**	<0.10	
MW-1	09/13/06	2.20	**2.50**	--	--	**24.00**	<0.25	**15.00**	<0.10	
MW-1	12/13/06	2.60	**0.22**	--	--	**6.60**	**1.00**	**49.00**	<0.10	
MW-1	06/20/07	3.40	--	--	--	--	--	--	--	
MW-1	03/04/08	1.20	--	--	--	--	--	**26.00**	--	
MW-1	06/05/08	2.70	--	--	--	--	<0.25	**41.00**	--	
MW-1	06/02/09	0.68	--	--	--	--	--	--	--	
MW-1	06/08/10	0.00	--	--	--	--	--	--	--	
MW-1	05/24/11	0.12	--	--	--	--	--	--	--	
MW-1	05/31/12	0.00	--	--	--	--	--	--	--	
MW-2	08/29/02	2.10	**0.69**	--	--	**1.60**	<0.25	**9.80**	<0.1	
MW-2	11/05/02	1.90	**1.20**	--	--	**5.10**	<0.25	**9.60**	<0.1	
MW-2	02/19/03	2.10	**0.031**	--	--	**1.60**	<0.25	**55.00**	<0.1	

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Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-2	06/10/03	1.40	**0.059**	--	--	**1.60**	<0.25	**25.00**	**0.30**	
MW-2	09/16/03	1.40	**1.10**	--	--	**12.00**	<0.25b	**21.00**	**0.60**	
MW-2	11/19/03	6.40	**0.13**	--	--	**0.40**	<0.25b	**8.30**	<0.1	
MW-2	02/25/04	4.30	**0.079**	--	--	**0.75**	**0.67b**	**17.00**	**0.20**	
MW-2	05/11/04	2.70	**0.24**	--	--	**0.18**	**0.64**	**25.00**	<0.10	
MW-2	08/25/04	2.02	**0.11**	--	--	**0.063**	<0.25	**21.00**	<0.10	
MW-2	12/14/04	2.72	**0.093**	--	--	<0.050	<0.25	**11.00**	<0.10	
MW-2	03/10/05	1.00	**0.23**	--	--	**0.32**	**0.34**	**31.00**	<0.10	
MW-2	06/07/05	1.00	**0.44**	--	--	**0.059**	**0.26**	**21.00**	<0.2	
MW-2	09/20/05	1.70	**0.033**	--	--	<0.050	<0.25	**25.00**	<0.10	
MW-2	12/13/05	3.00	**0.71**	--	--	**1.60**	<0.25	**4.50**	<0.10	
MW-2	03/15/06	1.80	<0.010	--	--	<0.050	**0.54**	**17.00**	<0.10	
MW-2	06/08/06	1.20	**0.013**	--	--	<0.050	**0.35**	**10.00**	<0.10	
MW-2	09/12/06	1.50	**0.49**	--	--	<0.050	<0.25	**13.00**	<0.10	
MW-2	12/12/06	1.20	**0.018**	--	--	**0.068**	**0.91**	**14.00**	<0.10	
MW-2	06/19/07	1.80	--	--	--	--	--	--	--	
MW-2	03/04/08	3.20	--	--	--	--	--	**19.00**	--	
MW-2	06/04/08	1.90	--	--	--	--	**0.97**	**12.00**	--	
MW-2	06/02/09	4.27	--	--	--	--	--	--	--	
MW-2	06/08/10	1.71	--	--	--	--	--	--	--	
MW-2	05/23/11	3.30	--	--	--	--	--	--	**0.0050**	
MW-2	05/31/12	1.83	--	--	--	--	--	--	**0.0050**	
MW-2	04/09/13	--	--	--	--	--	--	--	<0.10	
MW-2	04/22/14	--	--	--	--	--	--	--	<0.10	
MW-3	08/28/02	2.60	**4.60**	--	--	**11.00**	<0.25	**19.00**	**0.20**	
MW-3	11/06/02	2.90	**0.88**	--	--	**0.80**	<0.25	**9.20**	**0.20**	
MW-3	02/19/03	8.60	**0.017**	--	--	**0.20**	**6.10**	**84.00**	**0.20**	
MW-3	06/11/03	6.54	**0.022**	--	--	**0.40**	**8.50**	**130.00**	**0.20**	
MW-3	09/17/03	6.50	**0.028**	--	--	**0.80**	**8.20**	**160.00**	<0.1	
MW-3	11/20/03	7.80	<0.01	--	--	<0.2	**17.00**	**66.00**	**0.20**	
MW-3	02/25/04	2.80	<0.01	--	--	<0.050	**6.70**	**35.00**	**0.20**	
MW-3	05/11/04	8.40	<0.010	--	--	<0.050	**7.70**	**59.00**	<0.10	
MW-3	08/25/04	1.80	<0.010	--	--	<0.050	**7.00**	**66.00**	<0.10	
MW-3	12/15/04	7.60	**0.059**	--	--	<0.050	**6.50**	**50.00**	<0.10	
MW-3	03/09/05	4.43	**1.80**	--	--	<0.050	**3.50**	**51.00**	<0.10	
MW-3	06/08/05	1.98	**3.30**	--	--	<0.050	**4.20**	**37.00**	<0.2	
MW-3	09/21/05	2.90	**4.30**	--	--	**0.064**	**3.40**	**47.00**	<0.10	

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2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-3	12/14/05	1.80	**0.80**	--	--	<0.050	**1.60**	**72.00**	<0.10	
MW-3	03/14/06	3.10	**0.23**	--	--	<0.050	**7.50**	**22.00**	<0.10	
MW-3	06/07/06	1.80	**0.30**	--	--	<0.050	**4.60**	**21.00**	<0.10	
MW-3	09/13/06	2.60	**2.40**	--	--	<0.050	**0.40**	**30.00**	<0.10	
MW-3	12/13/06	0.80	**0.25**	--	--	**0.064**	**2.80**	**28.00**	<0.10	
MW-3	06/20/07	2.20	--	--	--	--	--	--	--	
MW-3	06/05/08	2.00	--	--	--	--	**3.40**	**15.00**	--	
MW-3	06/02/09	4.84	--	--	--	--	--	--	--	
MW-3	06/09/10	3.24	--	--	--	--	--	--	--	
MW-3	05/23/11	5.29	--	--	--	--	--	--	--	
MW-3	05/31/12	0.34	--	--	--	--	--	--	--	
MW-4	08/28/02	1.00	**5.10**	--	--	**86.00**	<0.25	**2.90**	--**	
MW-4	02/19/03	2.00	**1.80**	--	--	**120.00**	<0.25	**270.00**	--**	
MW-4	06/10/03	0.90	**4.90**	--	--	**36.00**	<0.25	**8.40**	**0.60**	
MW-4	11/19/03	1.40	**1.90**	--	--	**31.00**	**0.25b**	**49.00**	**0.60**	
MW-4	02/25/04	2.20	**1.20**	--	--	**32.00**	<0.25b	**1.00**	**0.30**	
MW-4	05/12/04	0.89	**4.90**	--	--	**37.00**	<0.25	**5.30**	<0.10	
MW-4	08/26/04	2.32	**1.40**	--	--	**26.00**	<0.25	**6.40**	**0.42**	
MW-4	03/09/05	1.37	**1.00**	--	--	**31.00**	<0.25	**110.00**	**0.33**	
MW-4	06/08/05	1.50	**1.60**	--	--	**46.00**	<0.25	**11.00**	**0.50**	
MW-4	09/21/05	1.30	**7.00**	--	--	**54.00**	<0.25	**0.52**	**23.00**	
MW-4	12/14/05	2.40	**6.60**	--	--	**19.00**	<0.25	**33.00**	**0.38**	
MW-4	03/14/06	2.40	**4.20**	--	--	**11.00**	<0.25	**1.90**	**0.53**	
MW-4	06/07/06	3.20	**7.10**	--	--	**8.30**	<0.25	<0.50	**0.54**	
MW-4	09/13/06	2.80	**7.60**	--	--	**15.00**	<0.25	<0.50	**0.85**	
MW-4	12/13/06	2.90	**2.30**	--	--	**8.70**	<0.25	**31.00**	<0.10	
MW-4	06/20/07	1.80	--	--	--	--	--	--	--	
MW-4	06/05/08	2.60	--	--	--	--	--	--	--	
MW-4	06/02/09	0.26	--	--	--	--	--	--	--	
MW-4	06/08/10	0.00	--	--	--	--	--	--	--	
MW-4	05/24/11	0.25	--	--	--	--	--	--	--	
MW-4	06/01/12	0.00	--	--	--	--	--	--	--	
MW-5	08/29/02	1.40	**0.17**	--	--	**0.30**	<0.25	**11.00**	**0.20**	
MW-5	11/05/02	4.10	**6.40**	--	--	**13.00**	**1.10**	**250.00**	**0.30**	
MW-5	02/20/03	2.00	**0.073**	--	--	<0.2	<0.25	**6.20**	<0.1	
MW-5	06/11/03	1.60	**2.50**	--	--	**0.60**	<0.25	**8.20**	**0.10**	
MW-5	09/16/03	1.20	**4.70**	--	--	**3.10**	<0.25b	**5.60**	**0.10**	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-5	11/20/03	4.90	<0.01	--	--	**0.30**	<0.25a	**4.70**	**0.20**	
MW-5	02/24/04	3.10	**0.33**	--	--	**0.062**	<0.25b	**5.80**	**0.10**	
MW-5	05/11/04	1.90	**0.61**	--	--	**1.50**	**0.27**	**3.00**	<0.10	
MW-5	08/26/04	1.22	<0.010	--	--	<0.050	**1.80**	**7.60**	<0.10	
MW-5	12/15/04	12.19	<0.010	--	--	<0.050	**0.27**	**4.30**	<0.10	
MW-5	03/09/05	6.22	**0.020**	--	--	<0.050	<0.25	**15.00**	<0.10	
MW-5	06/08/05	2.50	<0.010	--	--	<0.050	<0.25	**11.00**	<0.2	
MW-5	09/21/05	1.90	**0.080**	--	--	**0.077**	<0.25	**8.90**	<0.10	
MW-5	12/14/05	2.20	<0.010	--	--	<0.050	<0.25	**9.80**	**--*a**	
MW-5	03/14/06	2.20	<0.010	--	--	<0.050	**0.55**	**3.20**	<0.10	
MW-5	06/07/06	2.00	<0.010	--	--	<0.050	**1.10**	**4.50**	<0.10	
MW-5	09/13/06	2.10	**0.34**	--	--	<0.050	<0.25	**6.60**	<0.10	
MW-5	12/13/06	2.30	<0.010	--	--	<0.050	**0.30**	**3.80**	<0.10	
MW-5	06/04/08	2.40	--	--	--	--	--	--	--	
MW-5	06/02/09	4.34	--	--	--	--	--	--	--	
MW-5	06/08/10	1.84	--	--	--	--	--	--	--	
MW-5	05/24/11	5.26	--	--	--	--	--	--	--	
MW-5	05/31/12	2.33	--	--	--	--	--	--	--	
MW-6	08/29/02	1.20	**0.72**	--	--	**4.10**	<0.25	**11.00**	**0.10**	
MW-6	11/05/02	1.70	**1.70**	--	--	**10.00**	<0.25	**5.60**	**0.70**	
MW-6	02/19/03	3.30	**1.20**	--	--	**7.30**	<0.25	**62.00**	**0.10**	
MW-6	06/10/03	2.00	**0.87**	--	--	**5.90**	<0.25	**17.00**	**0.20**	
MW-6	09/16/03	2.30	**1.60**	--	--	**41.00**	<0.25b	**2.90**	**1.00**	
MW-6	11/19/03	5.10	**1.70**	--	--	**5.40**	<0.25b	**19.00**	<0.1	
MW-6	02/25/04	2.40	<0.01	--	--	**0.49**	**2.8b**	**24.00**	<0.1	
MW-6	05/11/04	1.20	**0.39**	--	--	**5.10**	<0.25	**12.00**	<0.10	
MW-6	08/25/04	2.26	**0.59**	--	--	**4.90**	<0.25	**8.70**	**0.18**	
MW-6	12/14/04	1.45	**2.80**	--	--	**2.50**	<0.25	**9.90**	<0.10	
MW-6	03/10/05	0.70	**0.85**	--	--	**1.90**	<0.25	**20.00**	**0.15**	
MW-6	06/07/05	3.80	**0.38**	--	--	**0.86**	**0.56**	**19.00**	**0.20**	
MW-6	09/20/05	0.90	**1.50**	--	--	**2.50**	<0.25	**6.00**	**0.18**	
MW-6	12/13/05	1.00	**1.90**	--	--	**2.60**	<0.25	**10.00**	**0.26**	
MW-6	03/15/06	1.00	**0.057**	--	--	**0.30**	<0.25	**17.00**	<0.10	
MW-6	06/08/06	1.90	**0.22**	--	--	**5.90**	<0.25	**7.30**	**0.39**	
MW-6	09/12/06	1.60	**0.98**	--	--	**2.50**	<0.25	**3.10**	**0.33**	
MW-6	12/12/06	2.00	**0.032**	--	--	**1.60**	**0.91**	**49.00**	<0.10	
MW-6	03/27/07	2.30	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-6	06/19/07	1.40	**0.40**	--	--	**4.40**	<0.25	**15.00**	**0.21**	
MW-6	09/24/07	3.40	--	--	--	--	--	--	--	
MW-6	12/11/07	3.16	--	--	--	--	--	--	--	
MW-6	03/04/08	1.50	--	--	--	--	--	--	--	
MW-6	06/04/08	2.90	**0.38**	--	--	**0.70**	<0.25	**11.00**	**0.13**	
MW-6	09/08/08	0.89	--	--	--	--	--	--	--	
MW-6	12/04/08	0.33	--	--	--	--	--	--	--	
MW-6	03/04/09	0.57	--	--	--	--	--	--	--	
MW-6	06/02/09	1.37	**0.096**	--	--	**0.30**	**3.30**	**24.00**	<0.10	
MW-6	09/21/09	0.28	--	--	--	--	--	--	--	
MW-6	11/17/09	0.46	--	--	--	--	--	--	--	
MW-6	03/09/10	1.33	--	--	--	--	--	--	--	
MW-6	06/08/10	0.080	**0.036**	--	--	**0.22**	**0.41**	**11.00**	<0.10	
MW-6	09/09/10	0.40	--	--	--	--	--	**4.80**	--	
MW-6	11/15/10	0.42	--	--	--	--	--	--	--	
MW-6	03/02/11	1.20	--	--	--	--	--	--	--	
MW-6	05/23/11	1.86	**0.010**	--	--	<0.050	**0.68**	**10.00**	**0.10**	
MW-6	08/30/11	0.32	--	--	--	--	--	--	--	
MW-6	12/02/11	0.90	--	--	--	--	--	--	--	
MW-6	03/01/12	1.69	--	--	--	--	--	--	--	
MW-6	05/31/12	0.00	<0.010	--	--	<0.050	**2.10**	**18.00**	<0.10	
MW-6	04/09/13	--	<0.010	--	--	<0.050	**0.92 ***	**15**	<0.10	
MW-6	10/02/13	10.68	--	--	--	--	--	--	--	
MW-6	01/22/14	8.95	--	--	--	--	--	--	--	
MW-6	04/22/14	--	<0.010	--	--	<0.050	**1.6**	**23**	<0.10	
MW-6	07/15/14	0.51	--	--	--	--	--	--	--	
MW-7	08/29/02	1.40	**14.00**	--	--	**9.80**	<0.25	**20.00**	**0.40**	
MW-7	11/05/02	3.00	**14.00**	--	--	**8.90**	<0.25	**7.00**	**0.50**	
MW-7	02/20/03	2.50	**13.00**	--	--	**13.00**	<0.25	**21.00**	**1.10**	
MW-7	06/11/03	2.00	**17.00**	--	--	**12.00**	<0.25	**1.10**	**0.50**	
MW-7	09/17/03	1.10	**14.00**	--	--	**2.70**	<0.25a	**3.00**	**1.10**	
MW-7	11/20/03	2.40	**0.98**	--	--	**0.90**	**1.3a**	**19.00**	<0.1	
MW-7	02/26/04	6.20	**18.00**	--	--	**27.00**	<0.25b	**59.00**	**0.90**	
MW-7	05/11/04	1.00	**14.00**	--	--	**16.00**	<0.25	**12.00**	**0.15**	
MW-7	08/26/04	3.80	**15.00**	--	--	**13.00**	<0.25	**9.20**	**0.47**	
MW-7	12/15/04	1.30	**10.00**	--	--	**20.00**	**3.20**	**68.00**	**0.19**	
MW-7	03/09/05	1.45	**18.00**	--	--	**9.30**	<0.25	**4.50**	**0.45**	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-7	06/08/05	10.50	**17.00**	--	--	**8.70**	<0.25	**1.40**	**0.40**	
MW-7	12/14/05	1.70	**22.00**	--	--	**19.00**	<0.25	**75.00**	**0.16**	
MW-7	03/14/06	1.70	**18.00**	--	--	**9.70**	<0.25	**19.00**	**0.36**	
MW-7	06/07/06	1.60	**19.00**	--	--	**2.70**	<0.25	**17.00**	**0.43**	
MW-7	09/13/06	2.00	**17.00**	--	--	**1.80**	<0.25	**2.10**	**0.17**	
MW-7	03/27/07	1.90	--	--	--	--	--	--	--	
MW-7	06/20/07	1.00	**23.00**	--	--	**2.90**	<0.25	**8.30**	**0.45**	
MW-7	09/24/07	2.60	--	--	--	--	--	--	--	
MW-7	12/11/07	3.22	--	--	--	--	--	--	--	
MW-7	03/04/08	1.30	--	--	--	--	--	**13.00**	--	
MW-7	06/04/08	1.30	**19.00**	--	--	**0.15**	<0.25	**2.30**	**0.63**	
MW-7	09/08/08	0.73	--	--	--	--	--	--	--	
MW-7	12/05/08	0.40	--	--	--	--	--	--	--	
MW-7	03/04/09	0.70	--	--	--	--	--	--	--	
MW-7	06/02/09	0.37	**25.00**	--	--	**2.80**	<0.25	**21.00**	**0.42**	
MW-7	09/22/09	0.54	--	--	--	--	--	--	--	
MW-7	11/17/09	0.64	--	--	--	--	--	--	--	
MW-7	03/09/10	0.18	--	--	--	--	--	--	--	
MW-7	06/09/10	0.00	**27.00**	--	--	**1.10**	**1.60**	**1.60**	**0.44**	
MW-7	09/09/10	0.25	--	--	--	--	<0.25	**3.60**	--	
MW-7	11/15/10	0.47	--	--	--	--	--	--	--	
MW-7	03/01/11	0.00	--	--	--	--	--	--	--	
MW-7	05/24/11	0.00	**3.50**	--	--	**1.80**	**0.46**	**5.10**	**0.55**	
MW-7	08/29/11	0.44	--	--	--	--	--	--	--	
MW-7	12/01/11	0.42	--	--	--	--	--	--	--	
MW-7	03/01/12	0.25	--	--	--	--	--	--	--	
MW-7	05/31/12	0.00	**14.00**	--	--	**1.50**	<0.25	**2.40**	**0.70**	
MW-7	04/09/13	--	**3.7**	--	--	**3.3**	<0.25 *	**4.7**	**0.054 J**	
MW-7	06/21/13	--	--	--	--	--	<0.25 *	**3.2**	<0.10	Baseline monitoring event
MW-7	07/30/13	--	**20**	**4.6**	<0.30	--	<0.25	**4.1**	<0.10	
MW-7	10/03/13	0.00	**20**	**170**	**140**	--	**0.81 ***	**3,100**	<0.10	
MW-7	01/22/14	5.11	--	--	--	--	--	**2,100**	**0.23**	
MW-7	04/21/14	--	**7.9**	--	--	**15**	**0.29**	**1,200**	**0.18**	
MW-7	07/14/14	1.80	**24**	**3.7**	**5.8**	--	--	**1,000**	<0.10	
MW-8	08/29/02	6.20	**0.90**	--	--	**2.30**	<0.25	**3.70**	**0.20**	
MW-8	11/05/02	2.10	**5.50**	--	--	**3.40**	<0.25	**7.50**	**0.10**	

