

**First Quarter 2013 Groundwater  
Monitoring Report**

**Kinder Morgan Harbor Island Terminal  
KMLT File No. 29.79.02 (81171)  
2720 13<sup>th</sup> Avenue Southwest  
Seattle, Washington 98134**

**April 2013**



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Subject:  
First Quarter 2013 Groundwater Monitoring Report  
Kinder Morgan Harbor Island Terminal  
KMLT File No. 29.79.02 (81171)  
2720 13<sup>th</sup> Avenue Southwest  
Seattle, Washington 98134

Dear Ms. O'Brien:

On behalf of Kinder Morgan Liquids Terminals, LLC (KMLT), ARCADIS U.S., Inc. (ARCADIS), is pleased to submit this *First Quarter 2013 Groundwater Monitoring Report* for the above referenced facility (the site).


The next groundwater monitoring event at the site is scheduled for second quarter 2013. Should you have any questions regarding this report, please contact Chris Angier of ARCADIS at (503) 220-8201 or Robert Truedinger of KMLT at (510) 412-8813.

Sincerely,

ARCADIS U.S., Inc.



Chris Angier  
Project Manager



Rebecca Andresen, P.G.  
Associate Vice President

Enc.:  
First Quarter 2013 Groundwater Monitoring Report

CC:  
Mr. Dave Rowland, KMLT, Seattle, WA (CD Copy)  
Mr. Robert Truedinger, c/o Stephanie Randall, KMLT, Orange, CA (CD Copy)  
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ENVIRONMENT

Date  
April 22, 2013

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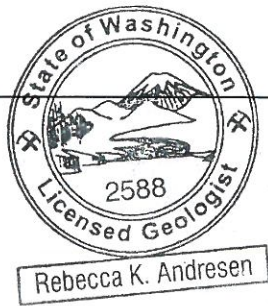
Our ref:  
WA000804.2013



Kyle Haslam  
Environmental Scientist

for Chris Angier  
Project Manager

Rebecca Andresen, P.G.  
Associate Vice President



**First Quarter 2013 Groundwater  
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Terminal

KMLT File No. 29.79.02 (81171)  
2720 13<sup>th</sup> Avenue Southwest  
Seattle, Washington 98134

Prepared for:  
Kinder Morgan Liquids Terminals, LLC

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Our Ref.:  
WA000804.2013

Date:  
April 22, 2013

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Attachment A	<i>Proposed Reduced Monitoring - Site-Wide Groundwater Compliance Monitoring Plan, Technical Revision Request, and Ecology Approval Letter</i>
Attachment B	Groundwater Monitoring Field Data Sheets
Attachment C	Laboratory Reports and Chain-of-Custody Documentation

## Executive Summary

ARCADIS U.S., Inc. has prepared this summary report to present the findings of the First Quarter 2013 groundwater monitoring and sampling event at the Kinder Morgan Liquids Terminals (KMLT), LLC Harbor Island Terminal located in Seattle, Washington. Groundwater monitoring and sampling were performed in accordance with the KMLT *Proposed Reduced Monitoring-Site-Wide Groundwater Compliance Monitoring Plan* (Reduced Monitoring Plan) on February 27 and 28, 2013. The Reduced Monitoring Plan is in accordance with the Washington State Department of Ecology-approved Site-Wide Plan, dated June 21, 2007 and the September 4, 2008 Technical Revision Request, presented as **Attachment A**. A Site Location Map and Site Map are included as **Figures 1** and **2**.

Groundwater monitoring for this event included gauging 43 wells and collecting samples from 15 wells. Measurable separate phase hydrocarbons (SPH) were not observed in any well gauged during this sampling event. SPH has not been observed in any of the gauged monitoring wells for six consecutive quarters.

Concentrations of Total Petroleum Hydrocarbons (TPH) in the Gasoline Range Organics (GRO) ranged from non-detectable at the method reporting limit (MRL) to 14 milligrams per liter (mg/L) in off-site monitoring well TMW-B1. Concentrations of benzene ranged from non-detectable at the MRL to 0.290 milligrams per liter (mg/L) in off-site monitoring well MW-24. Based on comparison of the recent and historical laboratory results for petroleum hydrocarbons in groundwater, concentrations of hydrocarbon constituents are consistent with results reported in previous groundwater monitoring and sampling events.