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Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-8	02/20/03	2.90	**0.56**	--	--	**0.50**	**0.69**	**7.60**	**0.30**	
MW-8	06/11/03	1.56	**18.00**	--	--	**0.30**	<0.25	<0.25	**0.40**	
MW-8	09/17/03	2.50	**11.00**	--	--	**6.10**	<0.25a	**6.70**	**0.40**	
MW-8	11/20/03	1.70	<0.010	--	--	<0.2	**2.4a**	**11.00**	**0.10**	
MW-8	02/26/04	2.30	<0.01	--	--	**0.57**	**1.2b**	**4.40**	**0.20**	
MW-8	05/11/04	3.10	**0.19**	--	--	**0.12**	<0.25	**5.30**	<0.10	
MW-8	08/26/04	3.32	**0.36**	--	--	<0.050	**2.20**	**11.00**	<0.10	
MW-8	12/15/04	2.30	<0.010	--	--	<0.050	**5.80**	**15.00**	<0.10	
MW-8	03/09/05	2.22	<0.010	--	--	<0.050	**1.20**	**7.30**	<0.10	
MW-8	06/08/05	6.50	**0.018**	--	--	<0.050	**2.30**	**7.40**	<0.2	
MW-8	09/21/05	2.10	**4.40**	--	--	**0.51**	<0.25	**11.00**	<0.10	
MW-8	12/14/05	2.50	**4.00**	--	--	<0.050	**2.20**	**11.00**	<0.10	
MW-8	03/14/06	2.50	<0.010	--	--	<0.050	**1.60**	**6.40**	<0.10	
MW-8	06/07/06	1.30	**0.53**	--	--	<0.050	**1.10**	**6.00**	<0.10	
MW-8	09/13/06	1.60	**7.10**	--	--	**0.068**	<0.25	**5.00**	<0.10	
MW-8	12/13/06	3.10	<0.010	--	--	<0.050	**7.30**	**41.00**	<0.10	
MW-8	06/20/07	2.20	--	--	--	--	--	--	--	
MW-8	06/04/08	2.50	--	--	--	--	--	--	--	
MW-8	06/02/09	1.52	--	--	--	--	--	--	--	
MW-8	06/09/10	1.55	--	--	--	--	--	--	--	
MW-8	05/23/11	0.85	--	--	--	--	--	--	--	
MW-8	05/31/12	0.79	--	--	--	--	--	--	--	
MW-9	06/11/03	2.10	**6.60**	--	--	**15.00**	<0.25	**2.00**	**0.70**	
MW-9	09/17/03	2.10	**9.80**	--	--	**19.00**	<0.25a	**1.50**	**0.70**	
MW-9	11/20/03	1.60	**2.20**	--	--	**14.00**	<0.25a	**66.00**	**0.30**	
MW-9	02/26/04	1.10	**15.00**	--	--	**12.00**	<0.25b	**8.10**	**0.80**	
MW-9	05/11/04	0.90	**4.10**	--	--	**0.25**	<0.25	**0.62**	**0.12**	
MW-9	08/26/04	1.80	**8.20**	--	--	**15.00**	<0.25	**1.00**	**0.41**	
MW-9	12/15/04	1.76	**5.30**	--	--	**29.00**	**10.00**	**180.00**	<0.10	
MW-9	03/09/05	4.70	**4.30**	--	--	**7.20**	<0.25	**4.40**	**0.30**	
MW-9	06/08/05	4.50	**6.50**	--	--	**8.40**	<0.25	**6.10**	**0.30**	
MW-9	09/21/05	1.70	**11.00**	--	--	**14.00**	<0.25	**1.90**	**0.21**	
MW-9	12/14/05	3.30	**10.00**	--	--	**9.10**	<0.25	**17.00**	**0.11**	
MW-9	03/14/06	3.30	**12.00**	--	--	**3.40**	<0.25	**1.40**	**0.51**	
MW-9	06/07/06	0.90	**4.60**	--	--	**5.60**	<0.25	**0.94**	**0.13**	
MW-9	09/13/06	1.90	**7.40**	--	--	**7.50**	<0.25	<0.50	<0.10	
MW-9	12/13/06	2.40	**0.72**	--	--	**3.60**	**0.27**	**12.00**	**0.19**	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-9	03/27/07	2.90	--	--	--	--	--	--	--	
MW-9	06/20/07	2.90	**3.50**	--	--	**6.00**	<0.25	<0.50	**0.42**	
MW-9	09/24/07	2.50	--	--	--	--	--	--	--	
MW-9	12/11/07	1.76	--	--	--	--	--	--	--	
MW-9	03/04/08	1.50	--	--	--	--	--	--	--	
MW-9	06/04/08	1.80	**3.50**	--	--	**7.90**	<0.25	**0.80**	**0.40**	
MW-9	09/08/08	1.25	--	--	--	--	--	--	--	
MW-9	12/05/08	0.47	--	--	--	--	--	--	--	
MW-9	03/04/09	0.32	--	--	--	--	--	--	--	
MW-9	06/02/09	0.51	**0.57**	--	--	**1.50**	<0.25	**10.00**	<0.10	
MW-9	09/22/09	1.16	--	--	--	--	--	--	--	
MW-9	11/17/09	0.48	--	--	--	--	--	--	--	
MW-9	03/09/10	0.48	--	--	--	--	--	--	--	
MW-9	06/09/10	0.00	**7.50**	--	--	**2.90**	<0.25	**4.80**	**0.49**	
MW-9	09/09/10	0.37	--	--	--	--	--	**2.00**	--	
MW-9	11/15/10	0.39	--	--	--	--	--	--	--	
MW-9	03/01/11	0.00	--	--	--	--	--	--	--	
MW-9	05/24/11	0.00	**18.00**	--	--	<0.050	<0.25	**3.60**	**0.10**	
MW-9	08/29/11	0.27	--	--	--	--	--	--	--	
MW-9	12/01/11	0.66	--	--	--	--	--	--	--	
MW-9	03/01/12	1.35	--	--	--	--	--	--	--	
MW-9	05/31/12	0.00	**0.13**	--	--	<0.050	**0.38**	**5.30**	<0.10	
MW-9	04/10/13	--	**6.1**	--	--	<0.050	**0.88 ***	**3.2**	<0.10	
MW-9	06/24/13	--	--	--	--	--	<0.25	**5.3**	**0.11**	Baseline monitoring event
MW-9	07/30/13	--	**14**	**2.0**	<0.30	--	<0.25	**72**	**0.077 J**	
MW-9	10/03/13	0.00	**18**	**3.8**	**1.5**	--	<0.50 *	**8.6**	<0.10	
MW-9	01/22/14	9.46	--	--	--	--	--	**26**	<0.10	
MW-9	04/21/14	--	**24**	--	--	**0.45**	<0.25	**300**	<0.10	
MW-9	07/14/14	0.24	**21**	**1.5**	**1.2**	--	--	**99**	<0.10	
MW-12R	06/01/09	0.36	--	--	--	--	--	--	--	
MW-12R	06/08/10	0.19	--	--	--	--	--	--	--	
MW-12R	05/23/11	0.55	--	--	--	--	--	--	**0.0050**	
MW-12R	06/01/12	0.00	--	--	--	--	--	--	**0.0050**	
MW-12R	04/09/13	--	--	--	--	--	--	--	<0.10	
MW-12R	04/23/14	--	--	--	--	--	--	--	<0.10	
MW-13R	06/01/09	0.49	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-13R	06/08/10	0.00	--	--	--	--	--	--	--	
MW-13R	05/23/11	0.18	--	--	--	--	--	--	**0.0050**	
MW-13R						Abandoned on 5/25/2012				
MW-14	08/29/02	2.20	**5.90**	--	--	**20.00**	<0.25	**52.00**	**0.70**	
MW-14	11/05/02	2.40	**11.00**	--	--	**23.00**	<0.25	**39.00**	**0.80**	
MW-14	02/20/03	1.90	**3.50**	--	--	**20.00**	<0.25	**35.00**	**0.80**	
MW-14	06/11/03	1.50	**2.90**	--	--	**19.00**	<0.25	**4.30**	**0.40**	
MW-14	09/16/03	1.30	**0.86**	--	--	**15.00**	<0.25b	**0.89**	**0.50**	
MW-14	11/20/03	3.70	**0.57**	--	--	**4.90**	**0.57a**	**31.00**	<0.1	
MW-14	02/24/04	4.30	**2.40**	--	--	**19.00**	<0.25b	**0.60**	**0.60**	
MW-14	05/11/04	0.10	**2.30**	--	--	**19.00**	<0.25	<0.50	<0.10	
MW-14	08/26/04	1.01	**2.90**	--	--	**13.00**	<0.25	**47.00**	**0.38**	
MW-14	12/15/04	2.88	**4.50**	--	--	**0.13**	**4.80**	**110.00**	<0.10	
MW-14	03/09/05	2.99	**6.80**	--	--	**12.00**	**0.62**	**41.00**	**0.30**	
MW-14	06/08/05	2.00	**4.30**	--	--	**15.00**	<0.25	**18.00**	**0.40**	
MW-14	09/21/05	2.00	**7.60**	--	--	**19.00**	<0.25	**8.20**	**0.36**	
MW-14	12/14/05	2.10	**8.90**	--	--	**9.50**	<0.25	**21.00**	<0.10	
MW-14	03/14/06	2.10	**1.50**	--	--	**7.90**	<0.25	**33.00**	**0.12**	
MW-14	06/07/06	1.50	**1.50**	--	--	**11.00**	<0.25	**16.00**	**1.10**	
MW-14	09/13/06	1.80	**6.80**	--	--	**14.00**	<0.25	**1.70**	**0.22**	
MW-14	12/13/06	2.20	**2.20**	--	--	**5.80**	**0.36**	**25.00**	<0.10	
MW-14	03/27/07	2.70	--	--	--	--	--	--	--	
MW-14	06/20/07	3.40	**2.90**	--	--	**7.50**	<0.25	**4.90**	**0.79**	
MW-14	09/24/07	3.10	--	--	--	--	--	--	--	
MW-14	12/11/07	1.76	--	--	--	--	--	--	--	
MW-14	03/04/08	1.10	--	--	--	--	--	--	--	
MW-14	06/04/08	2.70	**2.00**	--	--	**3.40**	<0.25	**8.90**	**0.58**	
MW-14	09/08/08	0.69	--	--	--	--	--	--	--	
MW-14	12/05/08	0.45	--	--	--	--	--	--	--	
MW-14	03/04/09	0.81	--	--	--	--	--	--	--	
MW-14	06/02/09	0.89	**0.15**	--	--	**0.12**	**2.50**	**34.00**	<0.10	
MW-14	09/21/09	0.92	--	--	--	--	--	--	--	
MW-14	11/17/09	1.01	--	--	--	--	--	--	--	
MW-14	03/08/10	0.32	--	--	--	--	--	--	--	
MW-14	06/08/10	0.25	**0.72**	--	--	**0.18**	<0.25	**8.50**	<0.10	
MW-14	09/10/10	0.32	--	--	--	--	--	--	--	
MW-14	11/15/10	0.35	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-14	03/01/11	0.020	--	--	--	--	--	--	--	
MW-14	05/24/11	0.00	**0.18**	--	--	**0.10**	**0.25**	**14.00**	**0.10**	
MW-14	08/29/11	0.19	--	--	--	--	--	--	--	
MW-14	12/01/11	0.31	--	--	--	--	--	--	--	
MW-14	03/01/12	1.10	--	--	--	--	--	--	--	
MW-14	05/31/12	0.00	**0.086**	--	--	<0.050	<0.25	**10.00**	<0.10	
MW-14	04/09/13	--	**0.25**	--	--	<0.050	**0.46 ***	**9.2**	<0.10	
MW-14	10/03/13	0.00	--	--	--	--	--	--	--	
MW-14	01/22/14	5.98	--	--	--	--	--	--	--	
MW-14	04/21/14	--	**0.23**	--	--	<0.050	<0.25	**8.8**	<0.10	
MW-14	07/15/14	0.37	--	--	--	--	--	--	--	
MW-16	06/02/09	1.48	--	--	--	--	--	--	--	
MW-16	06/09/10	1.11	--	--	--	--	--	--	--	
MW-16	05/23/11	1.34	--	--	--	--	--	--	--	
MW-16	05/31/12	0.020	--	--	--	--	--	--	--	
MW-18	03/27/07	3.20	--	--	--	--	--	--	--	
MW-18	09/24/07	3.20	--	--	--	--	--	--	--	
MW-18	12/11/07	3.40	--	--	--	--	--	--	--	
MW-18	03/04/08	1.50	--	--	--	--	--	--	--	
MW-18	06/04/08	3.10	--	--	--	--	--	--	--	
MW-18	09/08/08	1.26	--	--	--	--	--	--	--	
MW-18	12/04/08	0.21	--	--	--	--	--	--	--	
MW-18	03/04/09	0.94	--	--	--	--	--	--	--	
MW-18	06/02/09	0.47	--	--	--	--	--	--	--	
MW-18	09/22/09	0.63	--	--	--	--	--	--	--	
MW-18	11/17/09	8.07	--	--	--	--	--	--	--	
MW-18	03/09/10	0.90	--	--	--	--	--	--	--	
MW-18	06/08/10	0.00	--	--	--	--	--	--	--	
MW-18	09/10/10	3.84	--	--	--	--	--	--	--	
MW-18	11/16/10	0.59	--	--	--	--	--	--	--	
MW-18	03/02/11	0.030	--	--	--	--	--	--	--	
MW-18	05/23/11	0.00	--	--	--	--	--	--	--	
MW-18	08/30/11	0.28	--	--	--	--	--	--	--	
MW-18	12/02/11	0.57	--	--	--	--	--	--	--	
MW-18	03/02/12	0.57	--	--	--	--	--	--	--	
MW-18	05/31/12	0.00	--	--	--	--	--	--	--	
MW-18	10/02/13	0.00	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-18	01/22/14	5.50	--	--	--	--	--	--	--	
MW-18	07/15/14	0.15	--	--	--	--	--	--	--	
MW-19	08/29/02	0.90	**13.00**	--	--	**19.00**	<0.25	<0.25	**0.60**	
MW-19	11/05/02	2.70	**10.00**	--	--	**19.00**	<0.25	<0.25	**0.40**	
MW-19	02/20/03	3.20	**13.00**	--	--	**43.00**	<0.25	**23.00**	**0.50**	
MW-19	06/11/03	0.50	**16.00**	--	--	**37.00**	<0.25	**11.00**	**0.40**	
MW-19	09/16/03	1.40	**18.00**	--	--	**30.00**	<0.25b	**5.20**	**0.70**	
MW-19	11/20/03	4.80	**18.00**	--	--	**49.00**	<0.25a	**10.00**	**0.50**	
MW-19	02/24/04	2.10	**20.00**	--	--	**39.00**	<0.25b	**1.80**	**0.60**	
MW-19	05/11/04	0.60	**17.00**	--	--	**30.00**	<0.25	**0.98**	**0.24**	
MW-19	08/26/04	2.83	**15.00**	--	--	**15.00**	<0.25	<0.50	**0.20**	
MW-19	12/15/04	3.89	**21.00**	--	--	**44.00**	<0.25	**31.00**	**0.22**	
MW-19	03/09/05	3.42	**22.00**	--	--	**25.00**	<0.25	**5.30**	**0.26**	
MW-19	06/08/05	0.89	**15.00**	--	--	**18.00**	<0.25	**12.00**	**0.60**	
MW-19	06/07/06	1.70	**18.00**	--	--	**7.90**	<0.25	<0.50	**0.55**	
MW-19	09/13/06	2.10	**19.00**	--	--	**10.00**	<0.25	<0.50	**1.30**	
MW-19	12/13/06	3.90	**19.00**	--	--	**30.00**	<0.25	**16.00**	**0.43**	
MW-19	03/27/07	2.50	--	--	--	--	--	--	--	
MW-19	06/20/07	1.90	**23.00**	--	--	**9.30**	<0.25	<0.50	**0.19**	
MW-19	09/24/07	3.70	--	--	--	--	--	--	--	
MW-19	12/11/07	2.13	--	--	--	--	--	--	--	
MW-19	03/04/08	1.90	--	--	--	--	--	--	--	
MW-19	06/04/08	3.40	**21.00**	--	--	**7.00**	<0.25	**0.86**	**0.46**	
MW-19	09/08/08	1.02	--	--	--	--	--	--	--	
MW-19	12/05/08	0.27	--	--	--	--	--	--	--	
MW-19	03/04/09	0.52	--	--	--	--	--	--	--	
MW-19	06/02/09	0.37	**28.00**	--	--	**6.30**	<0.25	<0.50	**0.18**	
MW-19	09/21/09	0.35	--	--	--	--	--	--	--	
MW-19	11/17/09	0.86	--	--	--	--	--	--	--	
MW-19	03/08/10	0.69	--	--	--	--	--	--	--	
MW-19	06/08/10	0.00	**27.00**	--	--	**10.00**	<0.25	<0.50	<0.10	
MW-19	09/09/10	0.41	--	--	--	--	<0.25	**39.00**	--	
MW-19	11/15/10	0.35	--	--	--	--	--	--	--	
MW-19	03/01/11	0.00	--	--	--	--	--	--	--	
MW-19	05/24/11	0.69	**28.00**	--	--	**1.70**	<0.25	**3.80**	**0.11**	
MW-19	08/29/11	0.21	--	--	--	--	--	--	--	
MW-19	12/01/11	0.41	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-19	03/01/12	0.26	--	--	--	--	--	--	--	
MW-19	05/31/12	0.00	**13.00**	--	--	**10.00**	<0.25	<0.50	**0.21**	
MW-19	04/09/13	--	**27**	--	--	**7.5**	<0.25 *	<0.50	<0.10	
MW-19	06/21/13	--	--	--	--	--	<0.25 *	<0.50	**0.13**	Baseline monitoring event
MW-19	10/03/13	0.00	--	--	--	--	--	--	--	
MW-19	01/22/14	7.20	--	--	--	--	--	**620**	<0.10	
MW-19	04/21/14	--	**28**	--	--	**30**	<0.25	**190**	**0.23**	
MW-19	07/15/14	0.46	**30**	**8.3**	**7.6**	--	--	**0.25 J**	<0.10	
MW-20	08/29/02	2.60	**12**	--	--	**5.4**	<0.25	**7.90**	**0.3**	
MW-20	11/06/02	5.70	**0.10**	--	--	**4.2**	<0.25	**610.00**	**0.3**	
MW-20	06/11/03	15.00	<0.01	--	--	**7.30**	<0.25	**2200.00**	**0.2**	
MW-20	09/17/03	14.00	<0.010	--	--	**2.00**	<0.25a	**1800.00**	**0.5**	
MW-20	11/20/03	13.00	**0.15**	--	--	**1.70**	<0.25a	**1900.00**	<0.1	
MW-20	02/25/04	14.00	**0.026**	--	--	**0.34**	<0.25b	**2100.00**	**--****	
MW-20	05/11/04	7.50	**0.048**	--	--	**0.29**	<0.25	**2100.00**	<0.10	
MW-20	08/26/04	2.00	**16.00**	--	--	**140.00**	<0.25	**970.00**	<0.10	
MW-20	12/15/04	3.34	**0.71**	--	--	**27.00**	<0.25	**550.00**	**0.28**	
MW-20	03/09/05	2.82	**0.25**	--	--	**18.00**	<0.25	**470.00**	<0.10	
MW-20	06/08/05	2.50	**10.00**	--	--	**18.00**	<0.25	**480.00**	**0.20**	
MW-20	12/14/05	3.20	**0.28**	--	--	**15.00**	<0.25	**250.00**	**0.21**	
MW-20	03/14/06	3.20	**0.98**	--	--	**5.50**	<0.25	**56.00**	<0.10	
MW-20	06/07/06	1.00	**15.00**	--	--	**7.40**	<0.25	**68.00**	<0.10	
MW-20	09/13/06	2.50	**23.00**	--	--	**17.00**	<0.25	**110.00**	<0.10	
MW-20	12/13/06	2.30	**3.3**	--	--	**2.30**	<0.25	**69.00**	<0.10	
MW-20	06/20/07	4.10	--	--	--	--	--	--	--	
MW-20	06/05/08	2.30	--	--	--	--	--	--	--	
MW-20	06/02/09	0.40	--	--	--	--	--	--	--	
MW-20	06/09/10	0.00	--	--	--	--	--	--	--	
MW-20	05/23/11	0.00	--	--	--	--	--	--	--	
MW-20	05/31/12	0.00	--	--	--	--	--	--	--	
MW-21	02/19/03	6.90	**0.061**	--	--	**1.9**	<0.25	**1400**	<0.1	
MW-21	11/20/03	0.90	**0.013**	--	--	**2.80**	<0.25a	**17.00**	**0.5**	
MW-21	02/26/04	1.00	**12.00**	--	--	**17.00**	<0.25b	**12.00**	**0.9**	
MW-21	05/11/04	1.80	**4.70**	--	--	**12.00**	<0.25	**0.92**	<0.10	
MW-21	08/26/04	2.80	**2.00**	--	--	**1.80**	<0.25	<0.50	**0.13**	
MW-21	03/09/05	0.99	**4.30**	--	--	**9.80**	<0.25	<0.50	<0.10	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-21	06/08/05	3.50	**1.80**	--	--	**11.00**	<0.25	**1.20**	**0.5**	
MW-21	09/21/05	2.40	**15.00**	--	--	**7.20**	<0.25	<0.50	**0.14**	
MW-21	12/14/05	1.20	**18.00**	--	--	**0.19**	<0.25	**5.30**	**0.18**	
MW-21	03/14/06	1.20	<0.010	--	--	**0.10**	<0.25	**3.20**	<0.10	
MW-21	06/07/06	1.20	**1.70**	--	--	**9.90**	<0.25	**2.30**	**0.37**	
MW-21	03/27/07	0.90	--	--	--	--	--	--	--	
MW-21	06/20/07	2.10	**9.10**	--	--	**4.20**	<0.25	<0.50	<0.10	
MW-21	09/24/07	2.50	--	--	--	--	--	--	--	
MW-21	12/11/07	2.60	--	--	--	--	--	--	--	
MW-21	03/04/08	2.50	--	--	--	--	--	--	--	
MW-21	06/04/08	2.80	**14.00**	--	--	**7.40**	<0.25	<0.50	**0.13**	
MW-21	09/08/08	0.77	--	--	--	--	--	--	--	
MW-21	12/05/08	1.24	--	--	--	--	--	--	--	
MW-21	03/04/09	0.84	--	--	--	--	--	--	--	
MW-21	06/02/09	1.29	**7.10**	--	--	**4.00**	<0.25	**3.90**	**0.23**	
MW-21	09/22/09	0.79	--	--	--	--	--	--	--	
MW-21	11/17/09	2.17	--	--	--	--	--	--	--	
MW-21	03/09/10	1.03	--	--	--	--	--	--	--	
MW-21	11/15/10	0.72	--	--	--	--	--	--	--	
MW-21	03/01/11	0.11	--	--	--	--	--	--	--	
MW-21	05/24/11	0.41	**0.85**	--	--	**0.11**	**ND**	**4.30**	**0.10**	
MW-21	08/29/11	0.55	--	--	--	--	--	--	--	
MW-21	12/01/11	1.16	--	--	--	--	--	--	--	
MW-21	03/01/12	0.79	--	--	--	--	--	--	--	
MW-21	05/31/12	0.00	**0.24**	--	--	**0.092**	<0.25	**5.70**	**0.22**	
MW-21	04/10/13	--	**0.62**	--	--	<0.050	**0.70 ***	**4.2**	<0.10	
MW-21	10/03/13	0.00	--	--	--	--	--	--	--	
MW-21	01/22/14	8.32	--	--	--	--	--	--	--	
MW-21	04/24/14	--	**0.20**	--	--	<0.050	<0.25	**7.8**	<0.10	
MW-21	07/15/14	0.29	--	--	--	--	--	--	--	
MW-22	08/29/02	0.70	**2.4**	--	--	**9.1**	<0.25	**2.20**	**0.2**	
MW-22	11/05/02	1.60	**1.1**	--	--	**5.6**	<0.25	**99.00**	**0.2**	
MW-22	02/19/03	2.10	<0.01	--	--	**4.7**	<0.25	**120**	**0.1**	
MW-22	06/10/03	1.30	**0.087**	--	--	**5.00**	**0.64**	**110.00**	**0.5**	
MW-22	09/16/03	2.40	**2.0**	--	--	**55.00**	<0.25b	**230.00**	**1.6**	
MW-22	11/19/03	6.60	**0.056**	--	--	**2.30**	<0.25b	**100.00**	**0.4**	
MW-22	02/25/04	8.20	<0.01	--	--	**2.40**	**0.38b**	**43.00**	**0.4**	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-22	05/11/04	5.10	<0.010	--	--	**0.48**	**0.87**	**36.00**	<0.10	
MW-22	08/25/04	2.72	**1.4**	--	--	**2.70**	**0.33**	**59.00**	**--*b**	
MW-22	12/14/04	1.35	**3.2**	--	--	**5.50**	**1.20**	**65.00**	<0.10	
MW-22	03/10/05	1.40	**0.38**	--	--	**9.20**	**0.49**	**23.00**	**0.61**	
MW-22	06/07/05	4.20	**0.53**	--	--	**6.30**	<0.25	**25.00**	**0.7**	
MW-22	09/20/05	3.70	**0.86**	--	--	**27.00**	<0.25	**24.00**	**0.16**	
MW-22	12/13/05	2.10	**3.8**	--	--	**12.00**	<0.25	**25.00**	**3.0**	
MW-22	03/15/06	2.10	**0.033**	--	--	**4.40**	<0.25	**14.00**	<0.10	
MW-22	06/08/06	2.60	**0.62**	--	--	**4.50**	<0.25	**17.00**	**0.19**	
MW-22	09/12/06	2.60	**2.2**	--	--	**4.50**	<0.25	**19.00**	**0.11**	
MW-22	12/12/06	0.90	**0.010**	--	--	**2.20**	<0.25	**7.3**	<0.10	
MW-22	06/19/07	1.80	--	--	--	--	--	--	--	
MW-22	06/04/08	2.60	--	--	--	--	--	--	--	
MW-22	06/02/09	0.50	--	--	--	--	--	--	--	
MW-22	06/09/10	0.00	--	--	--	--	--	--	--	
MW-22	09/09/10	0.36	--	--	--	--	--	<0.50	--	
MW-22	05/23/11	0.00	--	--	--	--	--	--	--	
MW-22	05/31/12	0.00	--	--	--	--	--	--	--	
MW-23	02/25/04	1.60	**12**	--	--	**15**	<0.25b	**13.00**	**0.4**	
MW-23	05/12/04	1.80	**13**	--	--	**19**	<0.25	**3.60**	**0.16**	
MW-23	08/26/04	1.41	**10**	--	--	**14**	<0.25	**21.00**	**0.11**	
MW-23	12/13/05	2.30	**16**	--	--	**1.2**	<0.25	<0.50	**0.25**	
MW-23	03/15/06	2.30	**17**	--	--	**20**	<0.25	<0.50	**0.23**	
MW-23	06/08/06	1.10	**18**	--	--	**18**	<0.25	<0.50	**0.20**	
MW-23	12/12/06	1.90	**27**	--	--	**27**	<0.25	<0.50	**0.24**	
MW-23	03/27/07	2.40	--	--	--	--	--	--	--	
MW-23	06/19/07	1.20	**13**	--	--	**18**	<0.25	<1.0	**0.19**	
MW-23	09/25/07	2.90	--	--	--	--	--	--	--	
MW-23	12/11/07	2.77	--	--	--	--	--	--	--	
MW-23	03/04/08	2.40	--	--	--	--	--	--	--	
MW-23	06/04/08	1.70	**12**	--	--	**63**	<0.25	**1.0**	**0.48**	
MW-23	12/04/08	0.53	--	--	--	--	--	--	--	
MW-23	03/04/09	0.80	--	--	--	--	--	--	--	
MW-23	06/02/09	0.42	**9.5**	--	--	**17**	<0.25	**57**	**0.92**	
MW-23	09/21/09	0.60	--	--	--	--	--	--	--	
MW-23	11/16/09	0.43	--	--	--	--	--	--	--	
MW-23	03/08/10	0.26	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-23	06/08/10	0.15	**11.00**	--	--	**22.00**	<0.25	**4.20**	**0.52**	
MW-23	09/10/10	3.49	--	--	--	--	--	--	--	
MW-23	11/16/10	0.46	--	--	--	--	--	--	--	
MW-23	03/02/11	0.00	--	--	--	--	--	--	--	
MW-23	05/24/11	0.33	**14.00**	--	--	**31.00**	<0.25	**0.80**	**0.10**	
MW-23	08/30/11	1.10	--	--	--	--	--	--	--	
MW-23	12/02/11	0.89	--	--	--	--	--	--	--	
MW-23	03/02/12	0.65	--	--	--	--	--	--	--	
MW-23	05/30/12	0.00	**5.50**	--	--	**41.00**	<0.25	**74.00**	**0.38**	
MW-23	04/10/13	--	**1.9**	--	--	**92**	<0.25	**1,000**	<0.10	
MW-23	10/02/13	0.00	--	--	--	--	--	--	--	
MW-23	01/21/14	5.42	--	--	--	--	--	--	--	
MW-23	04/23/14	--	**3.1**	--	--	**23**	<0.25	**470**	<0.10	
MW-23	07/15/14	0.30	--	--	--	--	--	--	--	
MW-24	02/25/04	1.70	**15**	--	--	**22**	<0.25b	**6.40**	**0.3**	
MW-24	03/15/06	--	**25**	--	--	**46**	<0.25	<0.50	**0.23**	
MW-24	06/08/06	1.60	**7.6**	--	--	**9.1**	<0.25	<0.50	**0.42**	
MW-24	12/12/06	2.30	**16**	--	--	**3.2**	<0.25	<0.50	**0.31**	
MW-24	03/27/07	2.20	--	--	--	--	--	--	--	
MW-24	06/19/07	1.40	**15**	--	--	**68**	<0.25	<0.50	**1.7**	
MW-24	09/25/07	2.30	--	--	--	--	--	--	--	
MW-24	12/11/07	1.19	--	--	--	--	--	--	--	
MW-24	03/04/08	2.20	--	--	--	--	--	--	--	
MW-24	06/04/08	2.10	**15**	--	--	**17**	<0.25	**7.4**	**0.85**	
MW-24	09/08/08	1.38	--	--	--	--	--	--	--	
MW-24	12/05/08	0.33	--	--	--	--	--	--	--	
MW-24	03/04/09	0.83	--	--	--	--	--	--	--	
MW-24	06/02/09	0.46	**12**	--	--	**37**	<0.25	<0.50	<0.10	
MW-24	09/21/09	0.77	--	--	--	--	--	--	--	
MW-24	11/16/09	0.78	--	--	--	--	--	--	--	
MW-24	03/08/10	0.29	--	--	--	--	--	--	--	
MW-24	06/08/10	0.00	**12.00**	--	--	**35.00**	<0.25	<0.50	**0.23**	
MW-24	09/10/10	3.70	--	--	--	--	--	--	--	
MW-24	11/16/10	0.47	--	--	--	--	--	--	--	
MW-24	03/02/11	0.00	--	--	--	--	--	--	--	
MW-24	05/24/11	0.53	**12.00**	--	--	**26.00**	<0.25	**0.78**	**0.11**	
MW-24	08/30/11	0.39	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-24	12/02/11	0.48	--	--	--	--	--	--	--	
MW-24	03/02/12	1.52	--	--	--	--	--	--	--	
MW-24	05/30/12	0.00	**7.50**	--	--	**31.00**	<0.25	**2.40**	**0.15**	
MW-24	04/10/13	--	**19**	--	--	**35**	<0.25	**1.0**	<0.10	
MW-24	10/02/13	0.00	--	--	--	--	--	--	--	
MW-24 (DUP-1)	01/22/14	0.00	--	--	--	--	--	--	--	Duplicate of MW-24
MW-24	04/23/14	--	**13**	--	--	**52**	**0.95**	**2.3**	<0.10	
MW-24	07/15/14	0.20	--	--	--	--	--	--	--	
MW-25	02/26/04	1.30	**1.5**	--	--	**27**	<0.25b	**120.00**	**0.9**	
MW-25	05/12/04	1.90	**2.0**	--	--	**12**	<0.25	**140.00**	**0.10**	
MW-25	08/26/04	1.78	**1.7**	--	--	**5.4**	<0.25	**380.00**	**0.13**	
MW-25	12/14/04	2.10	**0.40**	--	--	**2.7**	<0.25	**370.00**	<0.10	
MW-25	03/10/05	2.10	**2.0**	--	--	**3.5**	<0.25	**180.00**	**0.21**	
MW-25	06/07/05	1.75	**2.2**	--	--	**4.7**	<0.25	**160.00**	**0.7**	
MW-25	09/20/05	1.30	**0.91**	--	--	**1.8**	<0.25	**270.00**	**0.12**	
MW-25	12/13/05	2.50	**1.8**	--	--	**1.8**	<0.25	**140.00**	**0.23**	
MW-25	03/15/06	2.50	**0.92**	--	--	**4.6**	<0.25	**210.00**	**0.38**	
MW-25	06/08/06	1.20	**1.9**	--	--	**6.5**	<0.25	**120.00**	**0.13**	
MW-25	09/12/06	1.80	**0.84**	--	--	**5.9**	<0.25	**250.00**	<0.10	
MW-25	12/12/06	2.10	**1.6**	--	--	**15**	<0.25	**400.00**	<0.10	
MW-25	06/19/07	2.10	--	--	--	--	--	--	--	
MW-25	06/04/08	2.40	--	--	--	--	--	--	--	
MW-25	06/02/09	0.62	--	--	--	--	--	--	--	
MW-25	06/09/10	0.00	--	--	--	--	--	--	--	
MW-25	05/25/11	1.17	--	--	--	--	--	--	--	
MW-25	06/01/12	0.00	--	--	--	--	--	--	--	
SH-02	12/20/00	--	**5.40**	--	--	**0.86**	**0.040**	**14.00**	**0.32**	
SH-02					Destroyed during construction activities					
SH-02R	08/28/02	1.50	**4.90**	--	--	**17.00**	<0.25	**3.80**	<0.1	
SH-02R	11/05/02	2.10	**6.10**	--	--	**20.00**	<0.25	**13.00**	<0.1	
SH-02R	02/19/03	2.50	**0.29**	--	--	**2.40**	**0.33**	**10.00**	**0.60**	
SH-02R	06/10/03	1.30	**1.40**	--	--	**5.10**	<0.25	**6.80**	**0.30**	
SH-02R	09/16/03	1.90	**5.20**	--	--	**19.00**	<0.25b	**5.10**	**0.40**	
SH-02R	11/19/03	1.10	**1.50**	--	--	**4.60**	**0.34b**	**7.10**	**0.20**	
SH-02R	02/25/04	3.40	**5.00**	--	--	**14.00**	**0.46b**	**5.20**	**0.40**	
SH-02R	05/12/04	2.00	**3.20**	--	--	**7.40**	<0.25	**4.40**	<0.10	

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Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
SH-02R	08/26/04	2.24	**2.10**	--	--	**3.80**	<0.25	**5.80**	<0.10	
SH-02R	12/15/04	1.98	**0.092**	--	--	**0.055**	**0.44**	**100.00**	<0.10	
SH-02R	03/09/05	1.59	**0.38**	--	--	**1.50**	<0.25	**380.00**	<0.10	
SH-02R	06/08/05	1.00	**1.20**	--	--	**0.11**	<0.25	**110.00**	<0.2	
SH-02R	09/21/05	1.50	**4.40**	--	--	**0.72**	<0.25	**31.00**	<0.10	
SH-02R	12/14/05	0.70	**2.20**	--	--	**0.28**	<0.25	**11.00**	<0.10	
SH-02R	03/14/06	0.70	**0.42**	--	--	**1.40**	<0.25	**25.00**	<0.10	
SH-02R	06/07/06	0.90	**3.10**	--	--	**4.40**	<0.25	**20.00**	<0.10	
SH-02R	09/13/06	1.70	**3.90**	--	--	**5.50**	<0.25	**24.00**	<0.10	
SH-02R	12/13/06	0.90	**0.38**	--	--	**1.30**	**0.34**	**10.00**	<0.10	
SH-02R	06/20/07	2.00	--	--	--	--	--	--	--	
SH-02R	06/05/08	3.10	--	--	--	--	--	--	--	
SH-02R	06/02/09	0.25	--	--	--	--	--	--	--	
SH-02R	06/08/10	0.24	--	--	--	--	--	--	--	
SH-02R	05/23/11	0.41	--	--	--	--	--	--	**0.0050**	
SH-02R	06/01/12	0.00	--	--	--	--	--	--	**0.0050**	
SH-02R	04/09/13	--	--	--	--	--	--	--	<0.10	
SH-02R	04/23/14	--	--	--	--	--	--	--	<0.10	
SH-05	12/20/00	--	**0.010**	--	--	**1.80**	**0.14**	**6.00**	<0.01	
SH-05R	08/28/02	1.40	**1.00**	--	--	**11.00**	<0.25	**1.40**	**0.50**	
SH-05R	11/05/02	1.50	**1.20**	--	--	**17.00**	<0.25	**6.30**	<0.1	
SH-05R	02/19/03	2.60	**2.90**	--	--	**32.00**	<0.25	**28.00**	<0.1	
SH-05R	06/10/03	1.40	**1.50**	--	--	**33.00**	<0.25	**2.80**	**0.60**	
SH-05R	09/16/03	1.20	**1.60**	--	--	**41.00**	<0.25b	**0.46**	**0.90**	
SH-05R	11/19/03	3.10	**1.60**	--	--	**36.00**	<0.25b	**71.00**	**0.50**	
SH-05R	02/25/04	2.50	**0.56**	--	--	**0.087**	**0.76b**	**120.00**	**0.20**	
SH-05R	05/12/04	1.12	**2.10**	--	--	**16.00**	<0.25	**4.60**	<0.10	
SH-05R	08/26/04	1.96	**2.00**	--	--	**6.40**	<0.25	**0.63**	<0.10	
SH-05R	12/15/04	2.80	**3.70**	--	--	**26.00**	<0.25	**26.00**	<0.10	
SH-05R	03/09/05	2.56	**3.40**	--	--	**2.00**	<0.25	**7.50**	<0.10	
SH-05R	06/08/05	2.50	**3.80**	--	--	**19.00**	<0.25	**30.00**	<0.2	
SH-05R	09/21/05	0.80	**3.10**	--	--	**9.10**	<0.25	<0.50	<0.10	
SH-05R	12/14/05	2.30	**5.40**	--	--	**23.00**	<0.25	**16.00**	<0.10	
SH-05R	03/14/06	2.30	**0.11**	--	--	**0.087**	<0.25	**35.00**	<0.10	
SH-05R	06/07/06	1.20	**1.90**	--	--	**8.40**	**0.34**	**21.00**	<0.10	
SH-05R	09/13/06	1.40	**2.20**	--	--	**7.40**	<0.25	<0.50	<0.10	
SH-05R	12/13/06	2.70	**0.14**	--	--	**0.11**	**2.10**	**100.00**	<0.10	

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Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
SH-05R	06/20/07	0.90	--	--	--	--	--	--	--	
SH-05R	06/05/08	2.90	--	--	--	--	--	--	--	
SH-05R	06/02/09	1.01	--	--	--	--	--	--	--	
SH-05R	06/08/10	0.00	--	--	--	--	--	--	--	
SH-05R	05/23/11	1.39	--	--	--	--	--	--	**0.0050**	
MW-07R	08/28/02	1.60	**0.17**	--	--	**6.90**	<0.25	**9.00**	**0.10**	
MW-07R	11/05/02	1.60	**0.16**	--	--	**12.00**	<0.25	**2.70**	<0.1	
MW-07R	09/16/03	1.40	**0.26**	--	--	**26.00**	<0.25b	**9.10**	**1.60**	
MW-07R	11/19/03	2.20	**0.017**	--	--	**4.90**	**0.77b**	**14.00**	**0.30**	
MW-07R	02/25/04	2.10	<0.01	--	--	**1.80**	**0.42b**	**5.70**	**0.30**	
MW-07R	05/12/04	2.49	<0.010	--	--	**2.20**	**0.74**	**3.40**	<0.10	
MW-07R	08/26/04	2.05	**0.011**	--	--	**0.12**	<0.25	**12.00**	<0.10	
MW-07R	12/15/04	2.00	**0.034**	--	--	**1.40**	**0.36**	**10.00**	<0.10	
MW-07R	03/09/05	2.15	**0.030**	--	--	**4.20**	<0.25	**120.00**	<0.10	
MW-07R	06/08/05	1.98	<0.010	--	--	**0.25**	**0.89**	**5.70**	<0.2	
MW-07R	09/21/05	2.80	**0.13**	--	--	<0.050	<0.25	**15.00**	<0.10	
MW-07R	12/14/05	1.50	<0.010	--	--	<0.050	**0.29**	**5.70**	<0.10	
MW-07R	03/14/06	1.50	**0.23**	--	--	**2.30**	**0.51**	**8.90**	<0.10	
MW-07R	06/07/06	2.20	<0.010	--	--	**0.28**	**2.40**	**3.90**	<0.10	
MW-07R	09/13/06	1.20	**0.26**	--	--	**3.40**	<0.25	**8.50**	<0.10	
MW-07R	12/13/06	1.90	<0.010	--	--	<0.050	**1.90**	**23.00**	<0.10	
MW-07R	06/20/07	1.70	--	--	--	--	--	--	--	
MW-07R	06/05/08	1.90	--	--	--	--	--	--	--	
MW-07R	06/02/09	1.29	--	--	--	--	--	--	--	
MW-07R	06/08/10	1.11	--	--	--	--	--	--	--	
MW-07R	05/23/11	3.20	--	--	--	--	--	--	**0.0050**	
MW-07R	06/01/12	1.03	--	--	--	--	--	--	**0.0050**	
MW-07R	04/09/13	--	--	--	--	--	--	--	<0.10	
MW-07R	04/23/14	--	--	--	--	--	--	--	<0.10	
TMW-B1	06/09/10	1.06	--	--	--	--	--	**3.60**	--	
TMW-B1	09/09/10	0.25	--	--	--	--	--	<0.50	--	
TMW-B1	05/25/11	1.51	--	--	--	--	--	--	--	
TMW-B1	12/02/11	0.33	--	--	--	--	--	--	--	
TMW-B1	03/01/12	0.30	--	--	--	--	--	--	--	
TMW-B1	10/02/13	0.00	--	--	--	--	--	--	--	
TMW-1	06/21/13	--	--	--	--	--	**0.41 ***	**11**	<0.10	Baseline monitoring event

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
TMW-1	07/30/13	--	**0.075**	**10**	<0.30	**--**	**0.28**	**1,900**	<0.10	
TMW-1	10/03/13	2.92	**0.081**	**13**	**5.2**	**--**	<0.50 *	**980**	<0.10	
TMW-1	01/22/14	9.27	**--**	**--**	**--**	**--**	**--**	**450**	<0.10	
TMW-1	04/21/14	--	**--**	**--**	**--**	**--**	<0.25	**670**	<0.10	
TMW-1	07/14/14	0.87	**0.0080 J**	**4.0**	**3.1**	**--**	**--**	**650**	<0.10	
TMW-2	06/21/13	--	**--**	**--**	**--**	**--**	<0.25 *	**0.83**	<0.10	Baseline monitoring event
TMW-2	07/30/13	--	**17**	**29**	**1.2**	**--**	<0.25	**6.4**	<0.10	
TMW-2	10/03/13	0.00	**15**	**160**	**110**	**--**	<0.50 *	**2,000**	<0.10	
TMW-2	01/22/14	6.12	**--**	**--**	**--**	**--**	**--**	**3,000**	<0.10	
TMW-2	04/21/14	--	**--**	**--**	**--**	**--**	<0.25	**2,600**	<0.10	
TMW-2	07/14/14	0.10	**7.1**	**68**	**67**	**--**	**--**	**2,700**	<0.10	
TMW-3	06/24/13	--	**--**	**--**	**--**	**--**	<0.25	**4.4**	<0.10	Baseline monitoring event
TMW-3	07/30/13	--	**2.6**	**10**	<0.30	**--**	<0.25	**3.1**	<0.10	
TMW-3	10/03/13	0.00	**3.8**	**43**	**18**	**--**	<0.50 *	**1,100**	<0.10	
TMW-3	01/22/14	0.00	**--**	**--**	**--**	**--**	**--**	**3,800**	<0.10	
TMW-3	04/24/14	--	**--**	**--**	**--**	**--**	<0.25	**2,500**	<0.10	
TMW-3	07/14/14	0.27	**1.3**	**19**	**17**	**--**	**--**	**3,100**	<0.10	
TMW-4	06/24/13	--	**--**	**--**	**--**	**--**	<0.25	**32**	**0.11**	Baseline monitoring event
TMW-4	07/30/13	--	**13**	**24**	**5.0**	**--**	**0.48**	**1.4**	**0.11**	
TMW-4	10/03/13	0.00	**16**	**410**	**17**	**--**	**0.36 J***	**2,800**	<0.10	
TMW-4	01/22/14	0.00	**--**	**--**	**--**	**--**	**--**	**2,800**	<0.10	
TMW-4	04/24/14	--	**--**	**--**	**--**	**--**	<0.25	**1,400**	<0.10	
TMW-4	07/14/14	0.12	**7.9**	**130**	**130**	**--**	**--**	**940**	<0.10	
TMW-5	06/21/13	--	**--**	**--**	**--**	**--**	<0.25 *	**4.3**	<0.10	Baseline monitoring event
TMW-5	07/30/13	--	**7.6**	**11**	<0.30	**--**	<0.25	**0.67**	**0.25**	
TMW-5	10/03/13	0.00	**5.6**	**39**	**16**	**--**	<0.50 *	**2,500**	**0.10**	
TMW-5	01/22/14	7.18	**--**	**--**	**--**	**--**	**--**	**2,600**	**0.10**	
TMW-5	04/24/14	--	**--**	**--**	**--**	**--**	<0.25	**4,000**	<0.10	
TMW-5	07/14/14	0.09	**2.4**	**8.0**	**0.82**	**--**	**--**	**1,300**	<0.10	
TMW-6	06/24/13	--	**--**	**--**	**--**	**--**	<0.25	**16**	**0.14**	Baseline monitoring event
TMW-6	07/30/13	--	**5.4**	**13**	**2.4**	**--**	<0.25	**5.0**	**0.14**	
TMW-6	10/03/13	0.00	**5.6**	**290**	**250**	**--**	<0.50 *	**1,700**	<0.10	
TMW-6	01/22/14	3.60	**--**	**--**	**--**	**--**	**--**	**2,300**	<0.10	

Table 3

Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
TMW-6	04/24/14	--	**--**	**--**	**--**	**--**	<0.25	**1,800**	<0.10	
TMW-6	07/14/14	0.22	**6.5**	**100**	**98**	**--**	**--**	**1,600**	<0.10	

Notes:
< = Denotes compound was not detected at designated detection limit.
Bold = Concentration detected above the laboratory reporting limit.
mg/l = Milligrams per liter (parts per million)
-- = Not analyzed for this parameter
** = Analysis could not be run due to excess particulate matter.
*a = Lab received broken VOA, not able to run analysis
*b = Lab did not receive sample container to run analysis
a = The lab analyzed these samples for nitrate and sulfate together, using non-preserved samples (submitted for sulfate analysis). Holding time for non-preserved samples for nitrate analysis is 48 hours and for sulfate analysis is 28 days. These samples were received within the 48-hour holding time.
b = The lab analyzed these samples for nitrate only, using sulfuric acid preserved samples (submitted for nitrate analysis). Holding time for preserved samples for nitrate analysis is 28 days. The lab analyzed these for nitrate because non-preserved samples were received outside of 48 hours.

Table 4

Performance Monitoring Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample ID	Date	Methane (Head Space)	Total Iron	Dissolved Iron	Nitrate	Sulfate	Sulfide	TPH-Gasoline	TPH-Diesel	Benzene	Toluene	Ethylbenzene	Xylenes
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Site Specific Cleanup Levels:		N/A	N/A	N/A	N/A	N/A	N/A	1.0	10	0.071	200	29	N/A
11	06/24/13	--	--	--	<0.25	2.5	<0.10	<0.25	0.30	<0.00050	<0.00050	<0.00050	<0.00050
11	07/30/13	0.42	1.0	<0.30	<0.25	0.88	<0.10	<0.25	--	--	--	--	--
11	08/26/13	--	--	--	--	0.71	--	<0.25	--	--	--	--	--
11	10/03/13	0.046	5.2	0.78	1.2 *	560	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
11	01/22/14	--	--	--	--	120	<0.10	0.75	--	<0.00050	<0.00050	<0.00050	<0.00050
11	04/21/14	--	--	--	1.1	580	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
11	07/14/14	0.47	1.6	0.55	--	200	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
12	06/24/13	--	--	--	<0.25	<0.50	<0.10	4.1	5.3	0.037	0.045	0.130	0.530
12	07/30/13	--	--	--	--	--	--	--	--	--	--	--	--
12	08/26/13	--	--	--	--	1,900	--	9.3	--	--	--	--	--
12	10/03/13	2.2	39	35	1.1 *	5,500	<0.10	2.7	--	0.002	0.0057	0.043	0.180
12	01/22/14	--	--	--	--	3,000	<0.10	4.2	--	0.0020	0.0057	0.043	0.180
12	04/21/14	--	--	--	<0.25	1,700	0.22	2.6	--	0.015	0.014	0.088	0.150
12	07/14/14	11	31	38	--	1,100	<0.10	4.7	--	0.019	0.026	0.17	0.22
A-27	06/21/13	--	--	--	<0.25 *	2.7	<0.10	1.0	0.40	0.053	0.0024	0.043	0.0083
A-27	07/30/13	--	--	--	--	--	--	1.5	--	0.058	0.0033	0.040	0.015
A-27	07/30/13	6.2	16	3.6	16	<0.50	<0.10	1.8	--	0.073	0.0039	0.051	0.017
A-27	08/26/13	--	--	--	--	<0.50	--	1.9	--	--	--	--	--
A-27	08/26/13	--	--	--	--	--	--	2.1	--	--	--	--	--
A-27	10/02/13	7.4	14	3.6	<0.50 *	<0.50	<0.10	1.9	--	0.066	0.0041	0.038	0.021
A-27	01/22/14	--	--	--	--	<0.50	<0.10	2.6	--	0.078	0.0042	0.061	0.062
A-27	04/22/14	2.9	--	2.4	<0.25	4.2	<0.10	2.9	--	0.062	0.0023	0.074	0.078
A-27	07/14/14	5.7	18	16	--	<0.50	<0.10	1.8	--	0.051	0.0021	0.012	0.016
MW-7	06/21/13	--	--	--	<0.25 *	3.2	<0.10	4.0	0.27	0.0059	0.064	0.280	1.1
MW-7	07/30/13	20	4.6	<0.30	<0.25	4.1	<0.10	7.2	--	0.016	0.110	0.290	1.6
MW-7	08/26/13	--	--	--	--	1,100	--	7.1	--	--	--	--	--
MW-7	10/03/13	20	170	140	0.81 *	3,100	<0.10	2.8	--	0.016	0.033	0.150	0.540
MW-7	01/22/14	--	--	--	--	2,100	0.23	2.1	--	0.014	0.010	0.130	0.170

Table 4

Performance Monitoring Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample ID	Date	Methane (Head Space)	Total Iron	Dissolved Iron	Nitrate	Sulfate	Sulfide	TPH-Gasoline	TPH-Diesel	Benzene	Toluene	Ethylbenzene	Xylenes
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
MW-7	04/21/14	**7.9**	--	**15**	**0.29**	**1,200**	**0.18**	**1.9**	--	**0.013**	**0.0093**	**0.110**	**0.200**
MW-7	04/21/14	--	--	--	--	--	--	**2.4**	--	**0.015**	**0.012**	**0.130**	**0.250**
MW-7	07/14/14	**24**	**3.7**	**5.8**	--	**1,000**	<0.10	**1.5**	--	**0.012**	**0.0012**	**0.073**	**0.021**
MW-9	06/24/13	--	--	--	<0.25	**5.3**	**0.11**	**0.33**	**0.37**	**0.014**	<0.0005	<0.0005	**0.0035**
MW-9	07/30/13	**14**	**2.0**	**<0.30**	<0.25	**72**	<0.10	**0.27**	--	**0.0017**	<0.00050	**0.00071**	**0.0060**
MW-9	08/26/13	--	--	--	--	**4.3**	--	**0.42**	--	--	--	--	--
MW-9	10/03/13	**18**	**3.8**	**1.5**	<0.50 *	**8.6**	<0.10	**0.30**	--	**0.0056**	<0.00050	<0.00050	**0.0092**
MW-9	01/22/14	--	--	--	--	**26**	<0.10	<0.25	--	<0.0050	<0.00050	<0.00050	**0.0013**
MW-9	04/21/14	**24**	--	**0.45**	<0.25	**300**	<0.10	<0.25	--	**0.017**	<0.00050	<0.00050	<0.00050
MW-9	07/14/14	**21**	**1.5**	**1.2**	--	**99**	<0.10	<0.25	--	**0.01**	<0.00050	<0.00050	**0.00072**
MW-19	06/21/13	--	--	--	<0.25 *	<0.50	**0.13**	**2.8**	**1.1**	**0.019**	**0.017**	**0.310**	**0.081**
MW-19	07/30/13	--	--	--	--	--	--	**4.4**	--	**0.0086**	**0.005**	**0.160**	**0.013**
MW-19	08/26/13	--	--	--	--	<0.50	--	**2.3**	--	--	--	--	--
MW-19	10/03/13	--	--	--	--	--	--	**3.2**	--	**0.0076**	**0.0023**	**0.046**	**0.0020**
MW-19	01/22/14	--	--	--	--	**620**	--	**2.2**	--	**0.021**	**0.00065**	**0.029**	<0.00050
MW-19	04/21/14	**28**	--	**30**	<0.25	**190**	**0.23**	**2.1**	--	**0.0066**	**0.0039**	**0.160**	**0.0064**
MW-19	07/14/14	**30**	**8.3**	**7.6**	--	<0.50	<0.10	**4.2**	--	**0.0059**	**0.01**	**0.21**	**0.15**
MW-19 dup	07/14/14	--	--	--	--	--	--	**4.4**	--	**0.0052**	**0.0097**	**0.2**	**0.15**
TMW-1	06/21/13	--	--	--	**0.41 ***	**11**	<0.10	<0.25	<0.25	<0.00050	<0.00050	<0.00050	<0.00050
TMW-1	07/30/13	**0.075**	**10**	<0.30	**0.28**	**1,900**	<0.10	<0.25	--	--	--	--	--
TMW-1	08/26/13	--	--	--	--	**470**	--	<0.25	--	--	--	--	--
TMW-1	10/03/13	**0.081**	**13**	**5.20**	<0.50 *	**980**	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-1	01/22/14	--	--	--	--	**450**	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-1	04/21/14	--	--	--	<0.25	**670**	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-1	07/14/14	<0.010	**4.0**	**3.1**	--	**650**	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-2	06/21/13	--	--	--	<0.25 *	**0.83**	<0.10	**0.25**	**0.28**	**0.0075**	**0.00097**	<0.0005	**0.00068**
TMW-2	07/30/13	**17**	**29**	**1.2**	<0.25	**6.4**	<0.10	**0.26**	--	--	--	--	--
TMW-2	08/26/13	--	--	--	--	**61**	--	**0.64**	--	--	--	--	--
TMW-2	10/03/13	**15**	**160**	**110**	<0.50 *	**2,000**	<0.10	**0.50**	--	**0.013**	**0.00074**	<0.00050	**0.0024**
TMW-2	01/22/14	--	--	--	--	**2,000**	<0.10	**0.28**	--	**0.011**	<0.00050	<0.00050	<0.00050

Table 4

Performance Monitoring Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample ID	Date	Methane (Head Space)	Total Iron	Dissolved Iron	Nitrate	Sulfate	Sulfide	TPH-Gasoline	TPH-Diesel	Benzene	Toluene	Ethylbenzene	Xylenes
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
TMW-2	04/21/14	--	--	--	<0.25	2,600	<0.10	<0.25	--	<0.001 v	<0.001 v	<0.001 v	<0.001 v
TMW-2	07/14/14	7.1	68	67	--	2,700	<0.10	<0.25	--	0.0028	<0.00050	<0.00050	<0.00050
TMW-3	06/24/13	--	--	--	<0.25	4.4	<0.10	0.86	0.85	<0.0005	0.00052	<0.0005	0.00087
TMW-3	07/30/13	2.6	10	<0.30	<0.25	3.1	<0.10	0.98	--	--	--	--	--
TMW-3	08/26/13	--	--	--	--	37	--	1.2	--	--	--	--	--
TMW-3	10/03/13	3.8	43	18	<0.50 *	1,100	<0.10	0.92	--	0.00057	0.00180	0.0076	0.0072
TMW-3	01/22/14	--	--	--	--	3,800	<0.10	0.75	--	<0.0010 v	0.0022	<0.0010o	<0.0010o
TMW-3	04/24/14	--	--	--	<0.25	2,500	<0.10	0.51	--	<0.00050	0.0046	0.0011	<0.00050
TMW-3	07/14/14	1.3	19	17	--	3,100	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-4	06/24/13	--	--	--	<0.25	32	0.11	4.9	2.5	0.170	0.084	0.230	0.950
TMW-4	07/30/13	13	24	5	0.48	1.4	0.11	5.1	--	--	--	--	--
TMW-4	08/26/13	--	--	--	--	2,200	--	9.2	--	--	--	--	--
TMW-4	10/03/13	16	410	17	<0.50 *	2,800	<0.10	4.7	--	0.130	0.120	0.290	1.300
TMW-4	01/22/14	--	--	--	--	2,800	<0.10	6.0	--	0.210	0.070	0.400	0.990
TMW-4	04/24/14	--	--	--	<0.25	1,400	<0.10	4.0	--	0.160	0.044	0.390	0.840
TMW-4	07/14/14	7.9	130	130	--	940	<0.10	5.6	--	0.19	0.016	0.38	0.35
TMW-5	06/21/13	--	--	--	<0.25 *	4.3	<0.10	1.3	0.65	0.100	0.0097	0.022	0.020
TMW-5	07/30/13	7.6	11	<0.30	<0.25	0.67	0.25	4.3	--	--	--	--	--
TMW-5	08/26/13	--	--	--	--	980	--	4.2	--	--	--	--	--
TMW-5	10/03/13	5.6	39	16	<0.50 *	2,500	0.10	1.9	--	0.044	0.0063	0.0038	0.0088
TMW-5	01/22/14	--	--	--	--	2,600	0.10	1.9	--	0.0039	0.0031	0.0012	0.0023
TMW-5	04/24/14	--	--	--	<0.25	4,000	<0.10	1.4	--	<0.0015 v	0.0026	0.0017	0.0021
TMW-5	07/14/14	2.4	8.0	0.82	--	1,300	<0.10	1.4	--	0.01	0.0016	<0.00050	0.00062
TMW-6	06/24/13	--	--	--	<0.25	16	0.14	4.9	1.8	0.067	0.0099	0.150	0.550
TMW-6	07/30/13	5.4	13	2.4	<0.25	5.0	0.14	7.8	--	--	--	--	--
TMW-6	08/26/13	--	--	--	--	340	--	8.5	--	--	--	--	--
TMW-6	10/03/13	5.6	290	250	<0.50 *	1,700	<0.10	5.4	--	0.028	0.010	0.180	0.420
TMW-6	01/22/14	--	--	--	--	2,300	<0.10	7.0	--	0.060	0.010	0.280	0.530
TMW-6	04/24/14	--	--	--	<0.25	1,800	<0.10	5.1	--	0.015	0.0036	0.190	0.370
TMW-6	07/04/14	6.5	100	98	--	1,600	<0.10	3.9	--	0.064	0.0047	0.16	0.21

Table 4

Performance Monitoring Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample ID	Date	Methane (Head Space)	Total Iron	Dissolved Iron	Nitrate	Sulfate	Sulfide	TPH-Gasoline	TPH-Diesel	Benzene	Toluene	Ethylbenzene	Xylenes
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l

Notes: < = Denotes compound was not detected at designated detection limit.
Bold = Concentration detected above the laboratory reporting limit.
mg/l = Milligrams per liter (parts per million)
-- = Not analyzed for this parameter
* = The lab analyzed nitrate using sulfuric acid preserved samples. Concentration may be biased high due to possible oxidation of nitrite to nitrate.
o = Reporting limit increased due to sample foaming
v = Reporting limit increased due to high concentration of target analytes

Table 5

ARCADIS

Summary of Historical Soil Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well/ Boring ID	Location/ Yard	Sample Depth	Sample Date	TPH-GRO	TPH-DRO	TPH-HO	B	T	E	X	Total As	Total Pb
EPA Hot Spot Criteria C Yard				**20,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
EPA Hot Spot Criteria A, B, D, & E Yards				**10,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
A-16 S-2	A	6.5-8	10/3/1991	ND	ND	--	ND	ND	ND	ND		--
A-16-S-5	A	15-16.5	10/3/1991	ND	ND	--	ND	ND	ND	ND		--
A-17 S-2	A	6.5-8	10/3/1991	ND	ND	--	ND	ND	ND	ND		--
A-17 S-5	A	15-16.5	10/3/1991	ND	ND	--	ND	ND	ND	ND		--
A-18 S-2	A	6.5-8	10/4/1991	ND	ND	--	ND	ND	ND	ND		--
A-18 S-3	A	8.5-10	10/4/1991	ND	ND	--	ND	ND	ND	ND		--
A-19 S-2	A	6.5-8	10/3/1991	4,700	970	--	0.340	28	43	>100		--
A-19 S-4	A	11-12.5	10/3/1991	ND	ND	--	ND	0.270	0.170	1.91		--
A-19 S-5	A	15-16.5	10/3/1991	**140J**	75	--	0.095	1.1	1.6	10.3		--
A-20 S-2	A	6.5-8	10/2/1991	4,600	1,900	--	0.380	27	42	>100		--
A-20 S-5	A	15-16.5	10/2/1991	810	310	--	0.084	3.5	5	37		--
A-21 S-3	A	6.5-8	10/2/1991	ND	ND	--	ND	ND	ND	ND		--
A-21 S-5	A	15-16.5	10/2/1991	ND	ND	--	ND	ND	ND	ND		--
A-22 S-2	A	5-6.5	11/7/1991	ND	ND	--	ND	ND	ND	0.217J		--
A-22 S-3	A	7.5-9	11/7/1991	**37,000**	**13,000**	--	25	>50	ND	ND		--
A-23 S-2	West of A	5-6.5	11/7/1991	ND	ND	--	ND	ND	ND	0.110J		--
A-23 S-3	West of A	7.5-9	11/7/1991	470	ND	--	ND	0.370	1.4	5.24J		--
A-24 S-2	West of A	5-6.5	11/7/1991	ND	ND	--	ND	ND	ND	ND		--
A-24 S-3	West of A	7.5-9	11/7/1991	ND	ND	--	ND	ND	ND	0.059J		--
A-25 S-3	A	7.5-9	1/24/1992	**6,500**	**3,600**	--	56	62	160	860		--
A-26 S-3	A	7.5-9	1/27/1992	500	1,990	--	2.3	16	13	74		--
A-27 S-3	B	7.5-9	1/27/1992	3,000	2,210	--	7.2	13	56	420		--
A-28 S-3	West of B	7.5-9	1/24/1992	1,400	650	--	0.890	2.8	11	60		--
A-29 S-3	A	7.5-9	1/27/1992	**32,000**	**15,000**	--	63	260	140	720		--

Table 5

Summary of Historical Soil Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well/ Boring ID	Location/ Yard	Sample Depth	Sample Date	TPH-GRO	TPH-DRO	TPH-HO	B	T	E	X	Total As	Total Pb
EPA Hot Spot Criteria C Yard				**20,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
EPA Hot Spot Criteria A, B, D, & E Yards				**10,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
MW-1	E	3-4	11/20/1992	<5	<27	--	<0.027	<0.027	<0.027	<0.027	1.5	1.6
MW-2	W of C	4	12/16/1992	<5	<29	--	<0.027	<0.027	<0.027	<0.027	2.8	20
MW-2	W of C	6.5	12/16/1992	<6	34	--	<0.028	<0.028	<0.028	<0.028	5.2	9.6
MW-3	C	3-4	11/23/1992	7	27	--	<0.027	<0.027	<0.027	<0.027	1.4	1.8
MW-4	E of C	4	12/16/1992	<5	7,400	--	<0.026	<0.026	<0.026	<0.026	1.8	1.4
MW-4	E of C	6.5	12/16/1992	**27**	**17,000**	--	<0.030	<0.030	<0.030	<0.030	0.7	0.88
MW-5	D	3-4	11/20/1992	<7	<33	--	<0.033	<0.033	<0.033	<0.033	2.4	1
MW-6	D	4	12/16/1992	<6	<28	--	<0.028	<0.028	<0.028	<0.028	2.1	33
MW-6	D	6.5	12/16/1992	<6	<28	--	<0.028	<0.028	<0.028	<0.028	2.0	51
MW-7	B	3-4	11/20/1992	3,800	830	--	0.30	4.0	9.6	110	1	11
MW-8	B	4	11/20/1992	160	1,300	--	<0.032	0.060	<0.032	0.050	<0.32	8.7
MW-9		4	11/19/1992	**5,300**	**2,000**	**7,900**	ND	7.5	19.0	300	0.75	6.1
MW-10D		3-4	11/23/1992	ND	ND	ND	ND	ND	ND	ND	2.3	1.9
MW-11D		3-4	11/23/1992	130	290	450	ND	0.17	0.099	1	3	23.0
MW-12		4	3/9/1994	ND	ND	ND	ND	ND	ND	ND	--	--
MW-13		4	3/9/1994	ND	ND	ND	ND	ND	ND	ND	--	--
SS-1		2	11/24/1992	--	--	ND	--	--	--	--	2.4	1.4
SS-2		3	11/24/1992	--	--	**29,000**	--	--	--	--	1	8.5
SS-3		2	11/24/1992	--	--	ND	--	--	--	--	2.1	5.2
SS-4		2	11/24/1992	--	--	ND	--	--	--	--	1.7	1.2
SS-5		2	11/24/1992	--	--	2,100	--	--	--	--	10	99.0
SS-5		4	11/24/1992	--	--	--	--	--	-	--	1.2	
SS-6		2	11/24/1992	--	--	9,200	--	--	--	--	<0.29	--
SS-7-1		1	7/21/1993	--	--	62	--	--	--	--		**--**
SS-7-4		4	7/21/1993	--	--	8,700	--	--	--	--		**--**
SS-8-1		1	7/21/1993	--	--	340	--	--	--	--		**--**
SS-8-4.5		4.5	7/21/1993	--	--	1,500	--	--	--	--		**--**

Table 5

ARCADIS

Summary of Historical Soil Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well/ Boring ID	Location/ Yard	Sample Depth	Sample Date	TPH-GRO	TPH-DRO	TPH-HO	B	T	E	X	Total As	Total Pb
EPA Hot Spot Criteria C Yard				**20,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
EPA Hot Spot Criteria A, B, D, & E Yards				**10,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
SS-9-1		1	7/21/1993	--	--	22	--	--	--	--		**--**
SS-9-4		4	7/21/1993	--	--	**35,000**	--	--	--	--		**--**
SS-10-1		1	7/21/1993	--	--	750	--	--	--	--		**--**
SS-10-4		4	7/21/1993	--	--	400	--	--	--	--		**--**
SS-11-1		1	7/21/1993	--	--	2,600	--	--	--	--		**--**
SS-11-4		4	7/21/1993	--	--	4,800	--	--	--	--		**--**
SS-12-1		1	7/21/1993	--	--	ND	--	--	--	--		**--**
SS-12-4		4	7/21/1993	--	--	3,300	--	--	--	--		**--**
SS-13-1		1	7/21/1993	--	--	610	--	--	--	--		**--**
SS-13-3		3	7/21/1993	--	--	**17,000**	--	--	--	--		**--**
SS-14-1		1	7/21/1993	--	--	ND	--	--	--	--		**--**
SS-14-3		3	7/21/1993	--	--	ND	--	--	--	--		**--**
SS-15-1		1	7/21/1993	--	--	ND	--	--	--	--		**--**
SS-15-3		3	7/21/1993	--	--	ND	--	--	--	--		**--**
SS-16-4		4	7/22/1993	ND	13	--	ND	ND	ND	ND		--
SS-16-6		6	7/22/1993	500	7,500	--	ND	ND	ND	1.2		
SS-17-1		1	7/22/1993	**75**	**12,000**	--	ND	ND	ND	ND		--
SS-17-3		3	7/22/1993	ND	31	--	ND	ND	ND	ND		--
SS-18-1		1	7/22/1993	**760**	**11,000**	--	ND	ND	0.80	0.58		--
SS-18-3		3	7/22/1993	**1,300**	**9,900**	--	ND	ND	1.3	1.4		--
SS-19-1'		1	1/13/1994	ND	130	70	ND	ND	ND	ND		--
SS-19-3'		3	1/13/1994	ND	1,500	330	ND	ND	ND	ND		--
SS-20-1'		1	1/12/1994	ND	16	130	ND	ND	ND	ND		--
SS20-3 1/2'		3.5	1/12/1994	ND	ND	ND	ND	ND	ND	ND		--
SS-21-2'		2	1/13/1994	ND	12	48	ND	ND	ND	ND		--
SS21-6'		6	1/13/1994	ND	19	72	ND	ND	ND	ND		--
SS22-1'		1	1/14/1994	ND	66	170	ND	ND	ND	ND		--
SS22-6 1/2'		6.5	1/14/1994	370	270	210	ND	0.29	1.3	1.2		--
SS-23-1		1	1/12/1994	ND	170	510	ND	ND	ND	ND		--
SS23-3'		3	1/12/1994	ND	ND	ND	ND	ND	ND	ND		--
SS24-1		1	1/12/1994	ND	48	130	ND	ND	ND	ND		--

Table 5

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Summary of Historical Soil Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well/ Boring ID	Location/ Yard	Sample Depth	Sample Date	TPH-GRO	TPH-DRO	TPH-HO	B	T	E	X	Total As	Total Pb
EPA Hot Spot Criteria C Yard				**20,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
EPA Hot Spot Criteria A, B, D, & E Yards				**10,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
SS24-3 1/2'		3.5	1/12/1994	ND	ND	1,500	ND	ND	ND	ND		--
SS25-1'		1	1/12/1994	10	800	510	ND	ND	ND	ND		--
SS25-3 1/2'		3.5	1/12/1994	6	310	61	ND	ND	ND	ND		--
SS26-1'		1	1/14/1994	ND	17	ND	ND	ND	ND	ND		--
SS26-5 1/2'		5.5	1/14/1994	8	840	100	ND	ND	ND	ND		--
SS27-1'		1	1/14/1994	ND	130	ND	ND	ND	ND	ND		--
SS27-3 1/2'		3.5	1/14/1994	220	9,600	ND	ND	ND	ND	ND		--
SS28-1'		1	1/14/1994	98	770	ND	ND	ND	ND	0.12		--
SS28-3 1/2'		3.5	1/14/1994	**4,900**	**15,000**	ND	ND	1.4	8.6	22		--
SS29-1'		1	1/14/1994	ND	ND	ND	ND	ND	ND	ND		--
SS29-3 1/2'		3.5	1/14/1994	ND	ND	ND	ND	ND	ND	ND		--
SS-30-1'		1	1/14/1994	ND	37	51	ND	ND	ND	ND		--
SS30-3 1/2'		3.5	1/14/1994	ND	170	93	ND	ND	ND	ND		--
SS-31-1'		1	1/13/1994	ND	3,600	ND	ND	ND	ND	ND		--
SS-31-8'		8	1/13/1994	7,700	22	86	11	21	62	510		--
SS-32-2'		2	1/13/1994	ND	ND	ND	ND	ND	ND	ND		--
SS32-8 1/2'		8.5	1/13/1994	ND	ND	ND	ND	ND	ND	ND		--
SS33-2 1/2'		2.5	1/13/1994	ND	85	330	ND	ND	ND	ND		--
SS33-8 1/2'		8.5	1/13/1994	ND	ND	ND	ND	ND	ND	ND		--
SS34-3'		3	1/13/1994	ND	19	91	ND	ND	ND	ND		--
SS34-8'		8	1/13/1994	ND	ND	ND	ND	ND	ND	ND		--
B1-6.5	A	6.5	9/5/1995	5,000	980	63	8.1	18	23	260		--
B1-16.5	A	16.5	9/5/1995	7.1	13	45	0.080	ND	0.082	0.61		--
B2-8.5	A	8.5	9/5/1995	**19,000**	**4,000**	**690**	43	28	240	11,000		--
B2-16.5	A	16.5	9/5/1995	ND	13	66	ND	ND	ND	ND		--
B3-6.5	B	6.5	9/5/1995	--	8,500	560	--	--	--	--		--
B3-16.5	B	16.5	9/5/1995	--	14	30	--	--	--	--		--

Table 5

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Summary of Historical Soil Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well/ Boring ID	Location/ Yard	Sample Depth	Sample Date	TPH-GRO	TPH-DRO	TPH-HO	B	T	E	X	Total As	Total Pb
EPA Hot Spot Criteria C Yard				**20,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
EPA Hot Spot Criteria A, B, D, & E Yards				**10,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
B4-3.5	B	3.5	9/5/1995	ND	920	780	ND	ND	ND	ND		--
B4-16.5	B	16.5	9/5/1995	ND	10	31	ND	ND	ND	ND		--
B5-5	C	5	9/5/1995	430	7,200	160	ND	ND	ND	ND		--
B5-16.5	C	16.5	9/5/1995	15	150	32	ND	ND	ND	ND		--
B6-4	C	4	9/5/1995	--	9,700	490	--	--	--	--		--
B6-16.5	C	16.5	9/5/1995	--	24	36	--	--	--	--		--
B-3	B	0.25	12/30/1998	ND	ND	ND	--	--	--	--		--
B-5	B	0.25	12/30/1998	ND	93	144	--	--	--	--		--
B-11	B	0.25	12/30/1998	ND	548	1,410	--	--	--	--		--
B-12	B	0.25	12/30/1998	ND	ND	>100	--	--	--	--		--
B-14	B	0.25	12/30/1998	ND	359	759	--	--	--	--		--
C-1	C	0.25	12/30/1998	ND	222	366	--	--	--	--		--
C-2	C	0.25	12/30/1998	ND	ND	>100	--	--	--	--		--
C-4	C	0.25	12/30/1998	ND	76	267	--	--	--	--		--
C-6	C	0.25	12/30/1998	ND	ND	>100	--	--	--	--		--
C-7	C	0.25	12/30/1998	ND	166	184	--	--	--	--		--
C-8	C	0.25	12/30/1998	ND	ND	>100	--	--	--	--		--
C-9	C	0.25	12/30/1998	ND	460	196	--	--	--	--		--
C-12	C	0.25	12/30/1998	ND	624	835	--	--	--	--		--
MW-19	D	5	10/4/2000	ND	ND	ND	ND	ND	ND	ND	--	--
MW-20	C	2	10/4/2000	ND	ND	ND	ND	ND	ND	ND	--	--
MW-21	B	1	10/4/2000	ND	420	400	ND	ND	ND	ND	--	--
MW-21	B	5	10/4/2000	ND	**20,000**	ND	ND	ND	4	15	--	--
MW-22		--	10/4/2000	--	--	--	--	--	--	--	--	--
AS-1		5	10/4/2000	--	2,300	160	--	--	--	--	--	--
AS-2		5	10/4/2000	ND	ND	ND	ND	ND	ND	ND	--	--
B-7B	B	0.5		--	--	--	--	--	--	--	14	220
C-5B	C	0.5		--	--	--	--	--	--	--	14	100
C-9B	C	0.5		--	--	--	--	--	--	--	16	270

Table 5

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2720 13th Avenue Southwest
Seattle, Washington

Well/ Boring ID	Location/ Yard	Sample Depth	Sample Date	TPH-GRO	TPH-DRO	TPH-HO	B	T	E	X	Total As	Total Pb
EPA Hot Spot Criteria C Yard				**20,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
EPA Hot Spot Criteria A, B, D, & E Yards				**10,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
C-B1-1	B	0.5	5/2/2002	--	--	--	--	--	--	--	15.7	916
C-B1-2	B	0.5	5/2/2002	--	--	--	--	--	--	--	2.55	50.6
C-B2-1	B	0.5	4/23/2002	--	--	--	--	--	--	--	3.12	36.9
C-B3-1	B	0.5	4/24/2002	--	--	--	--	--	--	--	65.7	**1,320**
C-B3-1.1	B	1	4/26/2002	--	--	--	--	--	--	--	2.18	22.5
P-B7-1	B	2.5	5/22/2002	49.0	154	82.4	ND	ND	ND	0.259	--	--
P-B7-2	B	3	5/22/2002	ND	205	52.9	ND	ND	ND	ND	--	--
P-B7-3	B	4	5/22/2002	**2,600**	**11,200**	ND	ND	ND	1.57	19.1	--	--
P-B7-4	B	3	5/22/2002	1,070	5,010	ND	ND	ND	ND	6.27	--	--
P-B7-5	B	2.5	5/22/2002	ND	207	88.6	ND	ND	ND	ND	--	--
P-B7-6	B	4	5/22/2002	ND	278	197	ND	ND	ND	ND	--	--
P-C1-1	C	1.5	5/24/2002	ND	159	59.4	ND	ND	ND	ND	--	--
P-C1-2	C	2	5/24/2002	ND	221	40.4	ND	ND	ND	ND	--	--
P-C2-1	C	1.5	5/13/2002	5.44	255	522	ND	ND	ND	ND	--	--
P-C2-2	C	2	5/13/2002	7.21	97	205	ND	0.0563	ND	0.165	--	--
P-C7-1	C	3.5	5/31/2002	14.2	775	106	ND	ND	ND	ND	--	--
P-C7-2	C	3	5/31/2002	ND	16.9	ND	ND	ND	ND	ND	--	--
P-C7-3	C	3	5/31/2002	**562**	**21,100**	ND	ND	ND	ND	2.04	--	--
P-C10-1	C	2	5/24/2002	ND	42.9	56.0	ND	ND	ND	ND	--	--
P-C10-2	C	1.5	5/24/2002	ND	46.1	ND	ND	ND	ND	ND	--	--
P-C10-3	C	2	5/24/2002	ND	49.1	ND	ND	ND	ND	ND	--	--
P-C12-1	C	4	5/31/2002	30.0	334	311	ND	ND	ND	0.177	--	--
P-C12-2	C	4	5/31/2002	15.9	17,800	1480	ND	ND	ND	ND	--	--
P-C12-3	C	3	5/31/2002	--	--	--	--	--	--	--	--	--
P-C12-4	C	2.5	5/31/2002	ND	15,400	1820	ND	ND	ND	ND	--	--
P-C12-5	C	4	6/7/2002	ND	ND	ND	ND	ND	ND	ND	--	--
P-C12-6	C	3.5	6/7/2002	6.12	93.4	26.4	ND	ND	ND	ND	--	--
P-C12-7	C	3.5	6/7/2002	ND	ND	ND	ND	ND	ND	ND	--	--
P-C12 Overburden	C	1	6/7/2002	ND	202	164	ND	ND	ND	ND	--	--
P-C12 Overburden 2	C	1	6/10/2002	35.6	970	101	0.302	1.58	0.471	3.03	--	--
P-C12 Overburden 3	C	1	6/10/2002	ND	772	200	ND	ND	ND	ND	--	--
P-C13-1	C	3.5	5/10/2002	**6,140**	**23,800**	ND	11.5	11.2	83.8	54.2	--	--