## 1. Site Description

The site is currently a 14-acre bulk petroleum storage facility located east of 13<sup>th</sup> Avenue on Harbor Island in Seattle, King County, Washington. The site has operated as a bulk petroleum storage terminal since 1944. The site vicinity is primarily occupied by heavy industry. A Site Location Map and Site Map are included as **Figure 1** and **Figure 2**.

The site is situated at an elevation of approximately 6 to 11 feet above mean sea level (amsl) and the topography of the site vicinity is flat.

The site consists of five yards (A, B, C, D, and E). Aboveground features include aboveground storage tanks (AST) containing refined petroleum products, located in the B and C yards. A Yard, located at the southern end of the property, consists of the terminal office, a truck loading rack, and other support structures. B Yard, located north of A Yard and south of D Yard, is the site of 15 ASTs and associated piping and is surrounded by a 15-foot high concrete wall. D Yard, located north of B Yard, is comprised of a driveway and a maintenance building and is the primary corridor for on-site utilities. C Yard, located north of D Yard and south of E Yard, contains six ASTs and associated piping and is surrounded by a 15-foot high concrete wall. E Yard, located at the north end of the property, is leased to other parties and consists of an office building and vehicle storage facilities (Antea, 2011).

## 2. Scope of Work

Groundwater monitoring and sampling activities were performed in accordance with Delta Consultant's letter dated March 22, 2007, entitled *Proposed Reduced Monitoring-Site-Wide Groundwater Compliance Monitoring Plan* (Reduced Monitoring Plan). The letter detailed proposed revisions to the Compliance Monitoring Plan included in the Corrective Action Plan, and included a reduction in the number of wells to be gauged, a reduction in the frequency of sampling in select wells, and a reduction in analytes in select wells. On June 13, 2007, Mr. Roger Nye of the Washington Department of Ecology (Ecology) verbally authorized Delta to proceed with the revised monitoring program proposed in the letter. A letter was issued by Mr. Nye on August 7, 2007 to formally authorize the Reduced Monitoring Plan. The above referenced documents are presented as **Attachment A**.

The scope of work for the First Quarter 2013 sampling event included:

- Monitor depth to water in 43 groundwater monitoring wells,
- Remove and replace SPH absorbent socks in 9 wells,
- Purge 15 monitoring wells using low-flow sampling methods,
- Collect groundwater samples from 15 monitoring wells,
- Submit groundwater samples to Alpha Analytical, Inc. (Alpha) of Sparks, Nevada for laboratory analyses, and
- Prepare this quarterly groundwater monitoring report.

## 2.1 Water Level Measurements

Water levels were measured on February 27 and 28, 2013 using an electronic oil-water interface probe. No measurable SPH was observed in any of the wells monitored this event.

Groundwater elevations were calculated using depth-to-water measurements and wellhead survey elevations obtained in July 2003. A summary of the groundwater elevation data is presented in **Table 1**. A groundwater elevation map is presented on **Figure 3**.

## 2.2 Groundwater Sampling and Analysis

Groundwater samples were collected from one well on February 27, 2013 and 14 wells on February 28, 2013 in accordance with the Reduced Monitoring Plan.

Groundwater monitoring wells were purged using a low-flow peristaltic pump and dedicated tubing. Groundwater quality parameters were collected for temperature, specific conductivity, dissolved oxygen, oxidation reduction potential (ORP), and pH using a Yellow Springs Instruments (YSI) multi parameter meter and flow cell. Monitoring wells were sampled after depth to water, pH, specific conductivity, temperature, ORP, and dissolved oxygen had stabilized. Groundwater monitoring field data sheets are included as **Attachment B**.

Groundwater samples were collected in laboratory provided bottles and placed in coolers with ice. Groundwater samples were submitted to Alpha under standard chain-of-custody protocol. All groundwater samples were analyzed for the following constituents of concern (COCs):

- Total Petroleum Hydrocarbons (TPH) gasoline range organics (GRO) according to Northwest Method NWTPH-Gx and
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX collectively) according to Environmental Protection Agency (EPA) Method 8260B.

Groundwater samples from monitoring well MW-21 were also analyzed for:

- TPH diesel range organics (DRO) and heavy-oil range organics (HO) according to Northwest Method NWTPH-Dx.

A blind duplicate sample was collected from MW-24. Groundwater analytical results are presented in **Table 2**. Laboratory analytical reports and chain-of-custody documentation are included as **Attachment C**.