Table 5

Summary of Historical Soil Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well/ Boring ID	Location/ Yard	Sample Depth	Sample Date	TPH-GRO	TPH-DRO	TPH-HO	B	T	E	X	Total As	Total Pb
EPA Hot Spot Criteria C Yard				**20,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
EPA Hot Spot Criteria A, B, D, & E Yards				**10,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
P-C13-2	C	3.5	5/10/2002	420	11,400	ND	ND	0.261	ND	1.12	--	--
P-C13-3	C	4	5/10/2002	5,150	23,500	1400	13.8	25.9	75.8	470	--	--
P-C13-4	C	2.5	5/10/2002	9.15	13,900	ND	0.0890	ND	ND	ND	--	--
P-C13-5	C	3	5/10/2002	3,570	15,500	ND	10.3	21.7	33.4	274	--	--
P-C13-6	C	2.5	5/17/2002	1,140	10,300	ND	6.68	13.1	16.4	89.8	--	--
P-C13-7	C	3	5/17/2002	6,180	24,900	ND	16.5	9.77	87.8	506	--	--
P-C13-8	C	3.5	5/17/2002	ND	2,350	ND	ND	ND	ND	ND	--	--
P-C13-9	C	2.5	5/17/2002	24.4	4,240	ND	ND	ND	ND	ND	--	--
P-C13-10	C	2	5/17/2002	896	19,900	ND	ND	ND	ND	ND	--	--
P-C13-11	C	2	5/24/2002			28.5	ND	ND	ND	ND	--	--
P-C13-12	C	2	5/24/2002	235	18,500	ND	ND	ND	ND	1.15	--	--
P-C13-13	C	3	5/24/2002	511	14,900	ND	ND	ND	ND	1.36	--	--
P-C13-14	C	3	5/24/2002	**1,160**	**13,600**	ND	1.42	ND	4.13	52.6	--	--
P-C14-1	C	1.5	5/13/2002	ND	32.1	57.1	ND	ND	ND	ND	--	--
P-C14-2	C	1.5	5/13/2002	**2,680**	**9,270**	ND	ND	11.7	9.62	44.9	--	--
P-C14-3	C	2.5	5/13/2002	108	2,050	ND	ND	0.0747	0.145	1.42	--	--
P-C14-4	C	1.5	5/13/2002	9.49	190	312	ND	ND	ND	0.140	--	--
P-C14-5	C	2	5/13/2002	**3,650**	**63,200**	ND	1.78	20.2	15.6	76.2	--	--
P-C15-1	C	1.5	5/13/2002	ND	14.7	56.7	ND	ND	ND	ND	--	--
P-C15-2	C	1.5	5/13/2002	ND	ND	ND	ND	ND	ND	ND	--	--
P-C15-3	C	2	5/13/2002	ND	ND	ND	ND	ND	ND	ND	--	--
P-C15-4	C	1.5	5/13/2002	ND	ND	ND	ND	ND	ND	ND	--	--
P-C15-5	C	1.5	5/13/2002	ND	59.3	207	ND	ND	ND	ND	--	--
MW-23	A	5	9/30/2003	ND	ND	ND	ND	ND	ND	ND	--	--
MW-24	A	5	9/30/2003	24	ND	ND	0.0013	ND	0.062	0.27	--	--
MW-25	A	5	9/30/2003	ND	ND	ND	ND	ND	ND	ND	--	--
SS-PC-01	B	2	5/15/2007	350	--	--	ND	ND	ND	ND	--	--

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Summary of Historical Soil Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
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Seattle, Washington

Well/ Boring ID	Location/ Yard	Sample Depth	Sample Date	TPH-GRO	TPH-DRO	TPH-HO	B	T	E	X	Total As	Total Pb
EPA Hot Spot Criteria C Yard				**20,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
EPA Hot Spot Criteria A, B, D, & E Yards				**10,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
SS-NS-01	B	0.5	5/15/2007	460	--	--	ND	ND	ND	ND	--	--
SS-NB-01	B	0.3	5/15/2007	91	--	--	ND	ND	ND	ND	--	--
SS-T315-01	B	1.5	5/15/2007	620	--	--	ND	ND	ND	2.3	--	--
SS-SB-01	B	0.3	5/15/2007	170	--	--	ND	ND	ND	0.32	--	--
SS-SB-02	B	0.5	5/15/2007	90	--	--	ND	ND	ND	0.26	--	--
CB-A-1-8-9		8	8/11/2009	800	470	120	0.80	<0.210	23	20	--	--
CB-A-1-14-15		15	8/11/2009	9.0	<25	<100	0.022	<0.010	0.15	0.150	--	--
CB-A-2-8-9		8	8/11/2009	56	420	290	<0.049	<0.049	<0.049	<0.049	--	--
CB-A-2-14-15		15	8/11/2009	<5.0	<25	<100	<0.0050	<0.0050	<0.0050	<0.0050	--	--
CB-A-3-8-9		8	8/11/2009	1,800	320	270	7.2	<0.600	72	100	--	--
CB-A-3-14-15		15	8/11/2009	22	<25	<100	0.16	<0.025	0.40	0.34	--	--
CB-A-4-8-9		8	8/11/2009	1,401	980	380	2.3	<0.230	29	44	--	--
CB-A-4-14-15		15	8/11/2009	496	8.1	<25	0.20	<0.012	0.23	0.21	--	--
CB-A-4-20		20	8/11/2009	38	74.0	<25	0.22	<0.028	1.6	2.4	--	--
CB-A-5-8-9		8	8/11/2009	980	380	290	<0.11	<0.11	<0.11	0.27	--	--
CB-A-5-14-15		15	8/11/2009	8.1	<25	<100	0.0063	<0.0055	<0.0055	0.0074	--	--
CB-A-5-20		20	8/11/2009	--	--	--	--	--	--	--	--	--
CB-A-6-8-9		8	8/11/2009	310	880	150	<0.53	<0.53	15	79	--	--
CB-A-6-14-15		15	8/11/2009	<5.0	<25	<100	<0.0055	<0.0055	<0.0055	0.0066	--	--
CB-A-6-20		20	8/11/2009	--	--	--	--	--	--	--	--	--
CB-A-7-8-9		8	8/11/2009	2,500	1,700	140	15	2.6	64	240	--	--
CB-A-7-14-15		15	8/11/2009	9.7	<25	<100	0.058	<0.010	0.033	0.081	--	--
SB-B1-9	W of B (TMW-B1)	9	10/21/2009	540	820	3,100	<0.100	<0.100	6.5	14	--	--
SB-B1-10	W of B	10	10/21/2009	1,500	180	280	<0.250	<0.250	5.9	15	--	--
SB-B1-15	W of B	15	10/21/2009	<5.0	<25	<100	<0.0050	<0.0050	<0.0050	<0.0050	--	--
MW-26-6	NW of A	6	10/4/2011	<5.0	<5.0	<10	<0.01	<0.01	<0.01	<0.01	--	--

Table 5

ARCADIS

Summary of Historical Soil Results
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well/ Boring ID	Location/ Yard	Sample Depth	Sample Date	TPH-GRO	TPH-DRO	TPH-HO	B	T	E	X	Total As	Total Pb
EPA Hot Spot Criteria C Yard				**20,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
EPA Hot Spot Criteria A, B, D, & E Yards				**10,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
MW-26-10	NW of A	10	10/4/2011	<5.0	<5.0	<10	<0.0087	<0.0087	<0.0087	<0.0087	--	--
MW-26-15	NW of A	15	10/4/2011	<5.0	<5.0	<10	<0.0081	<0.0081	<0.0081	<0.0081	--	--
TMW-E1-6	W of E	6	10/4/2011	<5.0	<5.0	<10	<0.0096	<0.0096	<0.0096	<0.0096	--	--
TMW-E1-10	W of E	10	10/4/2011	<5.0	<5.0	<10	<0.0096	<0.0096	<0.0096	<0.0096	--	--
TMW-E1-12	W of E	12	10/4/2011	<5.0	<5.0	<10	<0.0083	<0.0083	<0.0083	<0.0083	--	--
TMW-E1-15	W of E	15	10/4/2011	<5.0	<5.0	<10	<0.0083	<0.0083	<0.0083	<0.0083	--	--
TMW-E2-6	W of E	6	10/4/2011	5,000	4,600	590	<1.6	<1.6	<1.6	<1.6	--	--
TMW-E2-10	W of E	10	10/4/2011	2,500	1,500	240	<1.6	<1.6	<1.6	<1.6	--	--
TMW-E2-15	W of E	15	10/4/2011	<5.0	<5.0	<10	<0.33	<0.33	<0.33	<0.33	--	--
TMW-E3-6	W of E	6	10/4/2011	<5.0	210	790	<0.0098	0.01	<0.0098	0.022	--	--
TMW-E3-10	W of E	10	10/4/2011	16	34	96	0.045	<0.0078	0.03	<0.0078	--	--
TMW-E3-12	W of E	12	10/4/2011	24	54	210	0.057	<0.0084	0.045	0.023	--	--
TMW-E3-15	W of E	15	10/4/2011	<5.0	<5.0	<10	0.038	<0.0085	<0.019	<0.0085	--	--
TMW-E4-6	W of E	6	10/4/2011	5	71	370	0.013	<0.0083	0.0087	<0.0083	--	--
TMW-E4-10	W of E	10	10/4/2011	<5.0	<5.0	<10	<0.0084	<0.0084	<0.0084	<0.0084	--	--
TMW-E4-12	W of E	12	10/4/2011	<5.0	<5.0	<10	<0.0088	<0.0088	<0.0088	<0.0088	--	--
TMW-E4-15	W of E	15	10/4/2011	<5.0	<5.0	<10	<0.0088	<0.0088	<0.0088	<0.0088	--	--
MW-305	South of B	8-9.5	11/1/2011	6.86	<12	<24	1,290	107	489	567	--	--
MW-305D	South of B	8-9.5	11/1/2011	6.04	<12	<24	757	<340	117	<670	--	--
MW-306	South of B	7.5-9	11/1/2011	2,640	35.4	99.5	<18,000	<18,000	28,000	<36,000	--	--
AUS-SB-1 (1.5-2)		1.5-2.0	8/28/2012	2,000	3,200	190	--	--	--	--	--	--
AUS-SB-1 (5-5.5)		5.0-5.5	8/28/2012	960	4,600	330	--	--	--	--	--	--
AUS-SB-1 (9.5-10)		9.5-10.0	8/28/2012	<5.0	<25	<100	--	--	--	--	--	--
AUS-SB-2 (1.5-2)		1.5-2.0	8/28/2012	<5.0	<25	<100	--	--	--	--	--	--
AUS-SB-2 (6.5-7)		6.5-7.0	8/28/2012	<5.0	<25	<100	--	--	--	--	--	--
AUS-SB-2 (9.5-10)		9.5-10.0	8/28/2012	<5.0	<25	<100	--	--	--	--	--	--
AUS-SB-3 (1.5-2)		1.5-2.0	8/28/2012	<5.0	<25	<100	--	--	--	--	--	--
AUS-SB-3 (4.5-5)		4.5-5.0	8/28/2012	1,300	940	<100	--	--	--	--	--	--

Table 5

Summary of Historical Soil Results
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2720 13th Avenue Southwest
Seattle, Washington

Well/ Boring ID	Location/ Yard	Sample Depth	Sample Date	TPH-GRO	TPH-DRO	TPH-HO	B	T	E	X	Total As	Total Pb
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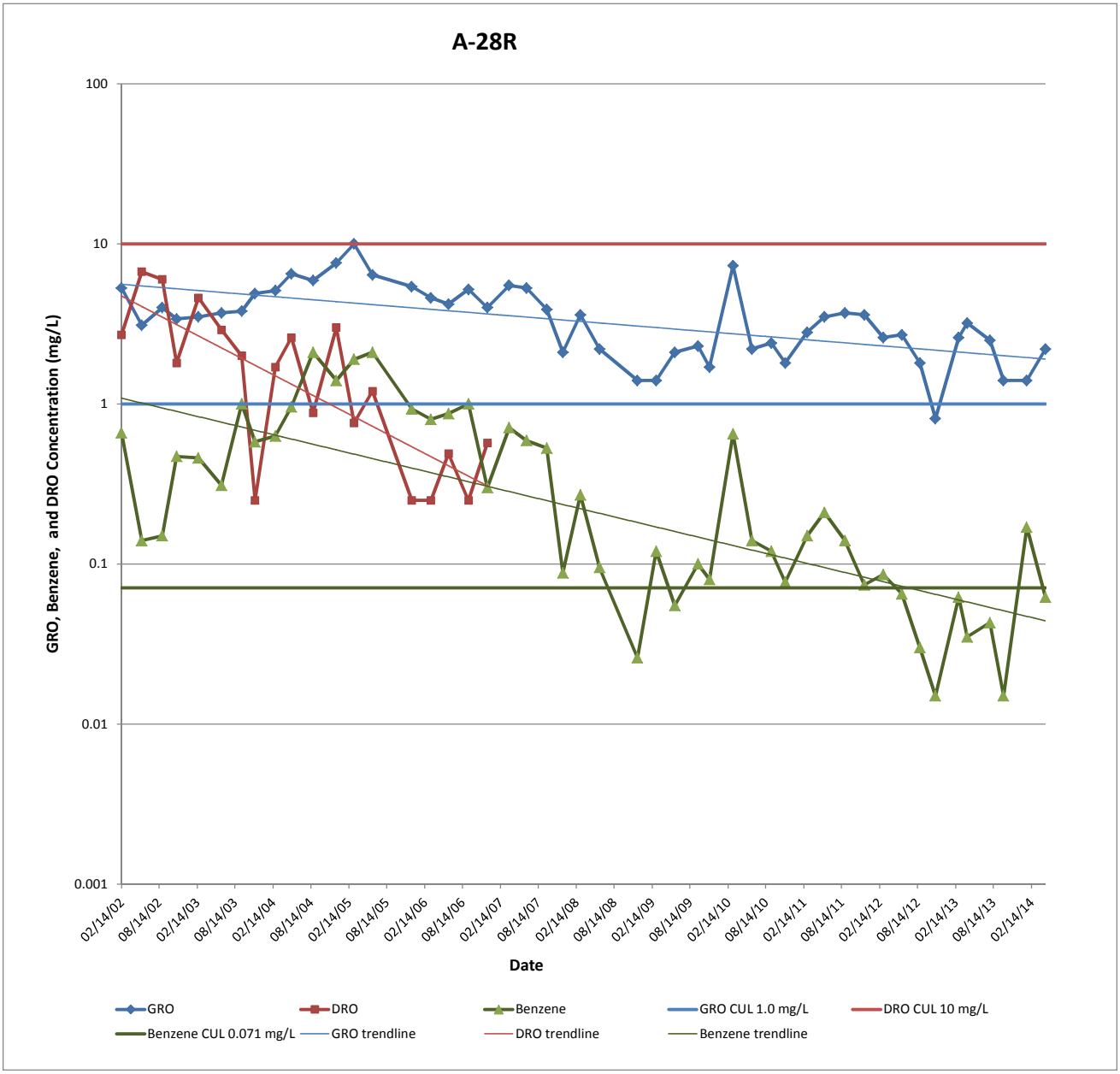
EPA Hot Spot Criteria A, B, D, & E Yards				**10,000 mg/kg**							**32.6 mg/kg**	**1,000 mg/kg**
AUS-SB-3 (9.5-10)		9.5-10.0	8/28/2012	<5.0	<25	<100	--	--	--	--	--	--
AUS-SB-4 (1.5-2)		1.5-2.0	8/28/2012	<5.0	100	140	--	--	--	--	--	--
AUS-SB-4 (4.5-5)		4.5-5.0	8/28/2012	19	48	<100	--	--	--	--	--	--
AUS-SB-4 (9.5-10)		9.5-10.0	8/28/2012	<5.0	<25	<100	--	--	--	--	--	--
AUS-SB-5 (1.5-2)		1.5-2.0	8/28/2012	44	<25	<100	--	--	--	--	--	--
AUS-SB-5 (7.5-8)		7.5-8.0	8/28/2012	5.0	<25	<100	--	--	--	--	--	--
AUS-SB-5 (9.5-10)		9.5-10.0	8/28/2012	<5.0	<25	<100	--	--	--	--	--	--

Notes:
B = benzene
T = toluene
E = ethylbenzene
X = xylene
mg/kg = milligrams per kilogram
ND = not detected
Total As = total arsenic
Total Pb = total lead
TPH-DRO = total petroleum hydrocarbon-diesel range organics
TPH-GRO = total petroleum hydrocarbon-gasoline range organics
TPH-HO = total petroleum hydrocarbon-heavy oil

< = Denotes compound was not detected at designated detection limit
Bold = Concentration detected above cleanup criteria
Bold = Detected concentration was assumed to have been overexcavated

GRAPHS



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HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
PERIODIC REVIEW

A-28R CONSTITUENT TREND GRAPHS

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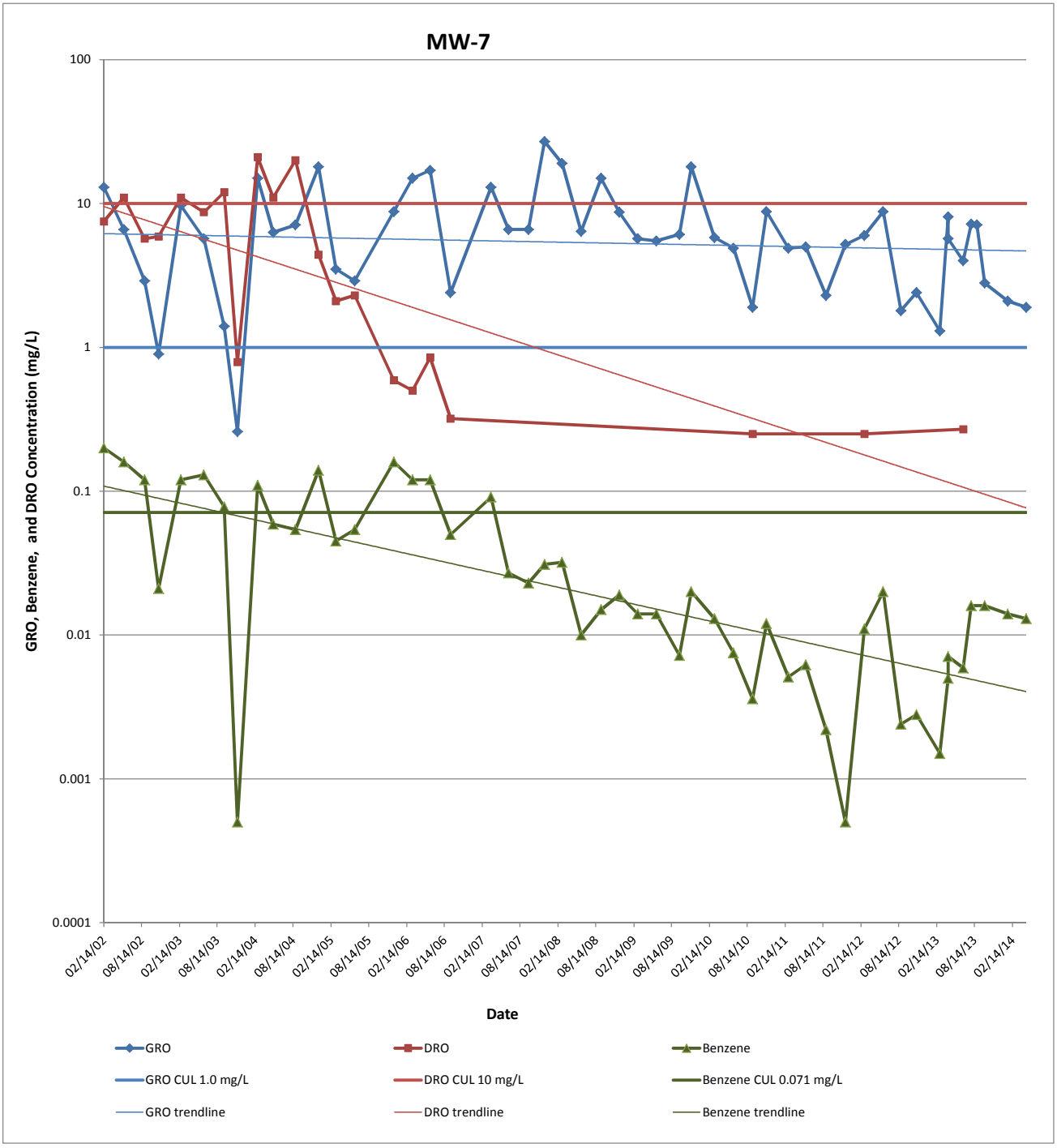

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2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
PERIODIC REVIEW

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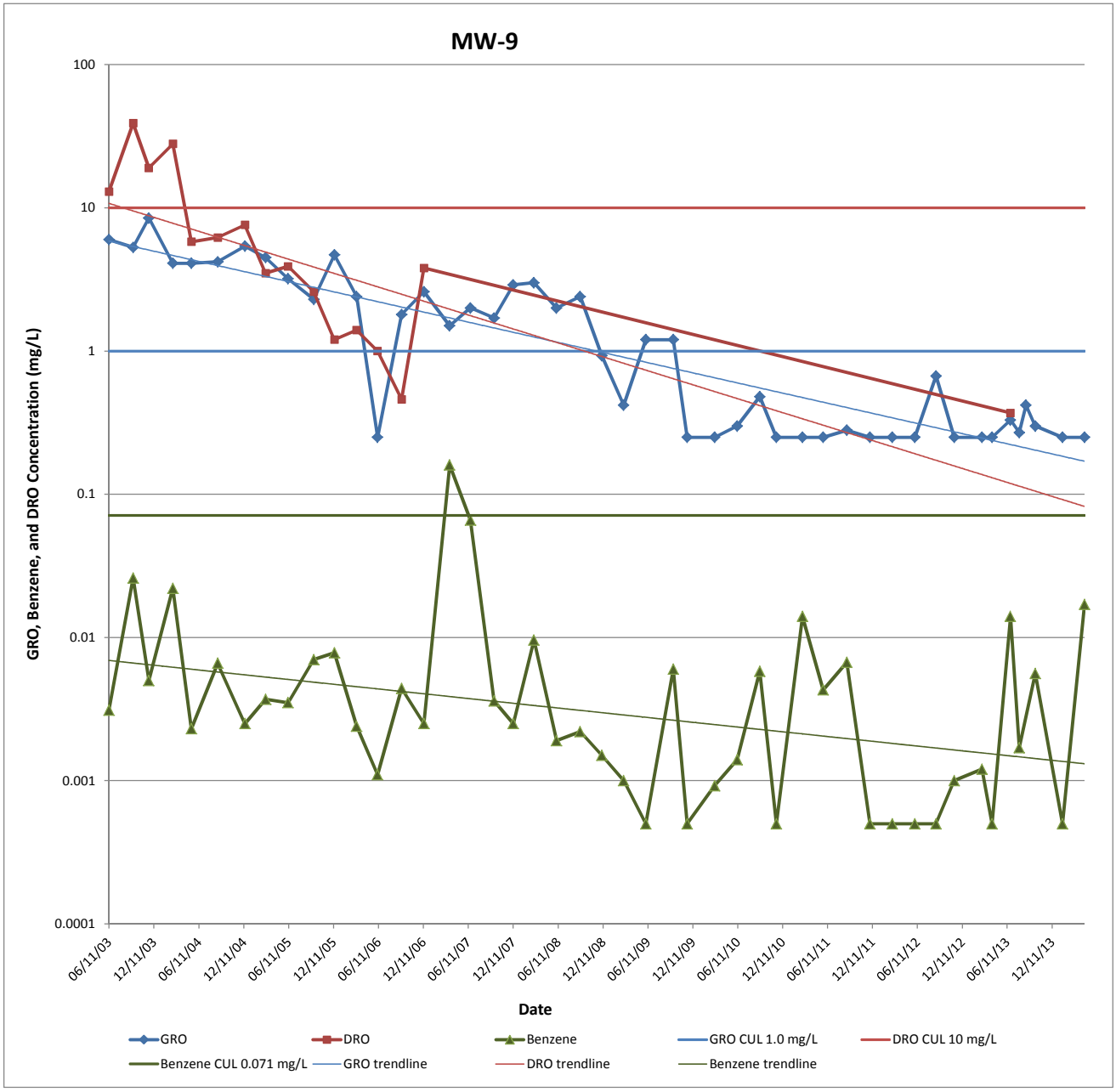
GRAPH
2



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GRAPH
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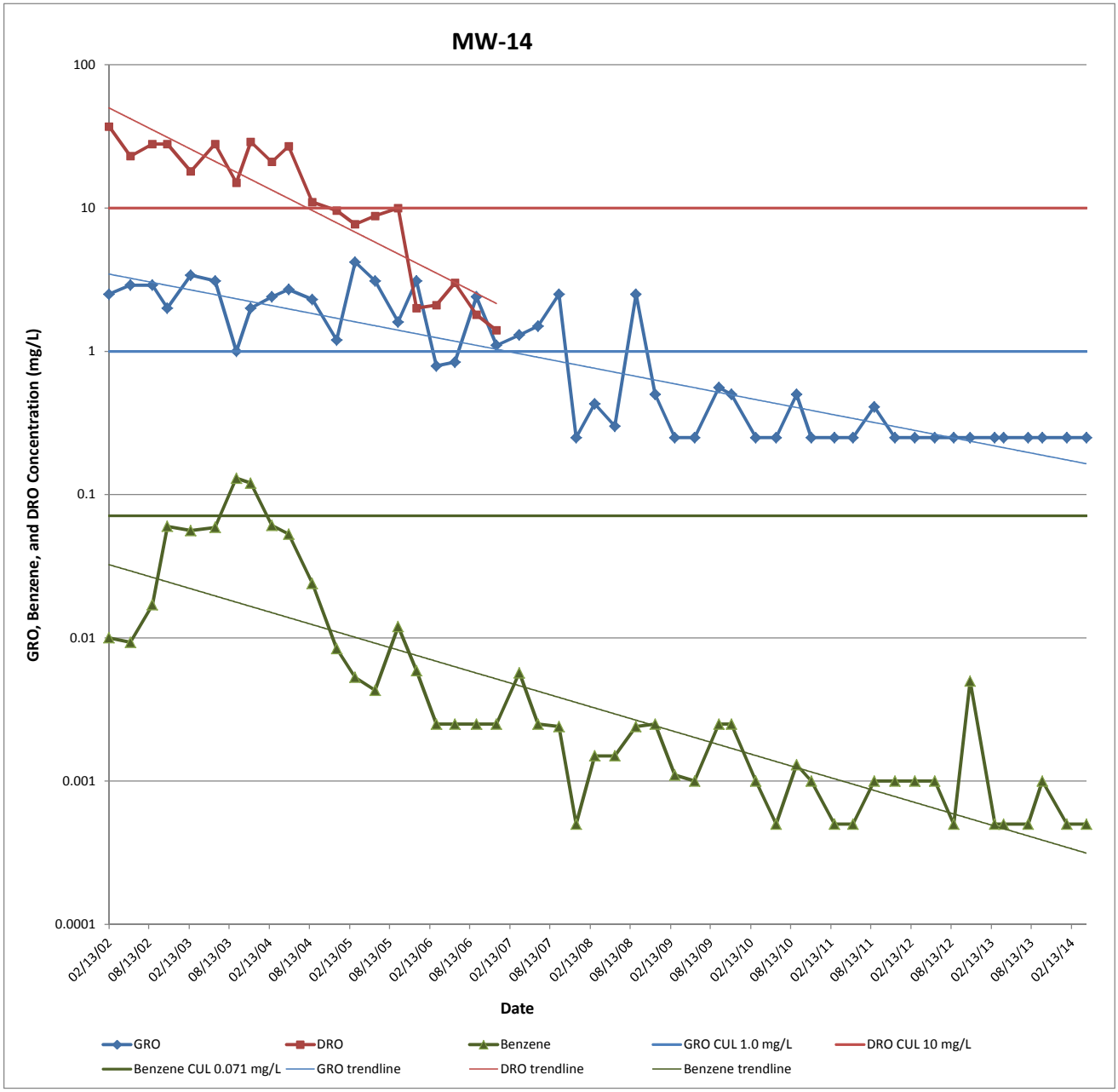

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HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
PERIODIC REVIEW

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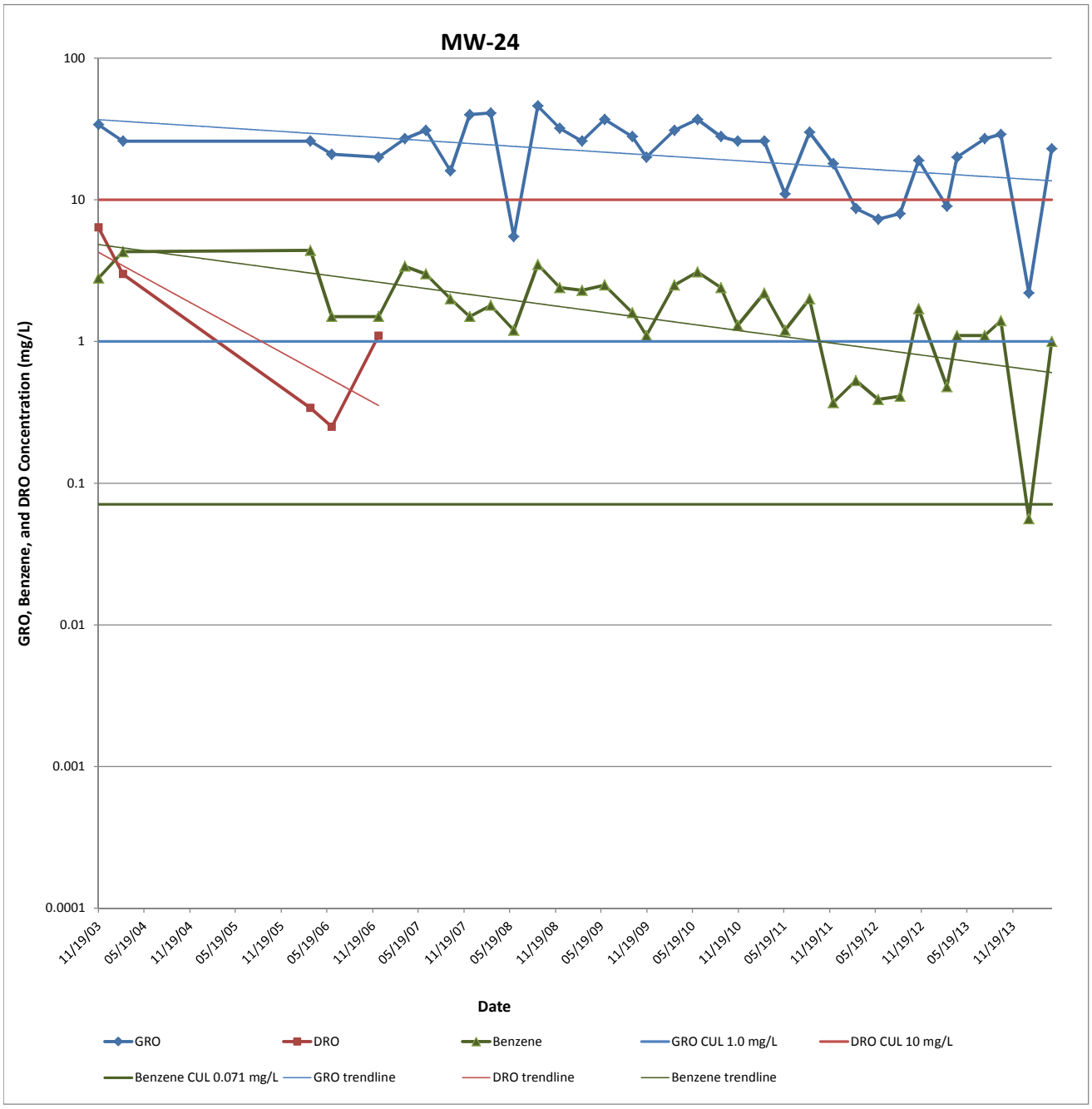

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HARBOR ISLAND TERMINAL
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APPENDIX A

Consent Decree Number 00-2-07760-2SEA

Including:
Exhibit B – Cleanup Action Plan
Exhibit D – Restrictive Covenant

APPENDIX A

CONSENT DECREE
No. 00-2-07760-2SEA

with

EXHIBIT B. Cleanup Action Plan
EXHIBIT D. Restrictive Covenant

GATX Sit 6.5.2.1
TCP

IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON
KING COUNTY

STATE OF WASHINGTON,
DEPARTMENT OF ECOLOGY,

Plaintiff,

v.

GATX TERMINALS CORPORATION
Defendant.

No. 00-2-07760-2SEA

CONSENT DECREE

TABLE OF CONTENTS

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I. INTRODUCTION

A. In entering into this Consent Decree (Decree), the mutual objective of the Washington State Department of Ecology (Ecology), and GATX Terminals Corporation (GATX) is to provide for remedial action at a facility where there has been a release or threatened release of hazardous substances. This Decree requires GATX to undertake the following remedial action(s):

1. Implement the Cleanup Action Plan (CAP)
2. Provide for public participation
3. Provide Remedial Design (RD)
4. Implement the Groundwater Compliance Monitoring that includes:
   a. Protection monitoring
   b. Performance monitoring
   c. Confirmational monitoring

Ecology has determined that these actions are necessary to protect public health and the environment.

B. The Complaint in this action is being filed simultaneously with this Decree. An answer has not been filed, and there has not been a trial on any issue of fact or law in this case. However, the parties wish to resolve the issues raised by Ecology's Complaint. In addition, the parties agree that settlement of these matters without litigation is reasonable and in the public interest and that entry of this Decree is the most appropriate means of resolving these matters.

C. In signing this Decree, GATX agrees to its entry and agrees to be bound by its terms.

D. By entering into this Decree, the parties do not intend to discharge any other party from any liability it may have with respect to matters alleged in the Complaint. The parties retain the right to seek contribution, indemnity, reimbursement or other recovery, in whole or in part, from any other persons for sums expended under this Decree.