### 2.3 Passive SPH Recovery

During previous groundwater monitoring events, measurable SPH or sheens were observed in nine wells (12, A-4, A-6, A-16, MW-7, MW-9, MW-21, MW-23, and MW-24). Based on these observations, passive SPH recovery is being performed in these wells. No measurable SPH was observed during this event, making this the fifth consecutive quarter without observed SPH. The absorbent socks were removed from each of these wells and replaced with new absorbent socks in order to absorb potential SPH. Currently, socks are replaced on a quarterly basis.

## 3. Summary of Findings

### 3.1 Groundwater Monitoring

During the First Quarter 2013 monitoring event, groundwater conditions at the site remained consistent with previous monitoring events. Groundwater elevations during this sampling event ranged between 5.90 feet amsl (A-8) and 9.21 feet amsl (MW-19). A Groundwater Elevation Map is presented as **Figure 3**. Current and historical groundwater gauging data are presented in **Table 1**.



### 3.2 Data Validation

All groundwater samples were processed within their specified hold times. Alpha reported the method and laboratory control samples were within acceptable limits. A duplicate sample was collected from MW-24 and analyzed for the same constituents. Analytical results for the duplicate sample were within acceptable limits for all analytes. The detection limits were satisfactory and the surrogate recovery results were acceptable.

### 3.3 Groundwater Analytical Results

During the First Quarter 2013 monitoring event, groundwater samples collected contained the following constituents of concern:

- GRO concentrations ranging from less than the MRL to 14 milligrams per liter mg/L in off-site monitoring well TMW-B1;
- A DRO concentration of 0.90 mg/L in monitoring well MW-21;
- Benzene concentrations ranging from less than the MRL to 0.290 mg/L in off-site monitoring well MW-24;
- Toluene concentrations ranging from less than the MRL to 0.130 mg/L in monitoring well MW-19;
- Ethylbenzene concentrations ranging from less than the MRL to 0.500 mg/L in off-site monitoring well TMW-B1; and
- Total xylenes concentrations ranging from less than the MRL to 0.870 mg/L in off-site monitoring well TMW-B1.

Analytical results for groundwater samples collected from monitoring wells A-5, A-21, A-23R, MW-6, MW-9, MW-14, MW-18, and MW-21 did not contain COCs at concentrations greater than Ecology MTCA Method C CLs.

A Site Plan with Analytical Results is presented as **Figure 4**. Groundwater analytical results are presented in **Table 2**. Historical groundwater monitoring and natural attenuation results are presented in **Table 3**. Laboratory analytical reports and chain-of-custody documentation are included as **Attachment C**.

Based on a comparison of historical laboratory results and current analytical results for constituents of concern, concentrations remain consistent with results reported previously.

#### **4. Summary**

The concentrations of COCs encountered during this monitoring event are consistent with concentrations encountered during previous groundwater monitoring events. No measurable SPH was observed during the First Quarter 2013 sampling event.

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	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*	Product thickness <0.01
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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	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	

**Table 1**

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Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
A-4	08/25/12	13.22	7.17	--	6.05	
A-4	11/07/12	13.22	6.77	--	6.45	
A-4	02/28/13	13.22	6.69	--	6.53	
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	
A-5	02/27/13	14.13	7.59	--	6.54	
A-6	02/11/02	--	6.40	0.13	--	Casing Broken
A-6	05/20/02	--	8.13	0.14	--	Casing Broken
A-6	08/27/02	--	7.80	0.45	--	Casing Broken

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
A-6	11/04/02	--	7.33	0.01	--	Product recovery pump in well
A-6	02/18/03	--	8.50	Sheen	--	Product recovery pump in well
A-6	06/09/03	--	7.45	0.01	--	Repaired broken top of casing
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	
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-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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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	



**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	
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-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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
A-14R	02/18/03	10.17	7.31	--	2.86	
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-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*	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-17	02/11/02	9.51	6.09	--	3.42	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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-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*	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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-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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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-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	



**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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-22	09/21/01	10.69	--	--	--	Destroyed
A-22			<b>Destroyed</b>			
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*	Product thickness <0.01
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	--	--	--	Sock in well
A-22R	12/04/08	14.11	--	--	--	Sock in well
A-22R	03/04/09	14.11	--	--	--	Sock in well
A-22R	06/01/09	14.11	--	--	--	Sock in well
A-22R	09/21/09	14.11	--	--	--	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	
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-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	--	--	--	--	Could not access
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	--	--	--	Inaccessible
A-23R	12/04/08	15.57	9.34	--	6.23	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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	--	--	--	Not Measured
A-23R	11/07/12	15.57	8.52	--	7.05	
A-23R	02/27/13	15.57	8.45	--	7.12	
A-24	10/06/00	--	--	--	--	Destroyed during construction activities
A-24	<b>Destroyed during construction activities</b>					
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	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-26	03/27/01	--	--	--	--	Destroyed during construction of utility
A-26	<b>Destroyed during construction of utility trench</b>					
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	--	--	--	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	
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	11/07/12	14.19	7.42	--	6.77	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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	11/07/12	17.22	10.28	--	6.94	
A-28	06/14/01	--	--	--	--	Destroyed during construction activities
A-28	<b>Destroyed during construction activities</b>					
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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-29	03/27/01	--	--	--	--	Destroyed during construction of utility
A-29	<b>Destroyed during construction activities of utility trench</b>					
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	--	--	--	Well 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	
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	<b>Abandoned</b>					
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	--	--	--	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	--	--	--	Casing Broken
4	09/11/06	11.01	--	--	--	Casing Broken
4	12/11/06	11.01	--	--	--	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	<b>Abandoned</b>					

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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



**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
8	06/11/03	--	--	--	--	Abandoned
8	<b>Abandoned</b>					
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	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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 Located
12	11/18/03	9.79	--	--	--	Not accessible - surface water covering
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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	--	--	--	--	Recently destroyed
13	06/11/03	--	--	--	--	Abandoned
13	<b>Abandoned</b>					
14	06/11/03	--	--	--	--	Abandoned
14	<b>Abandoned</b>					
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	<b>Abandoned</b>					
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	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	<b>Abandoned</b>					
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	<b>Abandoned</b>					
26	02/11/02	9.43	3.70	--	5.73	
26	05/20/02	9.43	--	--	--	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	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	--	--	--	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	
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-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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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-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	



**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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-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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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-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	--	--	--	Construction activities obstructing well
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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-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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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-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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
MW-7	08/25/12	10.62	3.35	--	7.27	
MW-7	11/07/12	10.62	2.23	--	8.39	
MW-7	02/27/13	10.62	2.33	--	8.29	
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	--	--	--	NM - 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	
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-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*	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	3.38	--	6.37	
MW-9	11/07/12	9.75	2.49	--	7.26	
MW-9	02/27/13	9.75	2.71	--	7.04	
MW-10D	03/27/01	--	--	--	--	Destroyed during construction activities
MW-10D	09/24/07	9.75	3.88	--	5.87	
MW-10D	<b>Destroyed during construction activities in 2000</b>					
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-13	02/11/02	--	--	--	--	Destroyed during construction activities
MW-13	<b>Destroyed during construction activities</b>					
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	
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	--	--	--	--	Well abandoned on 5/25/2012
MW-13R	<b>Abandoned on 5/25/2012</b>					



**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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-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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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	--	--	--	Not Measured
MW-18	11/07/12	15.49	7.21	--	8.28	
MW-18	02/27/13	15.49	6.43	--	9.06	
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	--	--	--	Inaccessible, under pipe stockpile
MW-19	12/12/05	11.39	--	--	--	Inaccessible, under pipe stockpile
MW-19	03/13/06	11.39	--	--	--	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	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	--	--	--	Overflowed when well cap removed
MW-20	06/09/03	7.37	--	--	--	Overflowed when well cap removed
MW-20	09/15/03	11.72	--	--	--	Overflowed when well cap removed
MW-20	11/18/03	11.72	--	--	--	Overflowed when well cap removed
MW-20	02/24/04	11.72	--	--	--	Overflowed when well cap removed
MW-20	05/10/04	11.72	--	--	--	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	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	
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-23	11/18/03	14.15	7.66	Sheen	6.49	
MW-23	02/24/04	14.15	7.18	Sheen	6.97	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
MW-23	05/10/04	14.15	7.89	<0.01	6.26*	Product thickness <0.01
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	
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-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	



**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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-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	
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	--	--	--	Dry
E-1	11/04/02	--	--	--	--	Dry/Damaged Well
E-1	06/11/03	--	--	--	--	Abandoned
E-1	05/30/12	13.05	7.12	--	5.93	
E-1			<b>Abandoned</b>			