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E. This Decree is not an admission of and shall not be construed as proof of liability or responsibility for any releases of hazardous substances or cost for remedial action nor an admission of any facts; provided, however, that GATX shall not challenge the jurisdiction of Ecology in any proceeding to enforce this Decree. GATX had assumed the obligations of Shell Oil Company under Agreed Order No. DE 92 TC-N159 (Agreed Order), and GATX has fully satisfied all requirements of the Agreed Order. This Decree supercedes Agreed Order No. DE-92 TC-N 159F. The Court is fully advised of the reasons for entry of this Decree, and good cause having been shown: IT IS HEREBY ORDERED, ADJUDGED, AND DECREED AS FOLLOWS:

II. JURISDICTION

A. This Court has jurisdiction over the subject matter and over the parties pursuant to Chapter 70.105D RCW, the Model Toxics Control Act (MTCA), and venue is proper in King County.

B. Authority is conferred upon the Washington State Attorney General by RCW 70.105D.040(4)(a) to agree to a settlement with any potentially liable person if, after public notice and hearing, Ecology finds the proposed settlement would lead to a more expeditious cleanup of hazardous substances. RCW 70.105D.040(4)(b) requires that such a settlement be entered as a consent decree issued by a court of competent jurisdiction.

C. Ecology has determined that a release or threatened release of hazardous substances has occurred at the Site that is the subject of this Decree.

D. Ecology has given notice to GATX, as set forth in RCW 70.105D.020(15), of Ecology's determination that GATX is a potentially liable person for the Site and that there has been a release or threatened release of hazardous substances at the Site.

E. The actions to be taken pursuant to this Decree are necessary to protect public health, welfare, and the environment, AND TO COMPLY WITH MTCA AND CERCLA.

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F. GATX has agreed to undertake the actions specified in this Decree and consents to the entry of this Decree under the MTCA.

III. PARTIES BOUND

This Decree shall apply to and be binding upon the signatories to this Decree (parties), their successors and assigns. The undersigned representative of each party hereby certifies that he or she is fully authorized to enter into this Decree and to execute and legally bind such party to comply with the Decree. GATX agrees to undertake all actions required by the terms and conditions of this Decree and not to contest state jurisdiction to enforce this Decree. No change in ownership or corporate status shall alter the responsibility of GATX under this Decree. GATX shall provide a copy of this Decree to all agents, contractors and subcontractors retained to perform work required by this Decree and shall ensure that any contract for such work will be in compliance with this Decree.

IV. DEFINITIONS

Except as specified herein, all definitions in WAC 173-340-200 apply to the terms in this Decree.

A. Site: The Site, owned and operated by GATX, is located at 2720 13th Avenue SW, Seattle, Washington, 98124 and is divided into five distinct areas known as A, B, C, D and E Yards on Harbor Island (Site). The Site is part of the Tank Farm Operable Unit One (OU1) for the Harbor Island Superfund Site. The Site is more particularly described in Exhibit A to this Decree which is a detailed site diagram.

B. Parties: Refers to the Washington State Department of Ecology and GATX.

C. GATX: Refers to GATX Terminals Corporation.

D. Consent Decree or Decree: Refers to this Consent Decree and each of the exhibits to the Decree. All exhibits are by this reference incorporated herein, and are integral and enforceable

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parts of this Consent Decree. The terms "Consent Decree" or "Decree" shall include all exhibits to the Consent Decree.

V. STATEMENT OF FACTS

Ecology makes the following finding of facts without any express or implied admissions by GATX.

A. Shell Oil Company owned the Site and operated a petroleum storage and distribution facility there from 1944 until 1994. In 1994, GATX acquired the Site and began to operate the Terminal located there. The Site is divided into five distinct areas known as the A, B, C, D, and E Yards. Two fuel tanker truck loading racks and an administrative office and maintenance building are located in the A Yard. The B and C Yards are used as bulk fuel storage areas. Fifteen above-ground storage tanks are located on the B Yard and six are located in the C Yard. The D Yard is situated between the B and C Yards. Also, the D Yard contains several maintenance buildings and material handling areas. The E Yard once served as a fuel loading rack facility but is currently leased to Chevron Oil Company. B. Ecology files contain the following report: Remedial Investigation, Shell Oil Company Harbor Island Terminal, Seattle, Washington, PACIFIC Environmental Group, Inc., Final 1994 RI Report. Based on the RI Report, Ecology finds as follows:

1. Free-phase hydrocarbons are confirmed to be present on the Site situated at the top of the water table in portions of the A Yard, B Yard and C Yard.
2. Residual hydrocarbons exceeding MTCA methods A and B matrix concentrations are confirmed to be present in the soil at the Site beneath southern portions of the B Yard, the northern portions of the A Yard, and the southern half of the C Yard.
3. Dissolved petroleum hydrocarbons exceeding the Surface Water Quality Standards are confirmed to be present in the groundwater at the Site beneath

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portions of the, A Yard, B Yard, and C Yard. Dissolved lead and arsenic exceeding the Surface Water Quality Standards are confirmed to be present in the groundwater at the Site beneath portions of the B Yard and C Yard.

4. Lead and arsenic above Method A concentrations are confirmed to be present in the surface soil at the B and C Yards.

C. Ecology files contain the following report: Final Focused Feasibility Study Report; GATX Terminal Corporation Harbor Island Terminal, Seattle, Washington, PACIFIC Environmental Group, Inc., April 9, 1997 (FFS Report). Based on the FFS Report, Ecology finds as follows:

1. GATX identified a preferred remedy after evaluating other alternative remedies to address the hazardous substances located on site. Ecology concurs that the remedy preferred by GATX is appropriate. The preferred remedy consists of:

a. Active and passive point-source extraction of floating product, partial-penetrating down-gradient vertical barrier to stop product migration, or combinations of both;

b. Dual phase product extraction and air sparging;

c. Excavate to the extent technically practicable, accessible TPH hot spots using the action levels of 10,000 mg/kg in the C Yard subsurface soils affected by a December 1996 spill without undermining the integrity of the tanks next to the excavation areas. The location of the seven TPH hot spots designated for excavation to the extent technically practicable in the C Yard subsurface soils are the following, 1) MW-4, SS-17, SS-18, which is southeast of tank 44, 2) SS-2, which is northwest of tank 44, 3) S-6, which is northwest of tank 37, 4) SS-2 and SS-13, which is between tanks 42 and 39, 5) S-5 and S-8, which is between tanks 35 and 37, 6) S-10, which is north of tank 35, 7) S-12, which is southwest of tank 35. This will improve groundwater quality, enhance biodegradation of residual TPH and provide a more

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timely restoration of the inland portions of the site. The 10,000mg/kg action level is the EPA TPH Hot Spot Action Level for Harbor Island;

d. Excavate to the extent technically practicable, accessible TPH hot spots using the action levels of 20,000 mg/kg in the B Yard subsurface soils affected by historical spills without undermining the integrity of the tanks next to the excavation areas. The two TPH hot spots designated for excavation to the extent technically practicable in the B Yard subsurface soil are identified in the following locations, 1) SS-28, which is located between tanks 18 and 21, 2) SS-9, which is located southwest of tank 22. This will improve groundwater quality, enhance biodegradation of residual TPH and provide a more timely restoration of the inland portions of the site. The 20,000mg/kg, action level is the EPA Guideline for Corrective Action Plan and Monitored Natural Attenuation Documents.

e. Upon completion of the free product removal from the Yard A, conduct subsurface TPH soil confirmation analytical sampling north of A-29 and northwest of A-22, which is northwest and southwest of the Garage Building in the A Yard. TPH hot spots up to 20,000 mg/kg are detected to be present at these locations. If the analytical results of the TPH subsurface soil confirmation sampling confirm TPH hot spots to be present at these location, excavate to the extent technically practicable, accessible TPH hot spots using the 20,000 mg/kg action levels in the, A Yard subsurface soils. This will improve groundwater quality, enhance biodegradation of residual TPH and provide a more timely restoration of the inland portions of the site.

f. Cap, fixate or excavate surface soils in B and C Yards where metal concentrations exceed 1,000 mg/kg for lead and 32.6 mg/kg for arsenic (EPA ROD for Surface Soils on Harbor Island). This is to prevent direct contact, prevent infiltration to the groundwater, and prevent surface runoff to the bay through storm drains; and

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g. Implement monitoring program for groundwater quality, institutional controls, and, contingency plans.

D. In August, 1995, the United States District Court for Western District of Washington (Civil Action No. 95-01495-Z) entered a Consent Decree (Federal Consent Decree) in *U.S. v. The Port of Seattle et al.* relating to claims under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. § 9601 et seq., involving the Harbor Island Superfund Site. Article I, Paragraph 8 of the Federal Consent Decree identifies operable units within the Harbor Island Superfund Site and recites that the Petroleum Tank Farm Operable Unit is under the management of the Department of Ecology. The Environmental Protection Agency and Ecology have entered into Memorandums of Understanding, dated February 5, 1991 and March 3, 1994, setting forth the duties and responsibilities of each agency with regard to site management and enforcement activities at the Harbor Island Superfund Site.

VI. WORK TO BE PERFORMED

This Decree contains a program designed to protect public health, welfare and the environment from the known release, or threatened release, of hazardous substances at, on, or from the Site. GATX agrees to take the following remedial actions and to conduct all work in accordance with Ch. 173-340 WAC, unless otherwise specifically provided herein. These actions are more specifically described in the Cleanup Action Plan attached as Exhibit B.

A. Task 1: Implement the Cleanup Action Plan (CAP):

1. Implement active and passive point-source extraction of floating product, partial-penetrating down-gradient vertical barrier to stop product migration; Remove free product from the groundwater throughout the Site;

2. Implement dual-phase extraction of product and air sparging;

3. Excavate to the extent technically practicable, accessible TPH hot spots using the action levels of 10,000 mg/kg in the C Yard subsurface soils affected by the December

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1996 spill without undermining the integrity of the tanks next to the excavation areas. The location of the seven TPH hot spots designated for excavation to the extent technically practicable in the C Yard subsurface soils are the following, 1) MW-4, SS-17, SS-18, which is southeast of tank 44, 2) SS-2, which is northwest of tank 44, 3) S-6, which is northwest of tank 37, 4) SS-2 and SS-13, which is between tanks 42 and 39, 5) S-5 and S-8, which is between tanks 35 and 37, 6) S-10, which is north of tank 35, 7) S-12, which is southwest of tank 35. Excavate to the extent technically practicable, accessible TPH hot spots using the action levels of 20,000 mg/kg in the B Yard subsurface soils affected by historical spills without undermining the integrity of the tanks next to the excavation areas. The location of the two TPH hot spots designated for excavation to the extent technically practicable in the B Yard subsurface soil are the following, 1) SS-28, which is located between tanks 18 and 21, 2) SS-9, which is located southwest of tank 22. Upon completion of the free product removal from the Yard A, conduct subsurface TPH soil confirmation analytical sampling north of A-29 and northwest of A-22, which is northwest and southwest of the Garage Building in the A Yard. TPH hot spots up to 20,000 mg/kg are detected to be present at these locations. If the analytical results of the TPH subsurface soil confirmation sampling confirm TPH hot spots to be present at these location, excavate to the extent technically practicable, accessible TPH hot spots using the 20,000 mg/kg action levels in the, A Yard subsurface soils. These actions required for the A, B, and C Yards will improve groundwater quality, enhance biodegradation of the residual TPH and provide a timely restoration of the affected areas;

4. Cap, fixate or excavate surface soils in B and C Yards where lead and arsenic concentrations exceed 1000 mg/kg and 32.6 mg/kg, respectively (EPA ROD for Harbor Island Surface Soils);

5. Implement monitoring program for groundwater quality;

6. Implement institutional controls and Restrictive Covenant attached hereto as Exhibit D; and

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7. Implement contingency plans, if necessary.

B. Task 2: Provide for public participation.

C. Task 3: Provide Remedial Design (RD).

D. Task 4: Implement the Compliance Groundwater Monitoring Program attached hereto as Exhibit F, which includes:

1. Protection monitoring;

2. Performance monitoring;

3. Confirmational monitoring.

E. Task 5: Implement Schedule attached hereto as Exhibit E.

F. GATX agrees not to perform any remedial actions on the Site that are inconsistent with the remedial actions required under this Consent Decree.

VII. DESIGNATED PROJECT COORDINATORS

The project coordinator for Ecology is:

Nnamdi Madakor, Senior Hydrogeologist
Washington State Department of Ecology
Northwest Regional Office
3190 160th Avenue SE
Bellevue, WA 98008-5452
(425) 649-7112

The project coordinator for GATX is:

Eric J. Conard, REA
GATX Terminals Corporation
1363 N. Gaffey St.
San Pedro, CA 90731-1323
(310) 518-7746

Each project coordinator shall be responsible for overseeing the implementation of this Decree. The Ecology project coordinator will be Ecology's designated representative at the Site. To the maximum extent possible, communications between Ecology and GATX and all documents, including reports, approvals, and other correspondence concerning the activities performed pursuant

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to the terms and conditions of this Decree, shall be directed through the project coordinators. The project coordinators may designate, in writing, working level staff contacts for all or portions of the implementation of the remedial work required by this Decree. The project coordinators may agree to minor modifications to the work to be performed without formal amendments to this Decree. Minor modifications will be documented in writing by Ecology.

Each party may change its respective project coordinator. Written notification shall be given to the other parties at least ten (10) days prior to the change.

VIII. PERFORMANCE

All work performed pursuant to this Decree shall be under the direction and supervision, as necessary, of a professional engineer or hydrogeologist, or equivalent, with experience and expertise in hazardous waste site investigation and cleanup. Any construction work must be under the supervision of a professional engineer. GATX shall notify Ecology in writing as to the identity of such engineer(s) or hydrogeologist(s), or others and of any contractors and subcontractors to be used in carrying out the terms of this Decree, in advance of their involvement at the Site. GATX may replace its selected project coordinator upon written notice to Ecology.

IX. ACCESS

Ecology or any Ecology-authorized representatives shall have the authority to enter and freely move about all property at the Site at all reasonable times for the purposes of, inter alia: inspecting records, operation logs, and contracts related to the work being performed pursuant to this Decree; reviewing GATX's progress in carrying out the terms of this Decree; conducting such tests or collecting such samples as Ecology may deem necessary; using a camera, sound recording, or other documentary type equipment to record work done pursuant to this Decree; and verifying the data submitted to Ecology by GATX. Without limitation on Ecology's rights under this section, Ecology will provide GATX advance notice of its entry onto the Site when feasible. All parties with access to the Site pursuant to this paragraph shall comply with Site Access and Operating

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Procedures, attached hereto as Exhibit C. Ecology shall make available to GATX the results of all sampling, laboratory reports, videos and other test results generated by Ecology or on its behalf.

X. SAMPLING, DATA REPORTING, AND AVAILABILITY

GATX shall make available to Ecology the results of all sampling, laboratory reports, and/or test results generated by GATX, or on its behalf, in the implementation of this Decree and shall submit these results in accordance with Section XI of this Decree.

In accordance with WAC 173-340-840(5), ground water sampling data shall be submitted according to the requirements that will be established in the Groundwater Compliance Monitoring Program, Exhibit F.

Each party shall allow split or replicate samples to be taken by the other and shall provide 5 working days notice before conducting any sampling activities.

XI. PROGRESS REPORTS

GATX shall submit to Ecology written progress reports that describe the actions taken to implement the requirements of this Decree. The progress report shall be prepared no more frequently than set forth in the following schedule:

- Quarterly during remedial design activities;
- Monthly during construction phase activities;
- Monthly for the first quarter after remedial system startup.

The frequency of progress reports to be submitted following the first quarter after remedial system startup shall be established in the Groundwater Compliance Monitoring Program. Progress reports shall include the following:

A. A list of on-site activities that have taken place during the reporting period;

B. Detailed description of any deviations from required tasks not otherwise documented in project plans or amendment requests;

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C. Description of all deviations from the schedule (Section VI, Work To Be Performed: Task 5) during the current reporting period and any planned deviations in the upcoming reporting period;

D. For any deviations in schedule, a plan for recovering lost time and maintaining compliance with the schedule;

E. All raw data (including laboratory analysis) received by GATX during the past month and an identification of the source of the sample; and

F. A list of deliverables for the upcoming month if different from the schedule.

All progress reports shall be submitted by the fifteenth day of the reporting period in which they are due after the effective date of this Decree. Unless otherwise specified, progress reports and any other documents submitted pursuant to this Decree shall be sent to Ecology's project coordinator.

XII. RETENTION OF RECORDS

GATX shall preserve, during the pendency of this Decree and for ten (10) years from the date this Decree is no longer in effect as provided in Section XXV, all records, reports, documents, and underlying data in its possession relevant to the implementation of this Decree and shall insert in contracts with project contractors and subcontractors a similar record retention requirement. Upon request of Ecology, GATX shall make all non-archived, non-privileged records available to Ecology and allow access for review. All archived non-privileged records shall be made available to Ecology within a reasonable period of time.

XIII. TRANSFER OF INTEREST IN PROPERTY

Prior to any voluntary or involuntary conveyance or relinquishment of any legal or equitable interest in all or any portion of the Site, GATX shall provide for continued operation and maintenance of any containment system, treatment system, and monitoring system installed or implemented pursuant to this Decree.

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Prior to transfer of any legal or equitable interest in all or any portion of the property, and during the effective period of this Decree, GATX shall serve a copy of this Decree upon any prospective purchaser, lessee, transferee, assignee, or other successor in interest of the property; and, at least thirty (30) days prior to any transfer, GATX shall notify Ecology of said contemplated transfer.

XIV. RESOLUTION OF DISPUTES

A. In the event a dispute arises as to an approval, disapproval, payment obligation, proposed modification or other decision or action by Ecology's project coordinator, the parties shall utilize the dispute resolution procedure set forth below.

1. Upon receipt of the Ecology project coordinator's decision, GATX has fourteen (14) days within which to notify Ecology's project coordinator of its objection to the decision.

2. The parties' project coordinators shall then confer in an effort to resolve the dispute. If the project coordinators cannot resolve the dispute within fourteen (14) days, Ecology's project coordinator shall issue a written decision.

3. GATX may then request Ecology management review of the decision. This request shall be submitted in writing to the Toxics Cleanup Program Manager within seven (7) days of receipt of Ecology's project coordinator's decision.

4. Ecology's Program Manager shall conduct a review of the dispute and shall issue a written decision regarding the dispute within thirty (30) days of GATX request for review. The Program Manager's decision shall be Ecology's final decision on the disputed matter.

B. If Ecology's final written decision is unacceptable to GATX, the parties may, by mutual agreement, submit the dispute to a neutral mediator. If the parties reach agreement as a result of the mediation, they shall jointly prepare a written resolution of the dispute immediately following the mediation session. If the parties fail to reach agreement as a result of the mediation,

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then Ecology shall, within thirty (30) days after the conclusion of the mediation, issue a written statement either reaffirming its original decision or setting forth a new decision. GATX has the right to submit the dispute to the Court for resolution within thirty (30) days after any of the following: (i) GATX receives written notice that Ecology does not agree to submit the dispute to mediation; (ii) after mediation, GATX receives a written statement from Ecology that is unacceptable to GATX; or (iii) Ecology fails to issue the final decision described earlier in this paragraph. The parties agree that one judge should retain jurisdiction over this case and shall, as necessary, resolve any dispute arising under this Decree.

C. For disputes that involve Ecology's investigative and remedial decisions, and others covered by RCW 70.105D.060, the standard of review shall be arbitrary and capricious. For all other disputes, the court shall decide the standard of review.

D. The parties agree to only utilize the dispute resolution process in good faith and agree to expedite, to the extent possible, the dispute resolution process whenever it is used. Where either party utilizes the dispute resolution process in bad faith or for purposes of delay, the other party may seek sanctions.

Implementation of these dispute resolution procedures shall not provide a basis for delay of any activities required in this Decree, unless Ecology agrees in writing to a schedule extension or the Court so orders.

XV. AMENDMENT OF CONSENT DECREE

Except for an extension granted pursuant to Section XVI below or technical revisions to Section VI or Exhibit B affecting the nature or scope of remedial work, this Decree may only be amended by a written stipulation among the parties to this Decree that is entered by the Court or by order of the Court. Such amendment shall become effective upon entry by the Court. Agreement to amend shall not be unreasonably withheld by any party to the Decree.

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GATX shall submit any request for an amendment to Ecology for approval. Ecology shall indicate its approval or disapproval in a timely manner after the request for amendment is received. If the amendment to the Decree is substantial, Ecology will provide public notice and opportunity for comment. Reasons for the disapproval shall be stated in writing. If Ecology does not agree to any proposed amendment, the disagreement may be addressed through the dispute resolution procedures described in Section XIV of this Decree. Technical revisions to Section VI or Exhibit B, affecting the nature or scope of remedial work, may be made by mutual written agreement of the parties without approval of the court.

XVI. EXTENSION OF SCHEDULE

A. An extension of schedule shall be granted only when a request for an extension is submitted in a timely fashion, generally at least 15 days prior to expiration of the deadline for which the extension is requested, and good cause exists for granting the extension. All extensions shall be requested in writing. The request shall specify the reason(s) the extension is needed.

An extension shall only be granted for such period of time as Ecology determines is reasonable under the circumstances. A requested extension shall not be effective until approved by Ecology or the Court. Ecology shall act upon any written request for extension in a timely fashion. It shall not be necessary to formally amend this Decree pursuant to Section XV when a schedule extension is granted.

B. The burden shall be on GATX to demonstrate that the request for such extension has been submitted in a timely fashion and that good cause exists for granting the extension. Good cause includes, but is not limited to, the following.

1. Circumstances beyond the reasonable control and despite the due diligence of GATX including delays caused by unrelated third parties or Ecology, such as (but not limited to) delays by Ecology in reviewing, approving, or modifying documents submitted by GATX; or

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2. Acts of God, including fire, flood, blizzard, extreme temperatures, storm, or other unavoidable casualty; or

3. Endangerment as described in Section XVII; or

4. Other circumstances deemed by Ecology to be exceptional, extraordinary, or otherwise necessary to protect the environment or public interest.

However, neither increased costs of performance of the terms of the Decree nor changed economic circumstances shall be considered circumstances beyond the reasonable control of GATX.

C. Ecology may extend the schedule for a period not to exceed ninety (90) days, except where an extension is needed as a result of:

1. Delays in the issuance of a necessary permit which was applied for in a timely manner; or

2. Other circumstances deemed exceptional or extraordinary by Ecology; or otherwise necessary to protect public health or the environment; or

3. Endangerment as described in Section XVII.

Ecology shall give GATX written notification in a timely fashion of any extensions granted pursuant to this Decree. Ecology shall not unreasonably withhold approval of requested extensions.

XVII. ENDANGERMENT

In the event Ecology determines that activities implementing or in compliance with this Decree, or any other circumstances or activities, are creating or have the potential to create a danger to the health or welfare of the people on the Site or in the surrounding area or to the environment, Ecology may order GATX to stop further implementation of this Decree for such period of time as needed to abate the danger or may petition the Court for an order as appropriate. During any stoppage of work under this section, the obligations of GATX with respect to the work under this Decree which is ordered to be stopped shall be suspended and the time periods for performance of that work, as well as the time period for any other work dependent upon the work which is stopped,

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shall be extended, pursuant to Section XVI of this Decree, for such period of time as Ecology determines is reasonable under the circumstances.

In the event GATX determines that activities undertaken in furtherance of this Decree or any other circumstances or activities are creating an endangerment to the people on the Site or in the surrounding area or to the environment, GATX may stop implementation of this Decree for such period of time necessary for Ecology to evaluate the situation and determine whether GATX should proceed with implementation of the Decree or whether the work stoppage should be continued until the danger is abated. GATX shall notify Ecology's project coordinator as soon as possible, but no later than twenty-four (24) hours after such stoppage of work, and thereafter provide Ecology with documentation of the basis for the work stoppage. If Ecology disagrees with GATX's determination, it may order GATX to resume implementation of this Decree. If Ecology concurs with the work stoppage, GATX's obligations shall be suspended and the time period for performance of that work, as well as the time period for any other work dependent upon the work which was stopped, shall be extended, pursuant to Section XVI of this Decree, for such period of time as Ecology determines is reasonable under the circumstances. Any disagreements arising under this clause shall be resolved through the dispute resolution procedures in Section XIV.

XVIII. COVENANT NOT TO SUE

A. In consideration of GATX's compliance with the terms and conditions of this Decree, Ecology covenants that compliance with this Decree shall stand in lieu of any and all administrative, legal, and equitable remedies and enforcement actions available to Ecology against GATX for the release or threatened release of hazardous substances covered by the terms of this Decree.

B. This covenant is strictly limited in its application to the Site specifically described in Exhibit A and to those hazardous substances that Ecology knows to be located at the Site as of the

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date of entry of this Decree. This covenant is not applicable to any other hazardous substance or area, and Ecology retains all of its authority relative to such substances and areas.

C. In the following circumstances Ecology may exercise it full legal authority to address releases of hazardous substances at the Site notwithstanding the Covenant Not to Sue set forth above:

1. If GATX fails to comply with the terms and conditions of this Decree, including all exhibits, and, after written notice of noncompliance and reasonable opportunity for compliance, fails to do it; or

2. If factors not known at the time of entry of this Decree, including factors listed in WAC 173-340-420(2), are discovered and Ecology determines, in light of these factors, that further remedial action is necessary at the Site to protect human health or the environment, provided that, if this paragraph becomes operative, Ecology will allow GATX to propose the further action where such proposal can be made promptly and without endangering human health or the environment; or

3. If Ecology determines that conditions at the Site cause an endangerment to human health or the environment, and that actions beyond those required under this Decree are necessary.

D. The Covenant Not to Sue set forth above shall have no applicability whatsover to

1. Criminal liability;

2. Any liability for damages to natural resources;

3. Any Ecology action against potentially liable persons not a party to this Decree.

XIX. INDEMNIFICATION

GATX agrees to indemnify and save and hold the State of Washington, its employees, and agents harmless from any and all claims or causes of action for death or injuries to

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persons or for loss or damage to property arising from or on account of negligent acts or omissions of GATX, its officers, employees, agents, or contractors in entering into and implementing this Decree. However, GATX shall not indemnify the State of Washington nor save nor hold its employees and agents harmless from any claims or causes of action arising out of the intentional misconduct or negligent acts or omissions of the State of Washington, or the employees or agents of the State, in implementing the activities pursuant to this Decree.

XX. COMPLIANCE WITH APPLICABLE LAWS

A. All actions carried out by GATX pursuant to this Decree shall be done in accordance with all applicable federal, state, and local requirements, including requirements to obtain necessary permits, except as provided in Paragraph B. of this section.

B. Exhibit B, the Cleanup Action Plan, will include the substantive requirements of chapters 70.94, 70.95, 70.105, 75.20, 90.48, and 90.58 RCW and of any laws requiring or authorizing local government permits or approvals for the remedial action under this Decree.

GATX has a continuing obligation to determine whether additional permits or approvals addressed in RCW 70.105D.090(l) would otherwise be required for the remedial action under this Decree. In the event either GATX or Ecology determines that additional permits or approvals addressed in RCW 70.105D.090(l) would otherwise be required for the remedial action under this Decree, it shall promptly notify the other party of this determination. Ecology shall determine whether Ecology or GATX shall be responsible to contact the appropriate state and/or local agencies. If Ecology so requires, GATX shall promptly consult with the appropriate state and/or local agencies and provide Ecology with written documentation from those agencies of the substantive requirements those agencies believe are applicable to the remedial action. Ecology shall make the final determination on the additional substantive requirements that must be met by GATX and on how GATX must meet those requirements. Ecology shall inform GATX in writing of these requirements. Once established by Ecology, the additional requirements shall be enforceable

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requirements of this Decree. GATX shall not begin or continue the remedial action potentially subject to the additional requirements until Ecology makes its final determination.

Ecology shall ensure that notice and opportunity for comment is provided to the public and appropriate agencies prior to establishing the substantive requirements under this section.

C. Pursuant to RCW 70.105D.090(2), in the event Ecology determines that the exemption from complying with the procedural requirements of the laws referenced in RCW 70.105D.090(l) would result in the loss of approval from a federal agency which is necessary for the State to administer any federal law, the exemption shall not apply and GATX shall comply with both the procedural and substantive requirements of the laws referenced in RCW 70.105D.090(l), including any requirements to obtain permits.

D. In implementing this Decree for purposes such as sampling, it is contemplated that GATX may remove limited quantities of soil, groundwater, and other materials (collectively, "Materials") from real property within or adjacent to the Site. Any removal shall be done in compliance with all applicable laws as required by this Section XX. It is agreed that any disposition of the Materials by GATX, including documents generated pursuant to such disposition, shall not be deemed to be an admission by such party of liability for purposes of the Model Toxics Control Act.

XXI. REMEDIAL AND INVESTIGATIVE COSTS

A. GATX agrees to pay costs incurred by Ecology pursuant to this Decree which have not been previously paid. These costs shall include work performed by Ecology or its contractors for, or on, the Site under Ch. 70.105D RCW, both prior to and subsequent to the issuance of this Decree, for investigations, remedial actions, Cleanup Action Plan and Decree preparation, negotiations, oversight and administration. Ecology costs shall include costs of direct activities and support costs of direct activities as defined in WAC 173-340-550(2). GATX agrees to pay the required amount within ninety (90) days of receiving from Ecology an itemized statement of costs that includes a summary of costs incurred, an identification of involved staff, and the amount of time

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spent by involved staff members on the project. A general statement of work performed will be provided upon request and GATX has submitted such a request to Ecology. Itemized statements and costs shall be prepared quarterly. Failure to pay Ecology's costs within ninety (90) days of receipt of the itemized statement will result in interest charges as allowed by law. GATX reserves the right to review and approve any charges prior to payment. Any dispute regarding remedial and investigation costs for the Site shall be subject to dispute resolution pursuant to Section XIV. GATX reserves the right to pay the undisputed portion of an invoice and not pay the disputed portion.

XXII. IMPLEMENTATION OF REMEDIAL ACTION

If Ecology determines that GATX has failed without good cause to implement the remedial action, Ecology may, after notice and reasonable opportunity to GATX to cure the failure, perform any or all portions of the remedial action that remain incomplete. If Ecology performs all or portions of the remedial action because of GATX's failure to comply with its obligations under this Decree, GATX shall reimburse Ecology for the costs of doing such work in accordance with Section XXI, provided that GATX is not obligated under this section to reimburse Ecology for costs incurred for work inconsistent with or beyond the scope of this Decree.

XXIII. FIVE YEAR REVIEW

As remedial action, including ground water monitoring, continues at the Site, the parties agree to review the progress of remedial action at the Site, and to review the data accumulated as a result of site monitoring as often as is necessary and appropriate under the circumstances or as agreed upon in the Compliance Groundwater Monitoring Program for the Site. The parties agree to meet to discuss the Site status every five years upon request from Ecology, or at GATX's request. Ecology reserves the right to require further remedial action at the Site under appropriate circumstances. This provision shall remain in effect for the duration of the Decree.

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XXIV. PUBLIC PARTICIPATION

Ecology shall maintain the responsibility for public participation at the Site. However, GATX shall cooperate with Ecology and, if agreed to by Ecology, shall:

A. Prepare drafts of public notices and fact sheets at important stages of the remedial action, such as the submission of engineering design reports. Ecology will finalize (including editing if necessary) and, after receiving and considering comments from GATX, distribute such fact sheets and prepare and distribute public notices of Ecology's presentations and meetings;

B. Notify Ecology's project coordinator prior to the preparation of all press releases and fact sheets, and before major meetings with the interested public and local governments. Likewise, Ecology shall notify and consult with GATX prior to the issuance of all press releases and fact sheets, and before major meetings with the interested public and local governments;

C. Participate in public presentations on the progress of the remedial action at the Site. Participation may be through attendance at public meetings to assist in answering questions, or as a presenter; and

D. Provide Ecology with copies of documents to be placed in information repositories to be located at the Seattle Public Library, Downtown Branch, Magazines, Newspapers and Government Publications Dept., 1000 4th Ave., Seattle, Washington 98104 and Ecology's Northwest Regional Office at 3190 160th Avenue SE, Bellevue, Washington 98008-5452. Copies of all public notices, fact sheets, and press releases; all quality assured ground water, surface water, soil sediment, and air monitoring data; remedial actions plans, supplemental remedial planning documents, and all other similar documents relating to performance of the remedial action required by this Decree shall be promptly placed in these repositories.

XXV. DURATION OF DECREE

A. This Decree shall remain in effect and the remedial program described in the Decree shall be maintained and continued until GATX has received written notification from Ecology that

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the requirements of this Decree have been satisfactorily completed. Ecology shall issue such notification within sixty (60) days after the requirements of this Decree have been satisfactorily completed. Thereafter the parties within thirty (30) days shall jointly request that the Court vacate this Consent Decree.

B. Upon completion of each action specified in the Final CAP, Ecology shall issue a Certificate of Completion within sixty (60) days after such action has been completed.

XXVI. CLAIMS AGAINST THE STATE

GATX hereby agrees that it will not seek to recover any costs incurred in implementing the remedial action required by this Decree from the Washington Department of Ecology; State of Washington or any of its agencies, with the exception of the Department of Natural Resources; and further, that GATX will make no claim against the State Toxics Control Account or any Local Toxics Control Account for any costs incurred in implementing this Decree. Except as provided above, however, GATX expressly reserves its right to seek to recover any costs incurred in implementing this Decree from any other potentially liable person. GATX further reserves its right to make a claim against the State or Local Toxics Control Account for the costs incurred in remediating hazardous substances released as a result of third-party offsite activities, but only if future amendments to MTCA or applicable regulations or guidelines allow for such claims, and operate retroactively. No determination has been made whether such a claim, if filed, would be valid, and both parties agree that any claim would have to be evaluated under the law in effect at the time the claim was made.

XXVII. EFFECTIVE DATE

This Decree is effective upon the date it is entered by the Court.

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XXVIII. PUBLIC NOTICE AND WITHDRAWAL OF CONSENT

This Decree has been the subject of public notice and comment under RCW 70.105D.040(4)(a). As a result of this process, Ecology has found that this Decree will lead to a more expeditious cleanup of hazardous substances at the Site.

If the Court withholds or withdraws its consent to this Decree, it shall be null and void at the option of any party and the accompanying Complaint shall be dismissed without costs and without prejudice. In such an event, no party shall be bound by the requirements of this Decree.

XXIX. LAND USE RESTRICTIONS

GATX agrees that the Restrictive Covenant, Exhibit D, shall be recorded with the office of the King County Auditor within 10 days of the entry of this Decree and shall restrict future uses of the Site. With Ecology's prior written approval, and after completion of the remedial action required by this Decree, GATX, or its successor(s), may record an instrument that provides that the Restrictive Covenant provided in Exhibit D shall no longer limit uses of the Site or be of any further force or effect.

XXX. CONTRIBUTION PROTECTION

A. With regard to actions, claims, counterclaims, or cross-claims for contribution against GATX for Matters Addressed in this Consent Decree, the parties hereto agree that GATX is entitled to contribution protection from any actions, claims, or cross-claims pursuant to MTCA, RCW 70.105D.080, or any other federal or state claim or cross-claim seeking, under other theories, substantially similar relief, to the fullest extent allowed by MTCA, RCW 70.105D.080. The contribution protection conferred in this section shall not be frustrated by the use of non-MTCA theories to seek relief in the nature of contribution or indemnification. For the purpose of this paragraph, "Matters Addressed" shall include all past and future investigation and remedial measures taken at the Site by GATX or Shell Oil Company pursuant to this Consent Decree or under Ecology oversight.

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B. The response costs paid by GATX under this Decree shall not in any way constitute an admission as to an appropriate allocation of liability, if any, at the Site. This Section XXX shall apply to, but is not limited to, successors in interest who assume obligations under this Decree.

XXXI. RESERVATION OF RIGHTS

By agreeing to this Decree, GATX and Ecology agree to abide by its items. The execution and performance of the Decree is not, however, an admission by GATX of any fact or liability for any purpose other than as a foundation for the entry of this Decree. GATX's performance under the Decree is undertaken without waiver of or prejudice to any claims or defenses whatsover that may be asserted in the event of further administrative proceedings or litigation not associated with, or related to, this Decree.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

By: _____
JAMES PENDOWSKI
Program Manager
Toxics Cleanup Program

STATE OF WASHINGTON
ATTORNEY GENERAL'S OFFICE

By: _____
KEN LEDERMAN
WSBA # 26515
Assistant Attorney General

GATX TERMINALS CORPORATION

By: Harold D. King
VICE PRESIDENT - OPERATIONS

Dated this 12th day of April, 2000.

Marilyn Sellers
~~JUDGE~~ Commissioner
King County Superior Court

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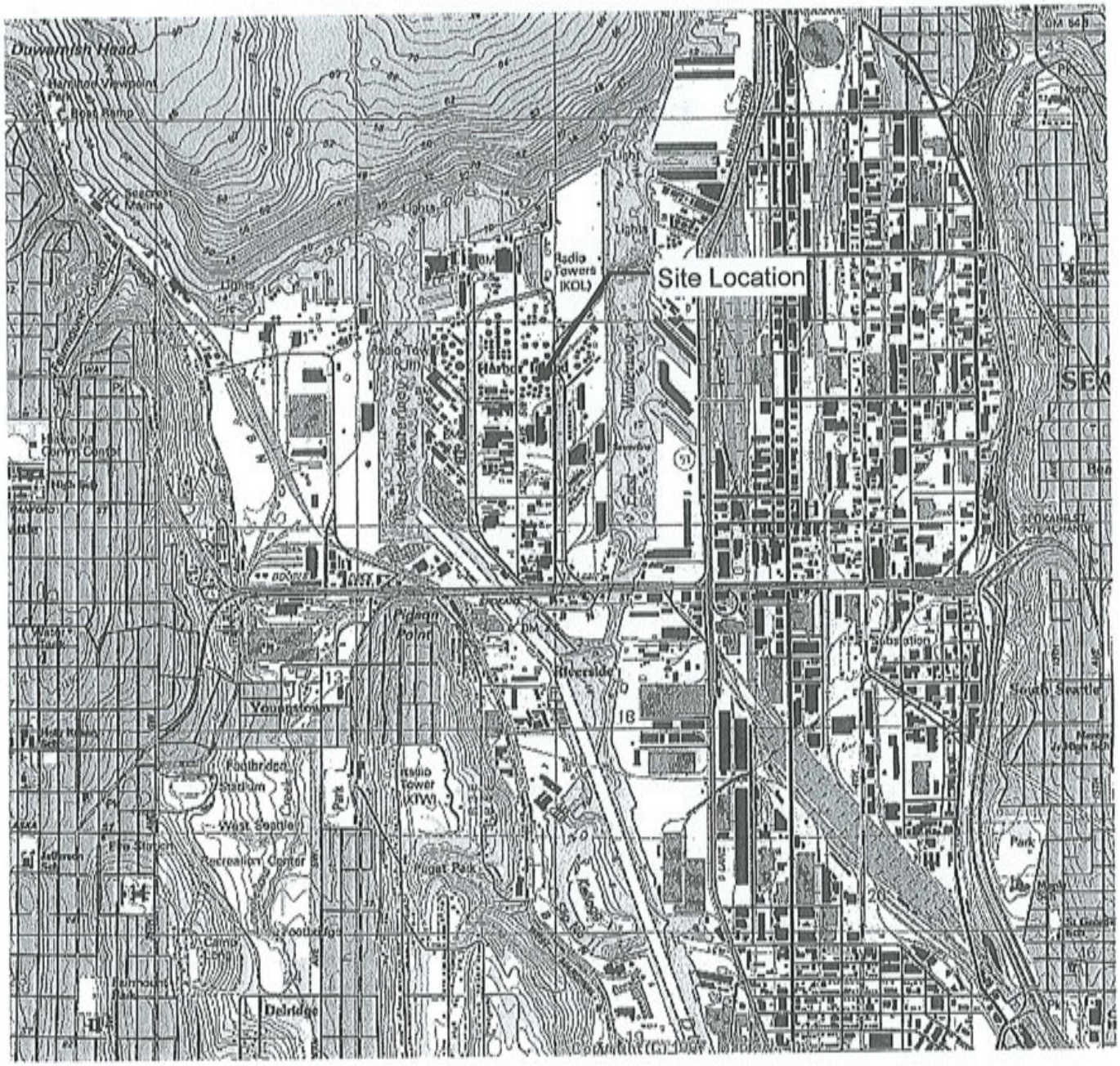
EXHIBIT A

Site Diagram



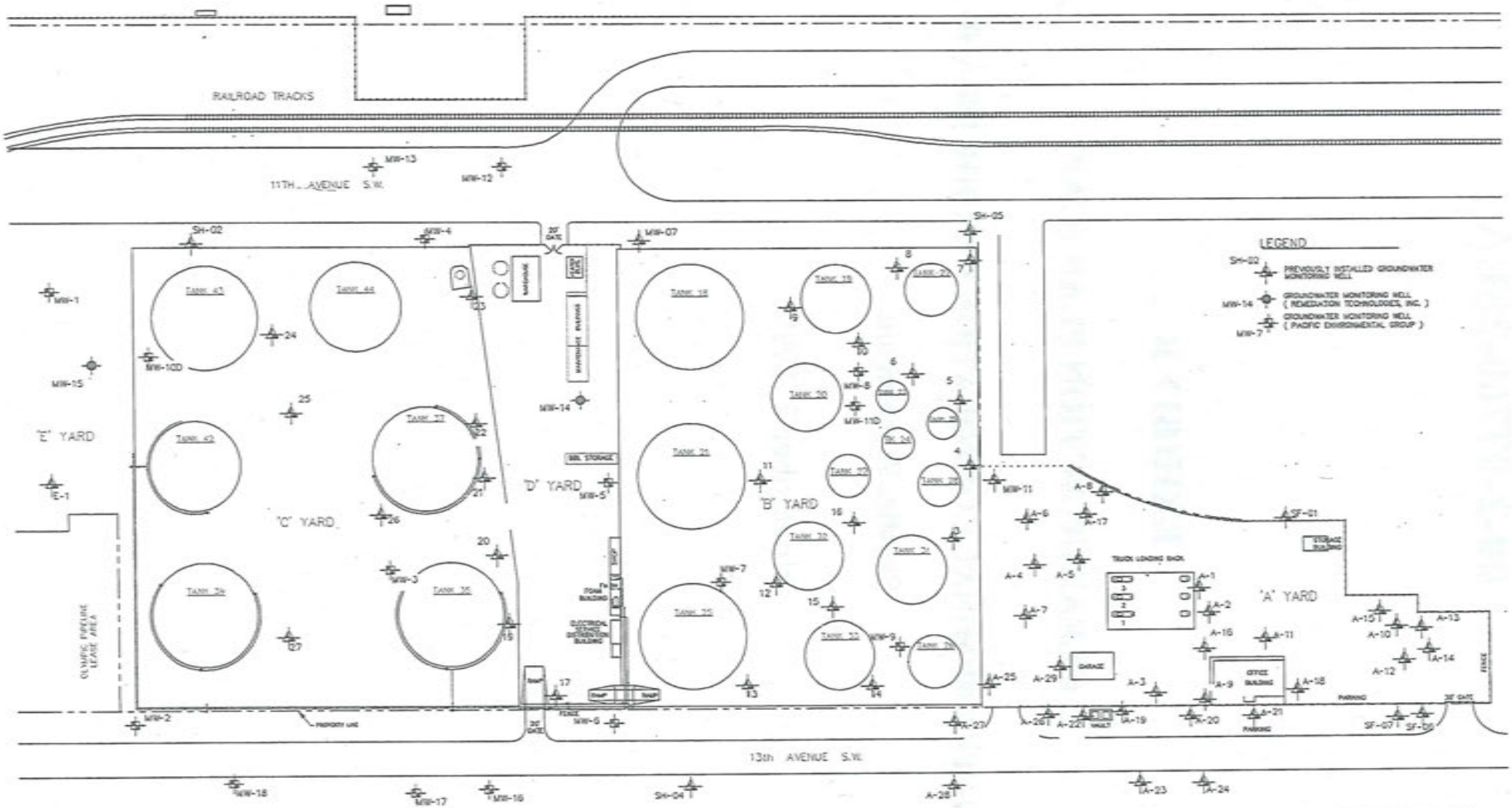
REFERENCES

USGS 7.5 Minute Topographic Map
Seattle South, Washington 1983

SCALE: 1:25,000

KHM ENVIRONMENTAL MANAGEMENT INC.

TITLE	Site Location Map
	GATX Terminals Corporation Harbor Island 2720 13th Avenue Southwest Seattle, Washington
DATE 10/26/99	PROJECT A30-01A
FIGURE 1	



KHM ENVIRONMENTAL MANAGEMENT INC.	TITLE	Site Map
		GATX Terminals Corporation Harbor Island Terminal 2720 13th Avenue Southwest Seattle, Washington
	DATE 10/26/99	PROJECT A30-01A
		FIGURE 2

00-2-07760-2SEA

EXHIBIT B

CLEANUP ACTION PLAN (CAP)

GATX TERMINAL CORPORATION HARBOR ISLAND

Seattle, Washington

November 2, 1999

TABLE OF CONTENT

EXHIBIT B
CLEANUP ACTION PLAN (CAP)

GATX TERMINAL CORPORATION HARBOR ISLAND
Seattle, Washington

1.0 INTRODUCTION

This Cleanup Action Plan (CAP) is provided to describe the proposed remediation at the GATX Harbor Island Terminal (Terminal) located in Seattle, Washington. It has been prepared to satisfy the requirements of the Model Toxics Control Act (MTCA) Agreed Order No. DE 92 TC-N159, cooperatively entered into between the former owner, SHELL Oil and the Washington State Department of Ecology (Ecology) and to implement the Consent Decree between Ecology and GATX Terminals Corporation (GATX). GATX acquired the site from SHELL Oil in 1994.

The purposes of this CAP are to: 1) describe the site, including a summary of its history and extent of contamination; 2) identify the site-specific cleanup standards, 3) summarize the remedial cleanup action alternatives presented in the Focused Feasibility Studies (FFS), 4) identify and describe the selected remedial action alternative for the site and 5) discuss the implementation schedule. Detailed information regarding site history, characterization, and the evaluation of alternative cleanup actions is contained in the final RI and final FFS reports [Pacific Environmental Group, Inc., 1994, 1997].

The remedial actions selected for the site are to occur under the legal framework of a Consent Decree between GATX and Ecology.

2.0 SUMMARY OF SITE CONDITIONS & INTERIM REMEDIATION SYSTEM

This section provides a summary of site conditions, including the nature and extent of impacts and a description of interim remediation system conducted on the site. In addition, the exposure pathways identified for the site are briefly described.

2.1 Site

The GATX Harbor Island Terminal is located at 2720 13th Avenue Southwest in Seattle, Washington (Figure 1) and is part of a U.S. EPA Superfund Site, the Terminal Operable Unit. The facility, approximately 14 acres in size, is located in the highly industrialized north-central section of Harbor Island and was owned and operated by Shell since 1944. In

December 1994, GATX purchased the Terminal from Shell and currently manages all facility operations. The Terminal is situated on relatively level property, with surface elevations ranging between 6 to 11 feet above sea level. There are no surface water bodies on the Terminal property boundaries. The site is situated approximately 1,400 feet from the West Waterway and over 1000 feet from the East Waterway. The site is zoned industrial and meets the industrial criteria established under WAC 173-340-745. It is likely that the site will remain an industrial facility and a Superfund Site in the foreseeable future. Ecology and EPA have determined that there is no current or planned future use of groundwater beneath Harbor Island for drinking water purposes.

The Terminal is presently divided into five distinct areas (Figure 2). These areas include the A, B, C, D, and E Yards. The A Yard contains two fuel tanker truck-loading racks. The administrative office and maintenance building is also situated in the A Yard. The A Yard is entirely paved with asphalt or concrete. The A Yard is bounded by a containment dike for the B Yard on the north and by chain-link fencing on the south, east, and west.

The B and C Yards are used as bulk fuel storage areas. Fifteen above ground storage tanks are located within the B Yard and six are situated within the C Yard. Both yards are mostly unpaved and are surrounded by concrete containment dikes.

The D Yard is situated between the B and C Yards and has been used to route product and utility lines. Several maintenance buildings and material handling areas are also situated within the D Yard. The partially paved yard is enclosed to the north and south by concrete dikes from the B and C Yards and is fenced on the east and west sides.

The E Yard once served as a fuel loading rack facility. This yard is currently leased to Chevron Oil Company and is partially paved. Terminal operations commenced in 1944 when tanks in the B Yard were installed. Tanks in the C Yard were subsequently constructed in 1951. A loading rack was once situated in the E Yard. This rack and associated piping were removed in 1992. Shell leased the A Yard from the Port of Seattle (Port) in 1979 and constructed two fuel tanker truck loading racks. The loading racks remain in use by GATX today.

The Terminal is situated on the southeast portion of a groundwater mound that is centered on the northern half of Harbor Island. Groundwater migration is south, southeast and southwest across the site. The predominant groundwater flow direction is toward the southeast. The primary groundwater discharge point is the Duwamish River, East and West Waterways. Due to the dampening effect of the bulkhead structures along the East and West Waterways of the Duwamish River, and the inland location of the site which is at the center of the Island, water table fluctuations in response to tidal influence and seasonal fluctuations is less than 1 feet at the site.

2.1.1 Nature and Extent

The following section summarizes the nature and extent of contamination at the site based on the results of the RI and FFS. A general discussion of the contaminants detected at the site is presented first. A summary of the floating product or product (defined as a separate phase, mobile petroleum hydrocarbon compounds) plume beneath the A and C Yards is presented next since this and the surface soils impacts of lead and arsenic are the primary areas of concerns at the site. Sections on total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylene compounds (BTEX) follow.

The primary constituents of concern encountered in the subsurface soil beneath the Terminal are TPH-G, TPH-D, and TPH-O. Elevated TPH concentrations exist in four general areas: (1) the southern portion of the B Yard, (2) the northern portion of the A Yard, (3) the southern half of the C Yard, and (4) the area between Tanks 39 and 42 in the C Yard.

The inorganic metals, arsenic and lead are present throughout the C and B Yards on the surface soils and in the groundwater and are likely due to historical air stack emissions from an offsite smelter.

Within the C Yard, TPH-gasoline and benzene are also primary contaminants of concern in the surface soil. GATX conducted an aggressive interim action in 1996 and early 1997 to contain and remove the floating product and dissolved petroleum hydrocarbons from beneath the site resulting from the December 1996 release. Approximately, 7,200 gallons of product, and 142,497 gallons of contaminated groundwater were recovered from the subsurface, recycled (for the product), and treated (the dissolved petroleum hydrocarbons), before disposal.

The results of the site characterization activities conducted during the RI indicate that contaminants present in soil and groundwater at the site are primarily freshly spilled gasoline (estimated 48,000 gallons, December 1996). The spill is mixed with highly weathered total petroleum hydrocarbons as diesel (TPH-D) with lesser amounts of weathered gasoline (TPH-G) and heavier oil (TPH-O), and inorganic metals (arsenic and lead). The weathered TPH is most likely the result of historic spills at the site.

Floating Product. The presence of floating product is limited to seven areas in the A Yard, one area in the B Yard. In January 1997, the thickness of floating product present in the A yard, ranged from 0.01 to 0.48 feet. Product observed in the B Yard ranged in thickness from 0.14 to 1.60 feet (Wells 12 and 15) during this period. The thickness of measurable product in the C Yard ranged from 0.11 to 1.20 feet in December 1996. In February 1997, measurable amounts of product in the C Yard had decreased since the implementation of the interim action and it ranged, in thickness from 0.01 to 0.23 feet. The interim action was discontinued in April 1997. In May 1998, no free product was observed in the C Yard.

The result of the Supplemental Investigation of the C Yard Fuel Spill indicate that approximately 7,200 gallons of gasoline was initially recovered from the ground surface, and

about 4,900 gallons was recovered from the water table. The remainder of the spill probably volatilized directly into the atmosphere or adsorbed in soil. The proposed remedial action alternatives presented in this CAP is intended to address this and other petroleum hydrocarbon contamination at the site.

Arsenic and Lead. Arsenic and Lead were found in surface soils throughout B and C Yards, and portions of D, and E, Yards of the tank farms above Harbor Island action levels (lead 1000- mg/kg, arsenic - 32.6 mg/kg) set in the EPA ROD for the surface soils. These action levels are based on a risk assessment conducted by EPA. EPA conducted surface soil investigations for the island including the GATX site. Ecology and EPA in a memorandum of agreement (MOA) agreed not to duplicate investigation efforts on the island except where data gaps exist. In 1994, Ecology concurred with the EPA ROD on Harbor Island.

The lateral distribution of lead appears to be relatively uniform across the B and C Yards. Lead concentrations decrease rapidly at depth to less than 100 parts per million (ppm) at 1.5 feet below grade. At depths below 1.5 feet, total lead concentrations in soil were below 51 ppm. The occurrence of lead is most likely associated with stack emissions from an offsite former lead smelter located south of the GATX site.

Total lead in the groundwater was detected in 18 of the 24 groundwater samples analyzed (75%), while dissolved lead was detected in 2 of the 11 groundwater samples analyzed (18%). Arsenic was detected in 4 of the 10 groundwater samples analyzed (40%). Arsenic and lead are the only metals detected in groundwater above cleanup levels during the RI monitoring. Dissolved copper, arsenic and lead were also detected across much of the northern portion of Harbor Island during the USEPA RI, indicating elevated background concentrations. These inorganic metals are associated with the former lead smelter and marine paints used at shipbuilding and repair facilities adjacent to the Texaco Terminal (Tetra Tech 1988).

TPH and BTEX. RI data also indicate that elevated concentrations of TPH are present in the subsurface soils. The primary constituents of concern encountered in the subsurface soil beneath the Terminal are TPH-G, TPH-D, and TPH-O. Of the soil samples analyzed for the site, distribution of detected total TPH are: 19% contained TPH-G, 42% contained TPH-D, and 39% contained TPH-O. Elevated TPH concentrations exist in four general areas: (1) the south portion of the B Yard, (2) the northern portion of the A Yard, (3) the area adjacent to Tank 44 situated in the southeast portion of the C Yard, and (4) the area between Tank 39 and 42 in the C Yard. These findings tend to correlate with documented releases from above-ground tanks in the B and C Yards (Hart Crowser, 1992).

It is suspected that the primary potential source areas for TPH observed within the A, Yard include a former oil-water separator, a former loading rack, a former UST that previously stored diesel, and a portion of an old vapor recovery system. All of these facilities have ceased operation and have been removed or decommissioned. The vertical migration of TPH in soil is limited because of the shallow depth to groundwater. In most cases, TPH

concentrations are highest at the groundwater table interface. However, the Supplemental RI data show that a resulting "smear" zone of product in soil beneath the product plume has been detected up to 4 feet below the water table.

The primary dissolved contaminants observed in groundwater include TPH-G, TPH-D, TPH-O, and benzene. The extent of dissolved TPH-G in groundwater is generally limited to the northern, western and southern portions of the A Yard, the southwest portion of the B Yard, and the southern and southeastern portions of the C Yard. This observation concurs with past gasoline usage and storage practices at the Terminal.

Of the groundwater samples analyzed for the site, distribution of detected dissolved total petroleum hydrocarbons are: 30% contained TPH-G, 52% contained TPH-D, and 18% contained TPH-O. Relatively uniform concentrations of TPH-D were observed in groundwater from wells in the C, D, and E Yards, slightly elevated concentrations of TPH-D (2 to 13 ppm) were detected in the B Yard and are likely due to the presence of separate phase hydrocarbons in this area. Benzene was detected in 10 of the 22 groundwater samples analyzed (45%).

Fate and transport groundwater modeling conducted for the tank farms show that constituents of the dissolved petroleum hydrocarbons (e.g., benzene) do not pose a threat at the shorelines of the East and West Waterways of the Duwamish River. Therefore the primary concern at the site are potential surface runoffs from surface soils to surface water, infiltration, and potential airborne particulate exposure to day workers. Offsite migration of these contaminants in the subsurface is a secondary concern at the site.

Marine Sediments. GATX site is situated at the middle of the island and has no direct marine sediment or shorelines next to its property boundaries.

2.1.2 Exposure Pathways

The following pathways were evaluated at the site as part of the FFS (Pacific Environmental Group, Inc. 1997):

- Product to Groundwater and Surface Water
- Soil to Groundwater
- In-land Groundwater to Surface Water
- Soil Particulate to Air
- Soil Direct Contact
- Groundwater to Marine Sediments

As described in the following sections, the primary exposure pathways of concern identified for the site are associated with the product plume (Section 2.1.2.1), lead and arsenic

particulate in surface soil (Section 2.1.2.4.). Secondary exposure pathways identified for the site are associated with the subsurface soil in the A, B, and C Yards (Section 2.1.2.2).

2.1.2.1 Product to Groundwater and Surface Water Pathway

The two potential transport pathways associated with product plume beneath the site include; (1) migration of vapors to nearby structures and offices, (2) and partitioning of hydrocarbons from the product or adjacent soil to the groundwater, and then subsequent transport in dissolved phase to the surface water through groundwater discharges. These pathways associated with the product plume are the primary and secondary pathways of concern because they pose a potential threat to the surface water and its ecosystem. The proposed cleanup action will interrupt these pathways, which will focus on removal of the product, dissolved petroleum hydrocarbons, and vapors as discussed in Section 4. These actions will be effective in meeting cleanup levels in groundwater at the point of compliance, providing protection to day workers or nearby offices from fumes and vapors, and preventing potential migration of product sheen and dissolved petroleum hydrocarbon plumes into the surface water at the island edges.

2.1.2.2 Soil to Groundwater Pathway

The results of groundwater monitoring data and interim remediation conducted during the RI and FFS indicate that gasoline constituents are adsorbed in the soil from the recent spill. Groundwater monitoring data indicate that the dissolved plumes associated with these sources have not reached apparent equilibrium with the soils. However, the results of the fate and transport modeling of the petroleum hydrocarbon constituent, benzene, partitioned in the groundwater shows that the groundwater pathway at the GATX site does not pose a threat to the surface water at the shorelines. However, groundwater monitoring shows that offsite migration to adjacent properties is viable and it is a secondary concern at the site.

The soil to groundwater pathway from the inland portions of Harbor Island where the site is located does not pose a threat to the surface water at the shorelines based on the results of the fate and transport modeling and groundwater monitoring for the site. Therefore, offsite migration to adjacent properties is considered a secondary concern. Accessible TPH contaminated soil hot spots that are ongoing sources of groundwater contamination will be excavated to the extent practicable. This excavation will be based on the action levels of 10,000 mg/kg for the C Yard where the recent spill of 1996 occurred and 20,000 mg/kg for the rest of the site. The 10,000 mg/kg action level was selected in the U.S. EPA ROD for TPH hot spots on Harbor Island. The 20,000 mg/kg action level is the EPA (A Guide to Corrective Action, EPA, May 1995) recommended lower threshold criteria to enable natural attenuation to successfully reduce total petroleum hydrocarbons concentrations in soils to acceptable levels within a reasonable restoration time period.

Excavation of accessible TPH soil hot spots that are ongoing sources of groundwater contamination will be performed so that the dissolved petroleum hydrocarbon in groundwater

does not adversely impact off-site properties. This hot-spot remediation is being performed to improve groundwater general conditions at the source and to enhance the timely restoration of the impacted area through natural degradation. Monitoring wells will be sampled along the property boundaries as part of the Groundwater Compliance Monitoring Program to provide early warning of any potential off property migration. A detailed contingency plan is outlined in the compliance groundwater monitoring program for the site as a 'backup' remediation technology in case the Preferred Corrective Option proves ineffective.

2.1.2.3 Inland Groundwater to Surface Water Pathway

The results of groundwater analytical modeling conducted during the FFS indicate that the dissolved-phase hydrocarbon plumes originating inland within the site will not reach Elliott Bay or the Duwamish River at concentrations above surface water cleanup levels. Continued groundwater monitoring will be conducted as part of the cleanup action to verify protection of Elliott Bay and the Duwamish River.

The selected remedy for groundwater combines several remedial elements to meet the remedial action objectives of removing petroleum vapors, product and the dissolved petroleum hydrocarbons including residual hydrocarbons below the water table within and along the property boundaries. These elements are discussed in detail in Section 4.1.

The selected remedial technologies will enhance and expedite the natural biodegradation of the residual TPH. The effectiveness of these actions to interrupt groundwater to surface water pathway for the protection of human health and the surface water will be verified through the groundwater compliance monitoring program, Exhibit F, for the site. If groundwater contaminant concentrations attributed to the Terminal are confirmed above appropriate state and federal standards, the contingency plan outlined in this CAP will be implemented. The final remedial design for the implementation of these technologies will be conducted under the legal framework of the Consent Decree.

2.1.2.4 Soil Particulate to Air Pathway

This pathway is of concern for TPH because TPH-impacted soil is located at or near ground surface comprising mostly of fresh gasoline associated with the 1996 release. The surface areas of impact in this location are limited to the C Yard. During the remedial design phase, additional surface soil data will be collected for TPH-G to evaluate if soil particulate to air pathway is still a concern at the C Yard.

EPA ROD for surface soils on Harbor Island requires 3 inches of asphalt cap on areas of Harbor Island that exceed 32.6 mg/kg, arsenic and 1000.0 mg/kg, lead based on a risk assessment conducted during the EPA RI.

The results of the EPA RI surface soil lead and arsenic analyses for the GATX site indicate that the soil particulate to air pathway is of primary concern for the B and C Yards, and portions of the D and E Yards, where lead and arsenic levels exceed Harbor Island action levels. Ecology concurs with EPA that this is a concern because the gravel cover may not provide adequate protection from groundwater infiltration, air particulate exposure to day workers, leaching, and some surface runoff discharges.

The proposed cleanup action for this pathway includes excavation or capping of accessible areas of the site that exceed lead and arsenic action levels. If capping is selected, 3 inches of asphalt or its equivalent of Portland Cement fixation will be implemented, followed with a TCLP test to ensure that the fixation is complete. This is will effectively eliminate the soil to air pathway, surface soil to groundwater infiltration, and subsequent runoffs as discussed in Section 4.

2.1.2.5 Soil Direct Contact Pathway

The capping or excavation of the affected surface soil areas of the C and B Yards will effectively address the soil direct contact pathway for areas impacted by the recent spill, arsenic and lead. Additional protection will be provided through the restrictive and deed covenant on the property and institutional controls.

2.1.2.6 Groundwater to Marine Sediments Pathway

This pathway is not of concern based on the results of the fate and transport modeling conducted at site. However, groundwater-monitoring wells will be sampled along the property boundaries as described in the Groundwater Compliance Monitoring Program, Exhibit F, developed for the site. This is to ensure continued protection of the surface water and monitor plume concentrations dissolved in groundwater within property boundaries.

2.2 INTERIM REMEDIATION

Interim actions were recently (December 1996 through April 1997), implemented at the site due to the estimated 48,000 spill of gasoline in the C, Yard. The result of the Supplemental Investigation of the C Yard Fuel Spill indicate that approximately 7,200 gallons of gasoline were initially recovered from the ground surface and about 4,900 gallons was recovered from the water table. The remainder of the spill probably volatilized directly into the atmosphere or is adsorbed in soil. This means that part of the fuel spill may remain in the soil and could be released through volatilization, in a dissolved phase, and as separate phase hydrocarbon. Three groundwater sampling events were completed during the interim actions. Detected concentrations of TPH-gasoline dissolved in the groundwater ranged from non-detect to

79,600 ppb (79.6 mg/l), while benzene ranged from non-detect to 11,800 ppb (11.8 mg/l). Cut-off trenches and dual phase extraction wells for remote and active extraction of product and groundwater were used on site to contain the spill to manageable conditions pending final remedies in the CAP. Additional remediation for the GATX site is proposed in this CAP.

3.0 SUMMARY OF CLEANUP STANDARDS

The Model Toxics Control Act (MTCA) cleanup regulations provide that a cleanup action must comply with cleanup levels for selected hazardous substances, points of compliance (POCs), and applicable or relevant and appropriate state and federal laws (ARARs) [Washington Administrative Code (WAC) 173-340-710]. The final indicator hazardous substances identified for the site, the associated cleanup levels, and ARARs are briefly summarized in the following sections. POCs are outlined in the Groundwater Compliance Monitoring Plan.

3.1 Indicator Hazardous Substances

Indicator hazardous substances (IHSs) were identified for the GATX Harbor Island Terminal site as part of the FFS using the criteria outlined in WAC 173-340-708(2). The final list of IHSs for groundwater and soil are a subset of the contaminants detected at the site. The final soil IHSs are TPH compounds, arsenic and lead for surface soil; and benzene, ethylbenzene, toluene, xylenes, TPH-gasoline, TPH-diesel, and TPH-oil for subsurface soil. The final groundwater IHSs are benzene, toluene, ethylbenzene, xylenes, TPH-gasoline, TPH-diesel, TPH-oil, arsenic, lead, and free product.

3.2 Cleanup Levels

Soil and groundwater cleanup levels for the final IHSs were developed based on the industrial zoning of the site and the determination by Ecology that there is no current or planned future use of the groundwater for drinking water purposes. The beneficial use of the site groundwater is the protection of the adjacent surface waters and its ecosystems and to prevent dissolved petroleum hydrocarbon elevated plume concentrations in groundwater from migrating off site and adversely impacting adjacent properties.

Surface soil (0 – 6 ") cleanup levels were determined based on the EPA ROD for Harbor Island. Ecology concurred with EPA's ROD in 1994. These criteria are:

Arsenic	32.6 mg/kg

Lead	1,000 mg/kg

Surface soil cleanup levels for BTEX and TPH were not developed because the capping or excavation of the affected surface soil areas of the C and B Yards, will effectively address the soil direct contact pathway for areas impacted by the recent petroleum hydrocarbon spill.

The fate and transport modeling of the dissolved petroleum constituents (benzene) associated with the in-land subsurface TPH soils show that the dissolved petroleum constituents do not pose a threat to the surface water at the shorelines.

The subsurface soil action level for TPH is therefore a secondary concern, and it is set to meet the remedial action objective of protecting surface water at the property boundaries by improving general groundwater conditions at the source, and by enhancing restoration of the impacted area through natural biodegradation.

The subsurface soil action level for TPH at the C Yard associated with the spill of 1996 is:

Total TPH	10,000 mg/kg

This action level set forth in the EPA ROD for TPH on Harbor Island.

The subsurface soil action level for TPH for the rest of the site is:

Total TPH	20,000 mg/kg

This action level is the EPA (A Guide to Corrective Action, EPA, May 1995) recommended lower threshold criteria to enable natural attenuation to successfully reduce total petroleum hydrocarbons concentrations in soils to acceptable levels within a reasonable restoration time period. These TPH action levels are also protective for other chemical constituents in petroleum product (i.e., BTEX).

Groundwater cleanup levels were determined by Ecology to be surface water standards that are protective of aquatic organisms in Elliott Bay. These surface water standards are the adopted ambient water quality criteria (WAC 173-201A and Section 304 of the federal Clean Water Act). The category of ambient water quality standards selected as relevant and appropriate for the site are the chronic criteria for protection of aquatic organisms (WAC 173-201A-040). Surface water standards are not established for TPH; therefore, the groundwater cleanup levels for TPH-G, TPH-D, and TPH-O were selected as protective cleanup goals at this time and they are:

Product	No Sheen

Benzene	0.071 mg/L
Ethylbenzene	29.0 mg/L
Lead	0.0058 mg/L
Toluene	200.0 mg/L
TPH-G	1.0 mg/L
TPH-D	10 mg/L
TPH-O	10 mg/L

Dissolved lead in groundwater beneath Harbor Island is attributed to offsite sources (former lead smelter).

3.3 ARARS

The selected cleanup action will comply with federal, state and local ARARs. Applicable requirements are federal and state laws or regulations that legally apply to a hazardous substance, cleanup action, location, or other circumstance at the site. Relevant and appropriate requirements are those federal and state regulations that do not legally apply but address situations sufficiently similar that they may warrant application to the cleanup action. Potential ARARs pertinent to remediation alternatives include substantive requirements of chapters 70.94, 70.95, 70.105, 75.20, 90.48, and 90.58 RCW. Others are identified and defined in the FFS (Pacific Environmental Group, Inc. 1997) and they include the Model Toxics Control Act (WAC 173-340), the Washington State Dangerous Waste Regulations (WAC 173-303, Washington State Water Quality Standards for Surface Water (WAC 173-201A), and laws requiring or authorizing local government permits or approvals for the remedial action implementation.

4.0 SUMMARY OF SELECTED CLEANUP ACTION ALTERNATIVES

Site-specific cleanup action alternatives were developed and analyzed for soil and groundwater in the final FFS (Pacific Environmental Group, Inc. 1997) to ensure the protection of human health and the environment at the site. Based on this initial screening and evaluation of supplemental data collected during the FFS, the following alternatives were selected for further evaluation. Part of the remedy selection included the development of estimated costs for each cleanup action alternative. These cost estimates have been reviewed by Ecology as part of the remedy selection process.

- **Alternative 1 - No Further Action.** This alternative includes cleanup actions performed at the Terminal to date, groundwater monitoring as part of the island-wide operable unit, passive product recovery, and completed interim actions.
- **Alternative 2** - In-situ Treatment of Soils that may include:
  - **2A** Soil Vapor Extraction (SVE)
  - **2B** Soil Flushing
  - **2C** Air Sparging
  - **2D** Natural Attenuation/Intrinsic Biodegradation
- **Alternative 3** - Soil Excavation and Treatment or Disposal
- **Alternative 4** - Surface Soil Capping with Asphalt or Membrane Fixation
- **Alternative 5** - Active and Passive Product Recovery
- **Alternative 6** - Groundwater Monitoring

4.1 Proposed Cleanup Alternatives

The proposed cleanup action for the site was selected based on a comparison of each cleanup action alternative with the following criteria (WAC 173-340-360(2) and (3)) and consideration of the MTCA remedy selection requirements:

- Overall Protection of Human Health and the Environment
- Compliance with Cleanup Standards
- Use of Permanent Solutions to the Maximum Extent Practicable
- Compliance with ARARs
- Provision for Compliance Monitoring
- Provision for Reasonable Restoration Time Frame

THE PROPOSED CLEANUP ALTERNATIVES ARE: 2A, 2C, 2D, 3, 4, 5, & 6.

Detailed descriptions of each alternative with engineering drawings, specifications and justifications will be presented in the Remedial Design phase for the site. A conceptual description of each element and how it will be implemented at the site is presented below:

Surface Soil

- 3 inches Asphalt Capping or its Equivalent of Portland Cement Soil Fixation followed with TCLP testing to ensure that fixation is complete.

- Soil excavation and disposal

Subsurface Soil

- Excavation of Accessible TPH hot spots to the extent practicable and disposal/treatment
- Natural/Intrinsic Biodegradation of residual contaminated soils
- Soil vapor extraction

Groundwater

- Dual-phase extraction of groundwater and product or extraction of product and groundwater separately
- Air Sparging

Floating Product

- Active and passive point-source extraction
- Partially-penetrating down-gradient vertical barrier to stop product migration
- Combinations of the above options

This group of proven technologies will be implemented at the GATX site as necessary to meet all site cleanup criteria. Detailed descriptions and evaluations with engineering drawings, specifications and justifications will be presented in the Remedial Design document that GATX will prepare for the site. The following is a detailed conceptual discussion of the preferred remedial action alternatives proposed for the site.

Surface Soil:

Asphalt Cap/Soil Fixation. The preferred remedial alternative for addressing lead and arsenic impacted surface soils may include placing a cap of asphalt (3 inches) or its equivalent of on-site fixation by incorporating the soils into Portland-cement concrete (Figure 2). This will be accomplished by excavating those areas that exceed surface soils action levels to a depth of 6 inches. The excavated soils which are primarily fine sands, will then be fixated and placed on site with an imported Portland-cement concrete which will utilize the sandy soils matrix to form a binding aggregate.

The existing data indicates that approximately 70% of the surface soils in the C Yard, and 40% of the surface soils in the B Yard, may need to be remediated. Before excavation or capping/fixation is begun, additional soil sampling (Supplemental Studies), will be performed to refine the boundaries between soils which are above and below action levels for lead and arsenic. Once precise boundaries are identified, surface soils will be excavated,

capped, or incorporated into concrete using standard concrete-mixing equipment. Samples of the resulting concrete will be tested by the TCLP method to confirm that immobilization of the contaminants of concern are complete. This proposed alternative will effectively address the surface to groundwater infiltration, and leaching pathways, direct contact for site workers and surface runoffs.

Subsurface Soil:

Soil Vapor Extraction (SVE) and Natural Biodegradation. Remedial Alternative 2D, 3 and 6, (SVE, excavation of accessible TPH hot spots to the extent technically practicable, institutional controls and degradation of organic contaminants by intrinsic bioremediation/natural attenuation) has been selected for the subsurface site soils to ensure continued protection for the future. To ensure and document that the primary and the secondary concerns for the site are met (continued protection of the surface water and its ecosystem, and containment of plumes within property boundaries), groundwater monitoring will be implemented to monitor the ongoing intrinsic degradation/natural attenuation of TPH in soils as part of the selected cleanup action. A deed restriction will also be implemented to prevent inappropriate future use of the site (Exhibit D).

The proposed cleanup action is conceptually designed to remove volatile hydrocarbons from the vadose zone beneath the site to prevent vapor migrations to offices and secondary structures. This technology will be used as needed when appropriate to ensure that the soil vapor to air pathway is interrupted in areas where a hazard exists. The SVE system will also maintain elevated oxygen concentrations within the vadose zone. Operation of the SVE and other technology based applications and systems in this proposed CAP will be discontinued through performance, cleanup and technology standards evaluations as part of the Compliance Monitoring Program to be developed for the site. Details of the criteria and frequency for such evaluations for discontinuing the SVE and other technology based applications and systems for the site will be developed as part of the compliance-monitoring program for the GATX site.

Excavation & Location of Accessible Impacted Soils and Volumes.

A Yard:

Upon successful completion of the free product removal from the Yard A, a subsurface TPH soil confirmation analytical sampling will be conducted north of A-29 and northwest of A-22, which is northwest and southwest of the Garage Building in the A Yard. TPH hot spots up to 20,000 mg/kg are detected to be present at these locations. If the analytical results of the TPH subsurface soil confirmation sampling confirm TPH hot spots are present at these locations, excavation of the accessible TPH hot spots using the 20,000 mg/kg action levels in the, A Yard subsurface soils will be implemented to the extent technically practicable (Figure 3).

B Yard:

Excavate to the extent technically practicable, accessible TPH hot spots using the action levels of 20,000 mg/kg in the B Yard subsurface soils affected by historical spills without undermining the integrity of the tanks next to the excavation areas. The two TPH hot spots designated for excavation to the extent technically practicable in the B Yard subsurface soil are, 1) SS-28, which is located between tanks 18 and 21, 2) SS-9, which is located southwest of tank 22. (Figure 3). The total volume of the accessible TPH subsurface soil hot spots subject to excavation to the extent practicable in Yard B is approximately, 380 cubic yards.

C Yard:

Excavate to the extent technically practicable, accessible TPH hot spots using the action levels of 10,000 mg/kg in the C Yard subsurface soils affected by the recent spill without undermining the integrity of the tanks next to the excavation areas. The seven TPH hot spots designated for excavation to the extent technically practicable in the C Yard subsurface soils are identified in the following locations, 1) MW-4, SS-17, SS-18, which is southeast of tank 44, 2) SS-2, which is northwest of tank 44, 3) S-6, which is northwest of tank 37, 4) SS-2 and SS-13, which is between tanks 42 and 39, 5) S-5 and S-8, which is between tanks 35 and 37, 6) S-10, which is north of tank 35, 7) S-12, which is southwest of tank 35. (Figure 3). The total volume of the accessible TPH subsurface soil hot spots subject to excavation to the extent technically practicable in the Yard C is approximately 930 cubic yards.

Soil Excavation and Off-Site Disposal or Capping

Excavated TPH subsurface soil hot spots will be treated on/off site, and/or disposed at an approved disposal facility. Backfilling of subsurface soils will be comprised of clean fill material or treated material which will be tested before reuse on the site to ensure that it meets minimum requirements under the regulation for TPH. Excavation, disposal and back filling will be accomplished through the legal framework of the Consent Decree.

Excavation of the accessible TPH subsurface soil hot spots that are ongoing source to groundwater contamination will improve general groundwater conditions at the source, enhance restoration time for the impacted areas and enhance biodegradation of the residual TPH in the subsurface. In addition, the groundwater-monitoring program will be implemented to monitor the ongoing intrinsic degradation/natural attenuation of the residual TPH in soils as part of the selected cleanup action. A deed restriction will also be implemented to prevent inappropriate future use of the site (Exhibit D).

Groundwater:

A Yard: Floating product was historically detected in groundwater sampling results at the following monitoring wells in the A Yard; A-3, A-10, A-14, A-15, A-19, A-20, A-21, A-26, A-27, and A-28.

Based on the groundwater sampling results of 1997 and 1998, floating product is detected in the following monitoring wells in the A Yard: A-4, A-6, A- 9, A-13, A-16, A-22 and A-29. Based on the current groundwater sampling results of 1998, dissolved TPH-G above the State Surface Water Standards and protective cleanup goals was detected at A-23 and A-28 in the, A Yard.

B Yard: Floating product was historically detected in groundwater sampling results at monitoring Well-9 in the B Yard. Based on the current groundwater sampling results of 1997 or 1998, floating product is detected at monitoring Wells 12 and 15 in the B Yard, while dissolved TPH-G above the State Surface Water Standards and protective cleanup goals was detected in only one well, MW-7, in the B Yard.

C Yard: Floating product was historically detected in groundwater sampling results at the following monitoring wells in the C Yard; Well-11, MW-4, Well-25, and T-10. Based on the current groundwater sampling results of 1997 (these wells were not sampled in 1998 sampling protocol), floating product is detected in the following monitoring wells in the, C Yard: Well 20, 21, 22, 25, and 27. Based on the current groundwater sampling results of 1998, dissolved TPH-G above the State Surface Water Standards and protective cleanup goals was detected at MW-3, Well-24, Well-25, T-5, T-18, and T-19 in the C Yard.

D Yard: Floating product was historically detected in groundwater sampling results at monitoring Well-17 in the D Yard. Based on the current groundwater sampling results of 1998, dissolved TPH-G above the State Surface Water Standards and protective cleanup goals was detected at MW-14, Well-17, T-13, T-15 and T-17 in the D Yard.

Floating Product Recovery

A pilot study may be necessary to define effective cone of influence, final design configuration, specifications, and justifications to remove floating product from Yards A, B, and C. If one is determined to be necessary, the data will be presented in the Remedial Design phase for the GATX site.

Partially-Penetrating Vertical Barriers. The preferred remedial alternative for addressing separate-phase hydrocarbons identified in selected areas of the A Yard (Figure 1), is the use of partially penetrating down-gradient migration barriers coupled with extraction of the product as it collects against the barrier. This alternative provides positive control and capture of product, yet does not create new problems in dealing with the extraction, treatment, and disposal of groundwater. The partially penetrating barrier will be used to intercept product along dominant groundwater flow paths of the property boundary. In areas with localized product, point-source removal will be implemented with oil skimming alternatives.

By partially penetrating the upper aquifer on the down-gradient side of the free-product plume, the migration of free product will be stopped at the barrier. The particular construction technique(s) used to create the barrier will be selected based on site constraints in each location (depth to water, below-grade utilities, pipeline and tank locations, buildings, etc.).

In areas of shallower groundwater, a subsurface concrete wall or an impermeable membrane (e.g. high-density polyethylene) will be installed within a temporary trench. Product extraction piping will also be installed within the trench and then the trench will be backfilled. In areas of deeper groundwater, driven plastic or bentonite panels is more attractive as are several proprietary single-pass trenching/membrane placement/backfilling systems. With either of these construction techniques, product extraction piping will take the form of individual wells placed immediately upgradient of the barrier. Throughout the site, free product shall be removed from the water table to the maximum extent practicable when ever present. The final design configuration, specifications, and justifications for this partial penetrating barrier technology to address the separate-phase hydrocarbons identified in selected areas of the A and C Yards will be presented in the Remedial Design phase for the GATX site.

Active Point Source Product Extraction. In areas of the A, B, C and D Yards where product is localized, it will be removed through point-source extraction (Figure 1). An active product skimming technique will be selected for each particular location. In areas with low-density, low-viscosity product, a density-float will be used as the intake of an above-grade pneumatic pump for product extraction. For more viscous, higher density (closer to 1.0) product, or for product whose thickness has already been greatly reduced, a belt-based skimming system would be utilized. Such systems are able to reduce product thickness to less than 0.01 feet and are able to handle viscous product which would foul the intake of a density float system. The final design configuration, specifications, and justifications for the wells located in A, B, C, and D Yards to be used for the active point-source extraction technology to address the localized separate-phase hydrocarbons will be presented in the Remedial Design phase for the GATX site.

Passive Product Recovery. Passive product recovery will be performed at selected locations of the A, B, C, and D Yards where necessary until there is no evidence of measurable petroleum hydrocarbon sheen. Passive product recovery is intended to supplement the active product recovery system as needed. Throughout the site, free product shall be recovered from the water table whenever present to the maximum extent practicable.

Extraction & Treatment of Groundwater. Groundwater extraction may be evaluated as part of the product skimming system to depress the water table and accelerate product movement toward the extraction wells. During this active product recovery, or the point source extraction alternative selected for the A, B, C, and D Yards, petroleum

hydrocarbons dissolved in groundwater are usually recovered during this process. If groundwater is generated, the recovered petroleum hydrocarbons in groundwater will be separated from the product through gravity separation and the water discharged to the King County sewer system under a King County discharge permit or disposed of at an approved facility. Additional treatment (carbon adsorption) will only be used if needed to meet discharge limits.

Air Sparging of Groundwater & Natural Biodegradation of Residual TPH in the Saturated Soil. Air Sparging is a proven technology for removing product from below the water table. The injection of air below the water level and into hydrocarbon-impacted soils accelerates the mobilization and recovery of the residual hydrocarbons. Therefore, the injection of air will elevate the oxygen levels (in this instance, dissolved oxygen) and will improve conditions for aerobic hydrocarbon degradation within the saturated zone. Additionally, the air sparging reduces dissolved-phase hydrocarbon concentrations as the volatile constituents are stripped from the groundwater and captured by the SVE system described above. A final design of a full-scale for this technology, coupled with dual-phase extraction technology systems, will meet the remedial objectives outlined in this proposed CAP for the site groundwater. A pilot study at the A, and C Yards may be necessary to define effective cone of influence, final design configuration, specifications, and justifications will be presented in the Remedial Design phase for the GATX site.

4.2 Other Controls.

Access Restrictions. The site is an active operating facility and has restricted access (fences, signs, work permit requirements) as part of standard operations. These restrictions are in place 24 hour/day and 7 days/week. The Access and Operating Procedures for the GATX site is contained in Exhibit C, of the Consent Decree.

Institutional Controls. Institutional controls are measures undertaken to limit or prohibit activities that may interfere with the integrity of a cleanup action or result in exposure to hazardous substances at the site. Such measures are required to assure continued protection of human health and the environment when a cleanup action results in residual concentrations of IHS that exceed MTCA Methods A or B cleanup levels and where conditional points of compliance are established. These institutional controls include placement of a deed restriction on the property use to industrial purposes or interfering with remedial actions implemented in this proposed CAP. A copy of a proposed Restrictive Covenant for the GATX site is contained in Exhibit D, of the Consent Decree.

Work Construction. Schedule to begin work under this proposed CAP and other construction activities for the Remedial Design are contained in Exhibit E, of the Consent Decree. Work construction at the GATX site will be conducted under a Health and Safety Plan prepared under WAC 173-340-810.

4.3 Contingency Plans.

A contingency plan serves as a "backup" remediation plan in the event that the Preferred Option fails or proves ineffective in a timely manner (5 years). A Contingency plan that contains conceptual engineering plan and design will be initiated and implemented within 30 days of meeting any of the following criteria;

- If the results of the groundwater monitoring program after implementing the Preferred Corrective Options indicate elevated IHS concentration above cleanup levels beyond the specified restoration time frame of 5 years,
- or contaminants attributed to the Terminal are identified in point of compliance wells located outside of the original plume boundary, indicating renewed contaminant migration,
- or the elevated plume concentrations are not decreasing at a sufficient rate to ensure that the cleanup levels for the site will be met in the time authorized in this CAP.

Inland Groundwater Contingency Plan for Property Boundary Shall Include:

- Use of extraction well points, source identification and removal (supplemented by treatment) to prevent adverse impacts to offsite properties.
- Expand hydraulic control to ensure removal of free product from the water table

This contingency plan shall be outlined in detail in the Groundwater Monitoring Program, Exhibit F, developed for the site.

4.4 Groundwater Compliance Monitoring.

The attached groundwater-monitoring plan, Exhibit F, is consistent with WAC 173-340-410 and includes protection monitoring, performance and confirmational monitoring. The overall objective of the compliance monitoring and sentry wells downgradient of the product and dissolved plumes and on the property boundaries is to provide both Ecology and GATX with early warning of potential contamination migration and basis for additional remedy through implementation of contingency plans, if necessary. The types of compliance monitoring to be conducted include the following:

Protection Monitoring to confirm that human health and the environment are adequately protected during construction and the operation and maintenance period of the cleanup action.

Performance Monitoring to confirm that the cleanup action has attained cleanup standards and other performance standards.

Confirmational Monitoring to confirm the long-term effectiveness of the cleanup action once cleanup actions and other performance standards has been attained.

Product Monitoring. Selected wells will be evaluated in the compliance groundwater-monitoring program to monitor for product thickness as part of the performance standard evaluation for the preferred remedial alternatives for the site. Throughout the site, free product shall be removed from the water table when ever present.

Points of Compliance:

Soil. The determination of adequate soil treatment will be based on the remedial action's ability to comply with the groundwater cleanup standards for the site, to meet performance standards designed to minimize human health or environmental exposure to soils above cleanup levels, and to provide practicable treatment of contaminated soils. Performance standards designed to minimize human and environmental exposure to soils above the cleanup levels set for the site shall include: a covenant on the property which limits the site to industrial use only and prohibits any activity which may interfere with the protectiveness of the remedial action.

Groundwater. The achievement of cleanup levels in groundwater shall be measured at points of performance and compliance located within the product plume area and at the downgradient edge of the property boundary. The wells at the downgradient edge of the site are considered conditional points of compliance wells. These points of compliance and performance shall consist of a network of monitoring wells located in the product plume area and on the downgradient property boundary. Other wells (sentry wells) situated off-site will also be used to document plume migration, performance standards, and to warn of any unanticipated change in off-site groundwater conditions. Exact location of these wells are identified in the Groundwater Compliance Monitoring Program, Exhibit F, for the site.

5.0 JUSTIFICATION FOR THE SELECTED REMEDIAL ACTION

The cleanup action, as proposed, is designed to accomplish the following requirements: protect human health and the environment; comply with cleanup standards per WAC 173-340-700; comply with applicable state and federal laws per WAC 173-340-710; provide compliance monitoring per WAC 173-340-410; use permanent solutions to the maximum extent practicable per WAC 173-340-360 (2), (3), (4), (5), (7), and (8); provide a reasonable time restoration per WAC 173-340-360 (6) and consider public concerns per WAC 173-340-600. The following sections discuss how the proposed cleanup action will meet these requirements.

Protection of Human Health and the Environment.

Removal of accessible TPH-impacted soil hot spots in the subsurface will protect the environment by expediting site restoration as groundwater is improved at the hot spot source. Removal or capping of lead and arsenic surface soils will protect the environment and human health by effectively eliminating the soil to air particulate pathway. Recovering product associated vapor and dissolved petroleum hydrocarbons in groundwater will protect human health and the environment by preventing migration to the surface water and adverse impacts to adjacent properties, protecting day workers from vapors, and expediting site restoration. The Compliance Monitoring Plan, Exhibit F, is an added protection to monitor if remedial action objectives are being met. If not, then Contingency Plans for the site will be triggered appropriately.

Comply with Cleanup Standards per WAC 173-340-700 through 760.

The overall goal of cleaning up groundwater for the protection of surface water quality will be met. Fate and transport modeling shows the inland in-situ bioremediation will act to destroy soil contaminants, which may act as an ongoing source of groundwater contamination. The goal of soil cleanup standards for petroleum hydrocarbons is to protect groundwater resources (surface water quality and associated ecosystem). While the numerical soil cleanup standards developed through the Matrix may not be reached throughout the site, the preferred alternative that include excavation of accessible TPH-impacted soil hot spots in the subsurface, active vapor extraction to address residual hydrocarbon in the saturated zone, and active and passive product recovery from the smear zone, will result in substantive compliance with the soil cleanup standards by reducing concentrations of contaminants in soils to levels that will support and maintain the attainment of groundwater quality standards.

Compliance with Applicable State and Federal Laws per WAC 173-340-710.

The preferred alternative meets all state and federal laws. All activities carried out to implement the preferred alternative will meet any laws requiring or authorizing local government permits or approval for the remedial action on the site.

Provide Compliance Monitoring per WAC 173-340-410.

The preferred alternative includes the provision for long-term monitoring to ensure that groundwater continues to meet cleanup standards after remedial actions have been completed. During the remedial actions, performance monitoring will be conducted to confirm that cleanup actions have attained cleanup standards and treatment goals. After remedial actions, performance monitoring will be conducted to confirm and ensure that

cleanup actions have attained cleanup standards and performance standards. Protection monitoring will be used to ensure that human health and the environment are being adequately protected during construction and operation of the cleanup actions. The specifics and details of these monitoring activities, locations, number and type of analyses, frequency, duration, and contingency plans are described in the Compliance Groundwater Monitoring Plan for the site. Schedule for this activity is contained in Exhibit E, of the Consent Decree.

Use of Permanent Solutions to the Maximum Extent Practicable per WAC 173-340-360 (4), (5), (7), and (8).

The permanent solutions (excavation of accessible TPH soil hot spots in the subsurface to the extent technically practicable; capping of the lead and arsenic with 3 inches of asphalt or its equivalent of soil fixation with Portland-cement in the surface soil) will permanently and effectively remove the pathways of soil to air, infiltration and leaching into the groundwater and surface runoffs. Product recovery, groundwater treatment and reuse are permanent treatment technologies that will effectively improve groundwater quality.

Provide for a Reasonable Restoration Time Frame per WAC 173-340-360 (6).

In view of the TPH subsurface soil hot spots that generate dissolved petroleum hydrocarbons in the groundwater above cleanup standards, Ecology believes that natural attenuation alone will not be sufficient to provide a reasonable restoration time frame for the site.

The following alternatives will provide for a reasonable restoration time frame of 5 years for the site: natural attenuation with active excavation of accessible TPH subsurface soil hot spots (e.g., source control), excavation or capping of lead and arsenic in the surface soils and free product removal. This 5 year restoration time frame for the site groundwater is protective of the surface water and its ecosystem (primary concern) and adjacent properties (secondary concerns). The projected 5 year restoration time frame is reasonable, and will allow for a meaningful statistical evaluation of compliance monitoring data.

For areas of the site that have free product, restoration time begins after free product is removed from the water table and excavation of accessible TPH soil hot spots has been performed.

If implementation of the Contingency Plan for the site is deemed necessary based on the results of the groundwater compliance monitoring and other performance standards, the restoration time clock for the site begins 30 days after implementation of the contingency plan. Where contingency plan implementation is not necessary, restoration time for the site is 5 years and the restoration clock begins 30 days after implementation of the Preferred Cleanup Action for the site. This is the time required to reduce residual TPH in the subsurface to reasonable levels and groundwater quality below state and federal standards

and to collect meaningful statistical data to evaluate groundwater compliance with remedial objectives.

Other specific time lines are outline in the Schedule, Exhibit E, and is further detailed in the Compliance Groundwater Monitoring Program, Exhibit F, for the GATX Site.

Consider Public Concerns per WAC 173-340-600.

The public is given the opportunity to comment on this CAP during a 30-day public comment period. upon completion of remedial milestones in the cleanup process. This review will include the following additional documents: the Consent Decree, Covenants and Restrictions, Compliance Monitoring Plan, and Project Schedule. The Remedial Design may be subject to a separate public comment period in the future. Ecology will consider all comments received. At the end of the comment period, Ecology will prepare a responsiveness summary listing each comment received and Ecology's response to the comment.

6.0 IMPLEMENTATION SCHEDULE

Exhibit E, of the Consent Decree contains an outline of the schedule for the cleanup activities. The Consent Decree will become effective once signed by the Court. As outlined in the schedule, specifics on detailed analysis may be needed to complete the remedial design. Ecology has review and approval authority for these documents and the public will have an opportunity to participate in each milestone requiring public comment through the 30-day public period.

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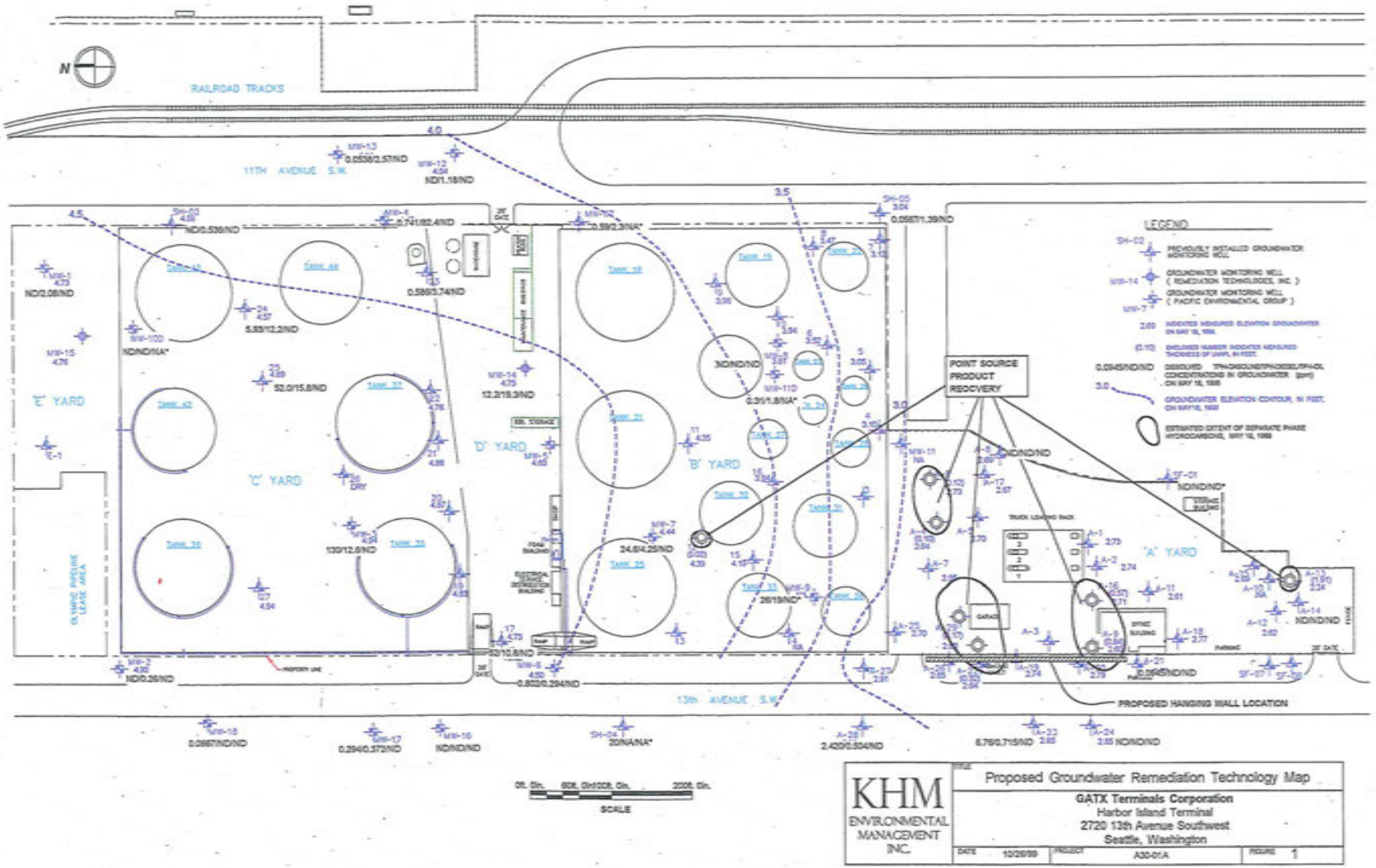
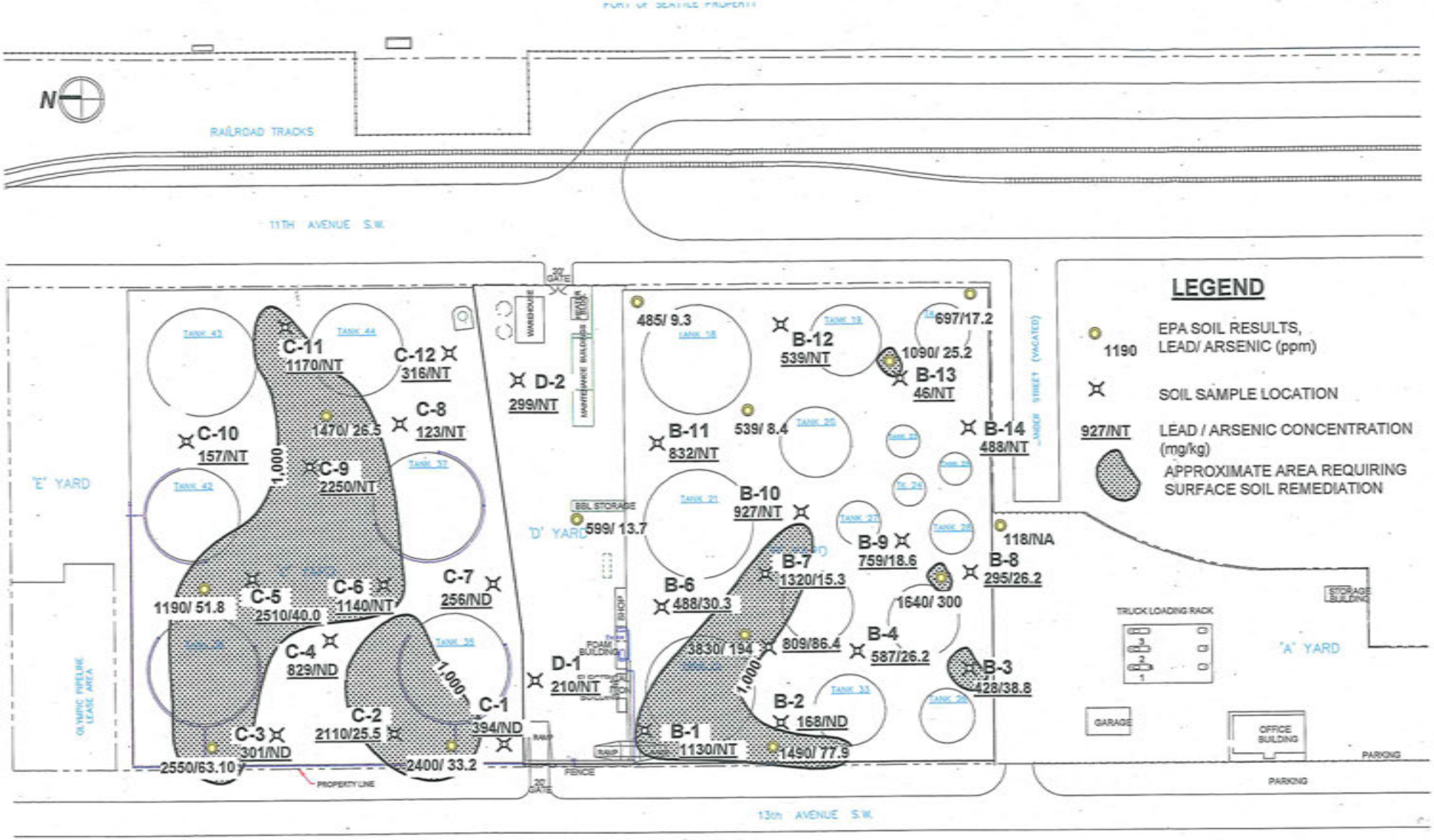


KHM ENVIRONMENTAL MANAGEMENT INC.	Proposed Groundwater Remediation Technology Map		
	GATX Terminals Corporation Harbor Island Terminal 2720 13th Avenue Southwest Seattle, Washington		
	DATE 10/29/99	PROJECT A30-01A	FIGURE 1



0ft. 0in. 60ft. 0in 100ft. 0in. 200ft. 0in.

SCALE

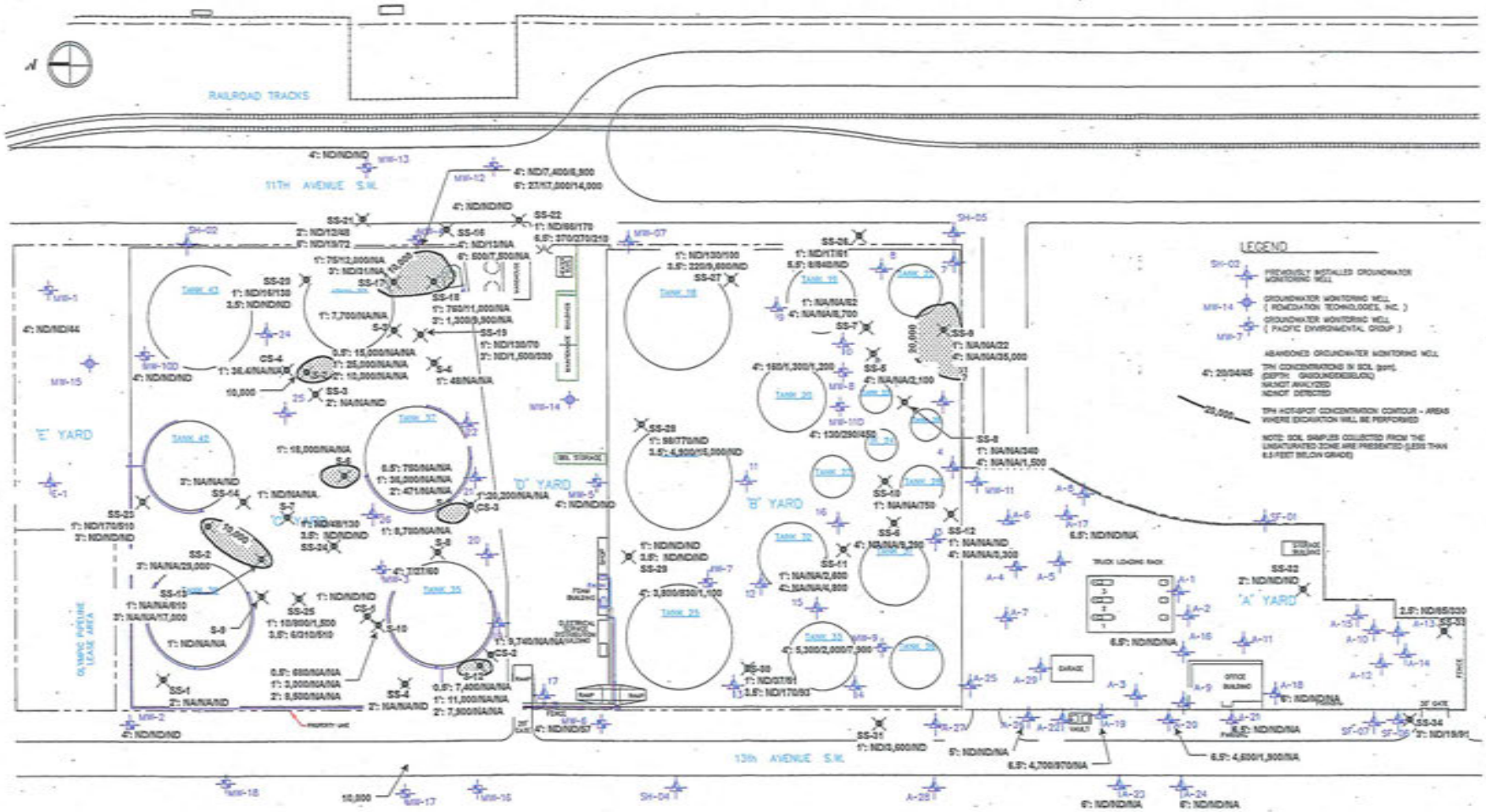
KHM ENVIRONMENTAL MANAGEMENT INC.

TITLE

Proposed Shallow Soil Excavation Map

GATX Terminals Corporation
Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

DATE	10/26/99	PROJECT	A30-01A	FIGURE	2



KHM ENVIRONMENTAL MANAGEMENT INC.

TITLE	Proposed TPH Hot-Spot Soil Excavation Map
	GATX Terminals Corporation Harbor Island Terminal 2720 13th Avenue Southwest Seattle, Washington
DATE 10/26/99	PROJECT A30-01A
FIGURE 3	

EXHIBIT D
RESTRICTIVE COVENANT

GATX Terminals Corporation
2720 13th Avenue Southwest, Seattle, Washington

This Declaration of Restrictive Covenant is made pursuant to RCW 70.105D.030(l)(f) and (g) and WAC 173-340-440 by GATX Terminals Corporation. ("GATX"), its successors and assigns.

Remedial action (hereafter "Remedial Action") will be undertaken at the property that is the subject of this Restrictive Covenant. The Remedial Action is described in the Final Cleanup Action Plan, GATX Harbor Island Terminal "CAP". The CAP is attached as Exhibit B to the Consent Decree entered in State of Washington, Department of Ecology vs. GATX Terminals Corporation, King County, Case No. **00-2-07760-2SEA**

This Restrictive Covenant is undertaken pursuant to RCW 70.105D.030(l)(f) and (g) and WAC 173-340-440 because after fixation of materials, it is expected that: 1) residual concentrations of lead and arsenic will remain beneath fixated material for the surface soil, 2) separate phase, mobile petroleum hydrocarbon compounds ("floating product") and residual concentrations of dissolved total petroleum hydrocarbons and its constituents (e.g. benzene) will exceed the Surface Water Quality standards for groundwater established under WAC 173-340-720, and 3) total petroleum hydrocarbon contaminated soils will be left in the subsurface at the Site.

The undersigned, GATX, is the fee owner of real property (hereafter "Property") in the County of King, State of Washington, that is subject to this Restrictive Covenant. The Property is legally described in Attachment A of this Restrictive Covenant and made a part hereof by reference.

GATX makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that, unless the subject limitations and restrictions are removed as provided herein, such declarations shall constitute covenants to run with the land, as provided by law and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereafter "Owner").

Section 1.

a. The Property shall be used only for industrial uses, as described in RCW 70.105D.020(23) or as allowed under the City of Seattle's zoning regulations codified in the City of Seattle as of the date of this Restrictive Covenant or as such statute or regulations may be modified after the date of this Restrictive Covenant.

b. No groundwater may be taken for any use from the Property that is inconsistent with the Remedial Action implementation.

Section 2.

a. As of the date the Consent Decree was entered (hereinafter "Effective Date"), a portion of the Property contains total petroleum hydrocarbons in the soil, dissolved total petroleum hydrocarbons in the groundwater, floating product on the water table, vapors in the subsurface, lead and arsenic on the surface soils.

b. Specifically, elevated soil concentrations of residual petroleum hydrocarbons and dissolved residual of petroleum hydrocarbons and its constituents are present in Yards A, B, C, and D of the above storage tank areas, next to tanks no. 43, 44, 42, 37, 39, and 35 of the C Yard, and west of the D Yard, for the B Yard, next to tanks 19, 21, 27, 32, 31, 26, 33, and 25, and for the A Yard, between the Light Oil Rack and the Office. These locations are shown in the enclosed figures. Also, it is expected that, after fixation, concentrations of lead and arsenic above Harbor Island action levels of 1000 mg/kg and 32.6 mg/kg respectively will be present beneath the fixated materials portions of the tank farm of the B, and C, Yards, of the site as shown in the enclosed maps.

The Owner shall not alter, modify, or remove the existing structure(s) in any manner that may result in the release or exposure to the environment of contaminated soils, groundwater, or vapors existing at the site as of the Effective Date of the Consent Decree in a manner inconsistent with the Remedial Action implementation or create a new exposure pathway that endangers the public health and the environment without prior written approval from Ecology, which approval will not be unreasonably withheld under RCW 70.105D.030(l)(f) and (g) and WAC 173-340-440. Site workers conducting construction activities within the protective zone of contamination will be instructed on precautionary actions to avoid direct contacts with contaminated soils, groundwater or exposure to vapor and fumes and on appropriate methods for handling such wastes.

c. Consistent with RCW 70.105D.030(l)(f) and (g) and WAC 173-340-440, any activity on the property that may interfere with the viability of the Remedial Action, and any activity that may result in the release of a hazardous substance that was contained as part of the Remedial Action are prohibited without written approval from Ecology, which approval shall not be unreasonably withheld. Site workers conducting construction activities within these areas will follow the Health and Safety Plans pursuant to WAC 173-340-810. Also they will be instructed on precautionary actions to avoid direct contact with contaminated soils, vapors and groundwater to ensure protection of site workers.

Section 3. Only to the extent required by RCW 70.105D.030(l)(f) and (g) and WAC 173-340-440, the Owner of the Property must give thirty (30) day advance written notice to Ecology of the Owner's intent to convey any interest in the Property or to enter into a lease for all or any part of the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Remedial Action.

Section 4. Only to the extent required by RCW 70.105D.030(l)(f) and (g) and WAC 173-340-440, the Owner must restrict leases of all or any part of the Property to uses and activities consistent with the Restrictive Covenant and notify all lessees of the restrictions on the use of the Property.

Section 5. Only to the extent required by RCW 70.105D.030(l)(f) and (g) and WAC 173-340-440, the Owner must notify and obtain approval from Ecology prior to any use of the Property that is inconsistent with the terms of this Restrictive Covenant. Ecology may approve any inconsistent use only after public notice and comment. Approval by Ecology pursuant to Section 5 shall not be unreasonably withheld. The Restrictive Covenant shall be amended to reflect any changes approved by Ecology.

Section 6. Only to the extent required by RCW 70.105D.030(l)(f) and (g) and WAC 173-340-440, the Owner shall allow authorized representatives of Ecology the right to enter the Property at reasonable times for the purpose of evaluating the Remedial Action; to take samples, to inspect the Remedial Actions conducted at the Property, and to inspect records that concern the Remedial Action. Ecology will provide GATX advance notice of its entry onto the Site when feasible. Ecology shall adhere to Access and Operating Procedures attached as Exhibit C, and applicable Health and Safety Plans to be developed for the Cleanup Action implementation.

Section 7. The Owner of the Property reserves the right under WAC 173-340-440 to record an instrument that provides that this Restrictive Covenant shall no longer limit use of the Property or be of any further force or effect. However, such an instrument may be recorded only if Ecology, after public notice and opportunity for comment, concurs, which concurrence shall not be unreasonably withheld.

DATED. _____

GATX TERMINALS CORPORATION

By _____

Its _____

Section 7

The Owner of the Property reserves the right under WAC 173-340-440 to record an instrument that provides that this Restrictive Covenant shall no longer limit use of the Property or be of any further force or effect. However, such an instrument may be recorded only if Ecology, after public notice and opportunity for comment, concurs, which concurrence shall not be unreasonably withheld.

DATED: ______________

GATX TERMINALS CORPORATION

By ______________

Name: ______________

Title: ______________

STATE OF Illinois)
) ss.
COUNTY OF Cook)

On this 14th day of June, 2000, before me, the undersigned, a Notary Public in and for the State of Illinois, duly commissioned and sworn, personally appeared Harold D. King, to me known to be the person who signed as Vice President - Controller of GATX TERMINALS CORPORATION, the corporation that executed the within and foregoing instrument, and acknowledged said instrument to be the free and voluntary act and deed of said corporation for the uses and purposes therein mentioned, and on oath stated that he was duly elected, qualified and acting as said officer of the corporation, that he was authorized to execute said instrument and that the seal affixed, if any, is the corporate seal of said corporation.

IN WITNESS WHEREOF I have hereunto set my hand and official seal the day and year first above written.

Cari A. Grochowski
(Signature of Notary)

"OFFICIAL SEAL"
CARI A. GROCHOWSKI
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 4-9-2001

(Print or stamp name of Notary)

NOTARY PUBLIC in and for the State of Illinois, residing at 479 E. Sundale, Palatine, IL
My appointment expires: 4-9-2001.

APPENDIX B

United States Environmental Protection Agency
and Washington Department of Ecology

Memorandum of Agreement

APPENDIX B

United States Environmental Protection Agency

and

Washington State Department of Ecology

Memorandum of Agreement

7W80

ARCO HARBOR ISLAND

SIT 8.5.3

SUPERFUND/TOXICS CLEANUP PROGRAM
MEMORANDUM OF AGREEMENT
FOR THE HARBOR ISLAND SUPERFUND SITE

Signed 2/5/91

Purpose

The purpose of this site specific memorandum of agreement (MOA) between Ecology and EPA is to clarify the roles and responsibilities of each agency with regard to site management and enforcement activities at the Harbor Island superfund site. This agreement applies only to EPA and Ecology activities at the Harbor Island site and does not apply to or influence the work of either party at other Superfund sites. This agreement is an addendum to the Superfund Memorandum of Agreement (SMOA) dated October 26, 1989. It is expected that this agreement will be in effect only until both the groundwater and soil/sediments Records of Decision (RODs), arising from EPA's investigations, are completed. At that time, it is anticipated that another MOA or perhaps a site specific cooperative agreement will be required.

Basic Enforcement Responsibilities

Since all of Harbor Island is one superfund site, EPA will retain the lead for most enforcement activities at the site. Ecology will be the lead agency for cleanup of three tank farms, (Shell Oil, Texaco, and Arco) on the site. Ecology agrees to pursue an order with each of these three facilities on the island and to require that investigations of groundwater, surface water (including storm water) and soils at each of these facilities be consistent, at a minimum, with the island wide work plan prepared by Roy F. Weston, Inc. for EPA.

Ecology agrees to use its own enforcement authorities through the Model Toxics Control Act (MTCA) to assure that the three tank farm sites are cleaned up. It is Ecology's understanding that EPA will divide the remainder of the site into two operable units, one to address groundwater and one to address soils and sediments. Each operable unit will require a Record of Decision and state concurrence. Ecology cleanups will be endeavor to be as consistent as possible with the RODs with which Ecology has concurred. However, as stated in the SMOA, Ecology conducted cleanups are done without EPA involvement or oversight and as such will be done using state cleanup standards and procedures.

EPA will complete the RI/FS for the remainder of the island (soils and groundwater) as well as sediment and air investigations for the entire island, and will pursue required cleanup activities using CERCLA authorities. EPA will take the lead for all sites found to be contaminated with both petroleum and other contaminants, which at this time include Todd Shipyard/Mobile Oil property and the Shell terminal's Yard A. Following the issuance of the RODs, Ecology may accept responsibility for cleanup of additional sites which EPA, through its investigation, finds to be contaminated solely from petroleum products. Ecology and EPA shall meet and concur before any transfer of site

responsibility occurs. Ecology will handle transferred sites as priorities and resources allow.

Basic Site Management Responsibilities

The site will remain an EPA lead site. Ecology will continue to complete the EPA oversight tasks outlined in the Management Assistance Cooperative Agreement. However, due to the high degree of interaction between EPA and the Urban Bay Action Team at Ecology's Northwest Regional Office (NWRO), Ecology will dedicate one staff member at NWRO assume these tasks, and the headquarters office will no longer be involved in oversight of EPA work. The NWRO staff person will serve as EPA's primary contact at Ecology for all Harbor Island issues, prepare MTCA orders for investigation and cleanup of the Shell, Texaco, and Arco properties and provide coordination between Ecology and EPA. NWRO staff will continue to pursue source control through the efforts of the Urban Bay Action Team.

EPA will provide to the NWRO staff contact three copies of documents to be reviewed. Review times by Ecology shall be consistent with those specified in the SMOA unless otherwise agreed upon by both EPA and Ecology. Ecology will assure that MTCA orders are consistent with the final approved work plan for the Phase II investigation without formal EPA oversight, as outlined in the SMOA. Ecology will keep EPA informed of all significant events and accomplishments at the state lead sites. Two copies of any reports or data submitted to Ecology by potential liable persons (PLPs) or their contractors shall be provided to EPA to assist in the island wide investigation.

Site Specific Responsibilities

1. Port of Seattle-Terminal 18. EPA will take the lead on this site which will include Shell Yard A and Terminal 18D. If investigation shows that the contamination of the property stems solely form petroleum products, Ecology may take responsibility for assuring cleanup on that portion of the Port of Seattle property.

2. Todd Shipyard-Mobil. EPA will take the lead on the entire Todd Shipyard property including the old Mobil tank farm. If the investigation shows that the contamination on the old Mobil property stems solely from petroleum products, Ecology may take responsibility for assuring cleanup on that portion of the Todd property.

3. Tank Farms-Shell Oil, Arco, Texaco. With the exception of Shell Yard A, Ecology will take the lead on these three tank farms and will follow through to final cleanup using MTCA authorities.

Schedules

EPA has decided to divide the site into two separate operable units and therefore will prepare two separate RODs for the site. The first ROD will address soils and sediments for the island and is scheduled to be

completed by March, 1992. The second ROD will address groundwater and is proposed for completion in March, 1992. Ecology intends to develop a schedule for its orders to the tank farms which will allow EPA and the tank farms to conduct concurrent groundwater sampling events. Ecology and EPA agree that soils data from the tank farms will not be available in time to be used in preparation of the soils/sediment ROD, but that Ecology's Cleanup Action Plans will address any necessary remediation indicated by that data.

Data Exchange

Ecology and EPA agree to exchange data in a manner to facilitate decision making by both parties. EPA shall have access to all data collected by Ecology and the PLPs including that done for source control. Ecology shall have access to all data collected by EPA, its contractors and the PRPs.

Dispute Resolution

In the event of disputes between EPA and Ecology concerning site activities, the agency site managers will attempt to promptly resolve such disputes. If disputes cannot be resolved at this level, the problem will be referred to the supervisors of these persons for futher consultation. This supervisory referral and resolution process will continue, to the level necessary to resolve the conflict.

In the event that schedules for activities at the tank farms and the Weston investigation conflict, EPA and Ecology will meet to discuss options. Preference shall be given to those activities which are actively reducing a known threat to human health or the environment rather than to investigatory activities. Every effort shall be made to accomodate both activities. For example, product recovery operations at a tank farm have the potential to affect groundwater investigation results. EPA and Ecology shall give priority to the continuing operation of the product recovery system, yet may schedule an inactive period to allow the investigation to proceed. Such decisions will be made on a case by case basis by the agency project managers.

For the Department of Ecology

Carol L. Fleskes 11/25/91
Carol L. Fleskes Date
Program Manager, Toxics
Cleanup Program

For the Environmental Protection Agency

Philip G. Millam 2-5-91
Philip G. Millam Date
Chief, Superfund Branch

~N90

1994 MEMORANDUM OF AGREEMENT FOR THE HARBOR ISLAND SUPERFUND SITE

Purpose

The purpose of this site specific Memorandum of Agreement (MOA) between the Department of Ecology (Ecology) and the Environmental Protection Agency (EPA) is to clarify the roles and responsibilities of each agency with regard to site management and enforcement activities at the Harbor Island Superfund Site in Seattle, WA. This MOA supersedes the previous version dated February 5, 1991. Unless specified otherwise, the definitions and provisions set forth in the Superfund/Hazardous Waste Cleanup Memorandum of Agreement (SMOA) of 1989 between EPA and Ecology, will apply to this MOA.

Basic Enforcement Responsibilities

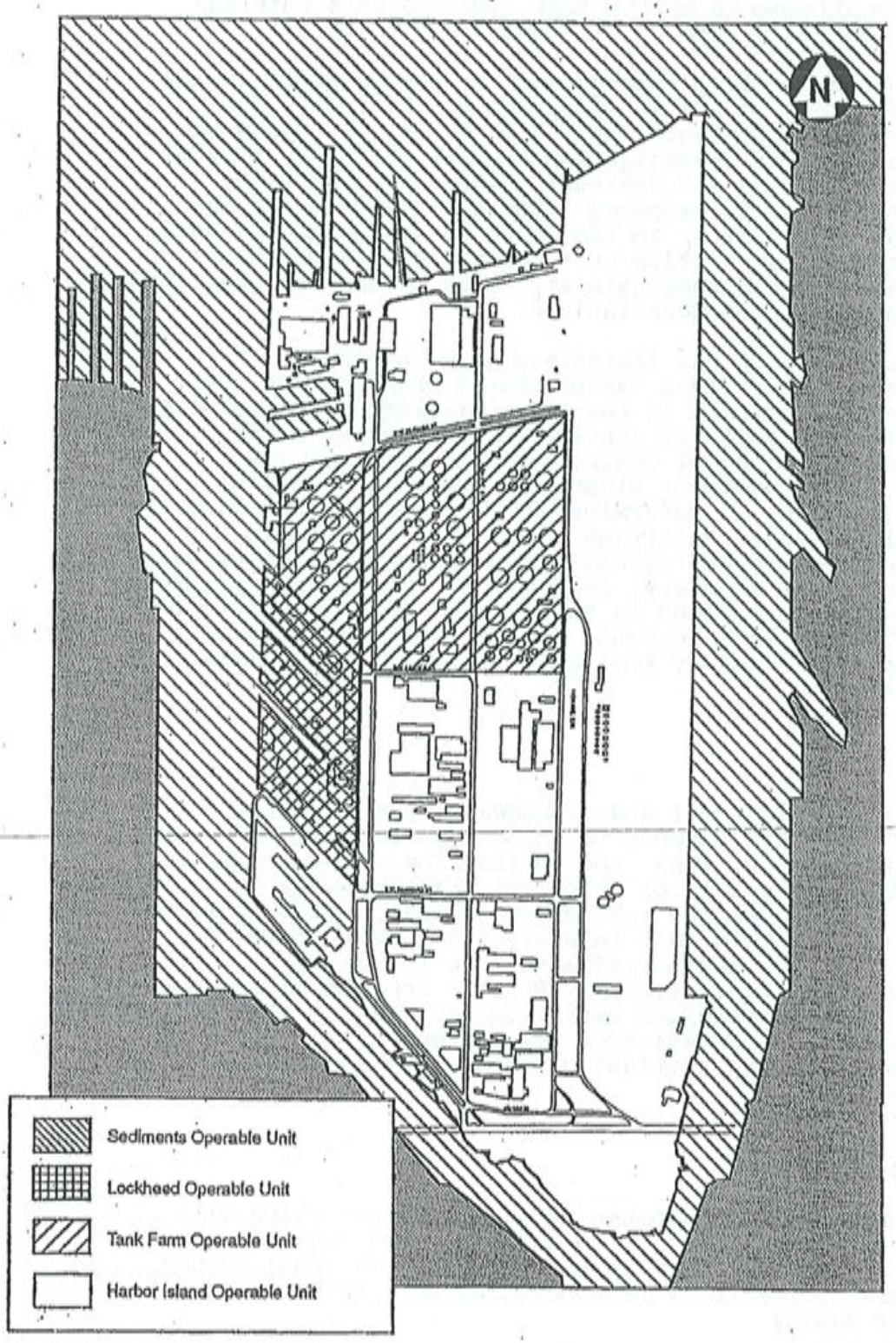
The Harbor Island Superfund Site has been broken up into four operable units (Fig. 1), which are: the petroleum tank farms, island-wide soil and groundwater, Lockheed Shipyard #1, and the marine sediments around the island. Ecology will be the lead agency for the petroleum tank farms because the primary contaminant at these tank farms is petroleum, which is identified as a hazardous substance under the Model Toxics Control Act (MTCA) but is not a hazardous substance under CERCLA. EPA will be the lead agency for the remaining three operable units.

Ecology will issue a Cleanup Action Plan (CAP) for each tank farm which will identify cleanup goals and select a remedial action for each tank farm. Ecology will use its authority under MTCA to have the selected remedies implemented by the Potentially Liable Persons (PLPs) associated with this unit. EPA will issue a Record of Decision (ROD) for each of its three operable units which will identify cleanup goals and select remedial actions for these operable units. EPA will use its authority under CERCLA to have the selected remedies implemented by the Potentially Responsible Parties (PRPs) associated with each of these units.

Basic Site Management Responsibilities

The tank farm operable unit is defined as property owned or leased by Shell Oil (including Yard "A"), Texaco, and ARCO. This unit also includes petroleum contamination which has migrated from these properties in the form of contaminated groundwater or petroleum product floating on groundwater. Ecology will manage the cleanup of the tank farm operable unit with no oversight by EPA. However, Ecology will keep EPA informed of all significant

Figure 1
Harbor Island Operable Units



events and accomplishments on the tank farm operable unit and will also provide two copies of all final reports to EPA.

For the EPA operable units, Ecology will provide support agency management assistance to EPA as specified in the SMOA. The most important remaining assistance tasks will be to: 1) review and comment on the Remedial Investigation/Feasibility Study (RI/FS) Reports for the Lockheed and Sediment units, and 2) review, comment and concur on the Proposed Plans and the RODs for the Lockheed and Sediment units. In addition, as stated in the SMOA, EPA and Ecology will meet prior to the start of all consent decree negotiations with responsible parties to discuss goals and bottom line positions for negotiations.

EPA's Sediment RI Report has identified large areas of contaminated sediments around Harbor Island which exceed the cleanup levels as specified in the Sediment Management Standards. EPA will use its knowledge of contaminant sources on Harbor Island, its understanding of contaminant transport in the sediments, Ecology's sediment clustering analysis, and best professional judgement to determine which contaminated sediments will be remediated under Superfund authority. Where there are contaminated sediment areas exceeding the cleanup levels outside of the Superfund site boundary, Ecology will be the lead agency for enforcing cleanup actions in these areas. EPA will coordinate sediment remedial actions selected for the Superfund site with remedial actions selected by Ecology in adjacent contaminated sediment areas.

Schedule

The ROD for island-wide soil and groundwater was signed on September 30, 1993. EPA intends to issue "special notice" letters to the PRPs in November, 1993, and to finalize a Consent Decree with these PRPs by the fall of 1994. EPA plans to complete a ROD for the Lockheed Shipyard in the spring of 1994, and to complete a Consent Decree for this unit in early 1995. EPA intends to complete a ROD for the marine sediment unit in the fall of 1994 and a Consent Decree in early 1995. Ecology intends to complete CAPs for each of the petroleum tank farms by January 1995. In general, remedial actions selected for sources of contamination will be initiated before initiating remedial actions selected for marine sediments.

Data Exchange

Ecology and EPA agree to exchange data in a manner which will facilitate decision making by both parties. Upon request, each agency shall have access to data collected by the other agency, its contractors, or by the PRPs conducting work under agreement with the other agency.

Dispute Resolution

In the event of dispute between EPA and Ecology concerning responsibilities for the Harbor Island site, the site managers for each agency will attempt to promptly resolve such disputes. If disputes cannot be resolved at this level, the problem will be referred to the supervisors of these persons for resolution. This supervisory referral and resolution process will continue, to the management level necessary to resolve the conflict.

In the event that schedules for remedial actions at the site conflict, EPA and Ecology will evaluate options to eliminate this conflict. Preference will be given to those remedial actions which will eliminate the most significant human health or environmental risks at the site in the shortest timeframe. Such decisions will be made on a case-by-case basis by both agency's site managers and program managers.

Carol L. Fleskes 2/10/94

Carol L. Fleskes Date
Program Manager
Toxics Cleanup Program
Department of Ecology

Carol Rushin Date
Chief
Superfund Remedial Branch
Environmental Protection Agency

n50

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

March 27, 1995

RECEIVED
MAR 2 9 1995
GERAGHTY & MILLER, INC.

Larry Roberts
Geraghty & Miller, Inc.
8330 154th Avenue N.E.
Redmond, WA 98052-3864

Re: Harbor Island Operable Unit Boundaries

Dear Mr. Roberts:

The Record of Decision for the Soil and Groundwater operable unit of the Harbor Island site did not identify the precise boundary between the Soil and Groundwater unit and the adjacent Petroleum Tank Farm unit along Southwest Lander Street. After discussing this issue with Ecology's site manager, Nnamdi Madakor, we decided to define the boundary to be the middle of Southwest Lander Street. If you have any further questions on this issue, please contact me at (206) 553-7721.

Sincerely,

Keith A. Rose
Remedial Project Manager

cc: Nnamdi Madakor, Ecology

APPENDIX C

Kinder Morgan Liquids Terminal Harbor Island Site

Site Photograph Log for November 19, 2014

And

EPA Five-Year Review Interview Record

APPENDIX C

Kinder Morgan Liquids Terminals

Site Photograph Log for November 19, 2014

Five-Year Review Interview Record			
Site:	Kinder Morgan Liquids Terminal Harbor Island	**EPA ID No:**	**WAD980722839**

Interview Type: Site Visit
Location of Visit: Kinder Morgan Liquids Terminal Harbor Island
Date: November 19, 2014
Time: 2:00 pm

Interviewers

Name	Title	Organization
Maura O'Brien	Professional Geologist/Hydrogeologist and Site Manager	Toxics Cleanup Program, NWRO, Department of Ecology

Interviewees

Name	Organization	Title	Telephone	Email
Robert Truedinger	Kinder Morgan Inc.	Remediation Project Manager	(510) 412-8813	robert_truedinger@kindermorgan.com

Summary of Conversation

1) What is your overall impression of the project?

Significant progress continues to be made on the project and good collaboration occurs between Kinder Morgan and DOE. Kinder Morgan remains committed to the project goals and working with DOE and stakeholders in a productive fashion.

2) Is the remedy functioning as expected? How well is the remedy performing?

The remedy implemented for B and D yards was anaerobic biological oxidation (ABOX) of total petroleum hydrocarbon (TPH) impacts in groundwater through the land application of two reagents, Epsom salt and gypsum. These reagents deliver sulfate to the groundwater system through precipitation (supplemented with irrigation) and infiltration. Sulfate concentrations have been sustained above the threshold of 500 mg/L sulfate for 13 months post- implementation (most recent sampling event). TPH-G and BTEX concentrations in the land application area are all less than baseline collected pre-implementation and continue to exhibit decreasing trends.

3) What does the monitoring data show?

Groundwater analytical results collected from select wells across the site indicate decreasing or stable trends of site constituents of concern, particularly total petroleum hydrocarbons in the gasoline range and benzene. Conditions continue to improve and remain protective of human health and the environment.

Are there any trends that show contaminant levels are decreasing?

Yes

4) Is there a continuous O&M presence? If so, please describe staff and activities. If there is not a continuous on-site presence, describe staff and frequency of site inspections and activities.

The Kinder Morgan Harbor Island Terminal is an active operating terminal facility and the selected remedy is passive (sulfate land application). There are monthly visits by a Kinder Morgan consultant to inspect the functionality and integrity of the existing sulfate irrigation system. This system is entirely automated and only requires maintenance when winterizing or de-winterizing.

5) Have there been any significant changes in the O&M requirements, maintenance schedules, or sampling routines in the last five years? If so, do they affect protectiveness of the remedy? Please describe changes and impacts.

On August 13, 2014, the Washington State Department of Ecology approved a groundwater monitoring frequency reduction request. The decision to reduce groundwater monitoring at the site from a quarterly to a semiannual frequency was based on the stability of groundwater conditions at the site, the lack of off-site migration of groundwater constituents of concern, and the fact that no product releases had occurred at the site since 2010.There have been no significant changes to O&M requirements or maintenance schedules.

6) What are the annual operating costs for your organization's involvement with the site?
$140,000/year.

7) Have there been unexpected O&M difficulties or costs at the site in the last five years? If so, please give details.

There have not been any unexpected O&M difficulties within the last five years. Submeters were installed after the initial irrigation system construction in order to measure and record the volume of water used for remedial purposes. These volumes are then deducted from the site's sewer discharge bill.

8) Have there been opportunities to optimize O&M or sampling efforts? Please describe changes and resultant or desired cost savings or improved efficiency.

Groundwater sampling efforts were optimized by the approved sampling reduction discussed previously. The reduction in sampling frequency from a quarterly to a semiannual basis will results in savings of approximately 40% of the annual groundwater sampling expenditure.

9) Are you aware of any changes in Federal/State/County/Local laws and regulations that may impact the protectiveness of the remedy?

No.

10) Do you have any comments, suggestions, or recommendations regarding the project?
No.

Additional Site-Specific Questions

Kinder Morgan Liquids Terminals LLC, former GATX Terminals Harbor Island Site
Appendix C. Photo Log on November 19, 2014

Photo 1. KMLT illustrating a petroleum fuels loading rack.

Photo 2. Above ground petroleum Storage Tanks (ASTs) showing site conditions and maintenance.

Photo 3. KMLT Above ground petroleum Storage Tank No. 33 at B Yard with containment wall and piping on left with two Arcadis consultants conducting the site inspection.

Photo 4. KMLT Above ground petroleum Storage Tank No 35 at E Yard with supply piping and valves.

Photo 5. Overhead supply piping between KMLT yards showing impermeable (paved) and permeable (gravel) surfaces and current site conditions.

Photo 6. KMLT Above ground petroleum Storage Tank and supply piping with containment wall to right.