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
SF-01	12/18/00	--	--	--	--	Abandoned
SF-01	<b>Abandoned</b>					
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	<b>Destroyed during construction activities</b>					
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	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	
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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	7.89	--	6.00	
SH-05R	11/07/12	13.89	6.79	--	7.10	
SH-05R	02/27/13	13.89	6.77	--	7.12	
MW-07	01/13/97	7.66	--	--	--	Destroyed during construction activities
MW-07						<b>Destroyed during construction activities</b>
MW-07R	02/11/02	9.93	4.95	--	4.98	
MW-07R	05/20/02	9.93	7.29	--	2.64	
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	--	--	--	--	Inaccessible; covered with asphalt
MW-07R	06/09/03	--	--	--	--	Inaccessible; covered with asphalt
MW-07R	06/11/03	--	--	--	--	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	

**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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	

Notes:

ft = Feet

amsl = Above Mean Sea Level

BTOC = Below Top of casing; Depth to groundwater measured from TOC.

Not measured = Separate-phase hydrocarbon recovery unit in well.

Wells MW-10D and MW-11D are 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 SPH density

**Table 2**



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

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

Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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-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-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	--	--	
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	--	<0.005	
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	--	--	

**Table 2**



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
A-10	03/15/06	<0.25	<b>1.7</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.00050</b>	--	--	
A-10	06/08/06	<0.25	<b>0.66</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.00050</b>	--	--	
A-10	09/12/06	<0.25	<b>0.65</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.00050</b>	--	--	
A-10	12/12/06	<0.25	<b>0.98</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/19/07	<0.25	<b>1.2</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/03/09	<0.25	<b>2.4</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/09/10	<0.25	<b>0.56</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	05/25/11	<0.25	<b>0.80</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/01/12	<0.25	<b>0.62</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-12	12/12/06	<0.25	<b>0.98</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-12	06/03/08	<0.25	<b>0.63</b>	<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	<b>0.00061</b>	<b>0.0021</b>	<0.0005	<0.0005	<b>0.005</b>	<0.005	
A-14R	05/22/02	<0.25	<0.5	<0.5	<b>0.00053</b>	<b>0.0021</b>	<0.0005	<b>0.00054</b>	<b>0.02</b>	<0.005	
A-14R	08/28/02	<0.25	<0.5	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
A-14R	11/06/02	<0.25	<0.25	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
A-14R	02/20/03	<0.25	<0.25	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
A-14R	06/10/03	<0.25	<0.25	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.020</b>	<0.005	
A-14R	09/17/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.025</b>	<0.005	
A-14R	11/20/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.032</b>	<0.005	
A-14R	02/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.018</b>	<0.005	
A-14R	05/12/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-14R	08/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-14R	12/14/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0072</b>	<0.0050	
A-14R	03/10/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-14R	06/07/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<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	<0.0050	
A-14R	03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-14R	06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-14R	09/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-14R	12/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<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	--	
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-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	<b>2.5</b>	--	--	<0.0010	<0.0010	<b>0.037</b>	<b>0.013</b>	--	--	
A-21	02/14/02	<0.25	<0.25	<0.5	<0.0005	<b>0.0010</b>	<0.0005	<0.0005	<0.005	<0.005	
A-21	05/22/02	<0.25	<0.5	<0.5	<b>0.00061</b>	<b>0.0017</b>	<0.0005	<b>0.00057</b>	<0.005	<0.005	
A-21	08/29/02	<0.25	<b>0.76</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	



Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
A-21	11/06/02	<0.25	<b>0.37</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
A-21	02/19/03	<0.25	<0.5	<0.5	<b>0.0013</b>	<b>0.0018</b>	<0.0005	<b>0.00061</b>	<0.005	<0.005	
A-21	06/10/03	<b>0.25</b>	<0.25	<0.25	<b>0.0082</b>	<b>0.00058</b>	<0.0005	<0.0005	<b>0.062</b>	<0.0050	
A-21	09/16/03	<0.25	<0.25	<0.50	<b>0.0034</b>	<0.0005	<0.0005	<0.0005	<b>0.0085</b>	<0.005	
A-21	11/19/03	<b>0.47</b>	<0.25	<0.50	<b>0.061</b>	<b>0.0019</b>	<0.0005	<b>0.0029</b>	<b>0.0067</b>	<0.005	
A-21	02/25/04	<b>0.63</b>	<0.50	<0.50	<b>0.013</b>	<b>0.00066</b>	<b>0.045</b>	<b>0.0016</b>	<0.0050	<0.0050	
A-21	05/12/04	<b>0.50</b>	<0.25	<0.50	<b>0.0019</b>	<0.0005	<b>0.0042</b>	<b>0.00072</b>	<0.0050	<0.0050	
A-21	08/25/04	<b>0.26</b>	<0.25	<0.50	<b>0.0015</b>	<0.0005	<0.0005	<b>0.0015</b>	<0.0050	<0.0050	
A-21	12/14/04	<b>0.99</b>	<0.25	<0.50	<b>0.061</b>	<b>0.0025</b>	<b>0.022</b>	<b>0.0083</b>	<0.0050	<0.0050	
A-21	03/10/05	<b>1.5</b>	<b>0.26</b>	<0.50	<b>0.024</b>	<b>0.0021</b>	<b>0.0025</b>	<b>0.011</b>	<b>0.02</b>	<0.0050	
A-21	06/07/05	<b>1.2</b>	<b>0.35</b>	<0.50	<b>0.0076</b>	<b>0.00084</b>	<b>0.00077</b>	<b>0.0043</b>	<0.0050	<0.0050	
A-21	09/20/05	<b>1.3</b>	<0.25	<0.50	<b>0.011</b>	<b>0.0012</b>	<b>0.00066</b>	<b>0.0048</b>	<0.0050	<0.0050	
A-21	12/13/05	<b>1.6</b>	<0.25	<0.50	<b>0.017</b>	<b>0.00160</b>	<b>0.0015</b>	<b>0.0052</b>	<0.0050	<0.0050	
A-21	03/15/06	<b>0.97</b>	<0.25	<0.50	<b>0.0098</b>	<b>0.00097</b>	<b>0.0023</b>	<b>0.0033</b>	<0.0050	<0.0050	
A-21	06/08/06	<b>0.82</b>	<0.25	<0.50	<b>0.0023</b>	<b>0.00059</b>	<0.0005	<b>0.0019</b>	<0.0050	<0.0050	
A-21	09/12/06	<b>0.85</b>	<0.25	<0.50	<b>0.0019</b>	<0.0005	<0.0005	<b>0.0016</b>	<0.0050	<0.0050	
A-21	12/12/06	<b>0.85</b>	<0.25	<0.50	<b>0.0071</b>	<0.0005	<b>0.0021</b>	<b>0.0014</b>	<0.0050	<0.0050	
A-21	03/27/07	<b>0.28</b>	--	--	<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	--	--	<b>0.0040</b>	<0.0005	<0.0005	<0.0005	--	--	
A-21	12/11/07	<b>0.51</b>	--	--	<b>0.0062</b>	<0.0005	<b>0.026</b>	<b>0.0020</b>	--	--	
A-21	03/04/08	<0.25	--	--	<0.0005	<0.0005	<b>0.0051</b>	<0.0005	--	--	
A-21	06/04/08	<0.25	--	--	<0.0005	<0.0005	<b>0.00075</b>	<0.0005	<0.0050	--	
A-21	09/08/08	<b>0.41</b>	--	--	<0.0005	<b>0.00074</b>	<b>0.0018</b>	<b>0.00053</b>	--	--	
A-21	12/04/08	<b>0.96</b>	--	--	<0.0010	<0.0010	<b>0.150</b>	<0.0010	--	--	
A-21	03/04/09	<b>0.48</b>	--	--	<b>0.0075</b>	<0.0005	<b>0.0068</b>	<b>0.021</b>	--	--	
A-21	06/02/09	<b>0.46</b>	--	--	<b>0.0027</b>	<0.00050	<b>0.0023</b>	<b>0.0059</b>	<b>0.0087</b>	--	
A-21	09/22/09	<b>0.27</b>	--	--	<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	--	--	<b>0.0026</b>	<0.0005	<b>0.0019</b>	<b>0.0046</b>	--	--	
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	<b>0.82</b>	--	--	<0.0010	<0.0010	<b>0.056</b>	<b>0.011</b>	--	--	
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	--	
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	<b>1.7</b>	--	--	<0.0010	<0.0010	<b>0.16</b>	<b>0.026</b>	--	--	
A-21	05/30/12	<b>1.5</b>	--	--	<0.0010	<0.0010	<b>0.027</b>	<0.0010	<0.0050	--	
A-21	08/25/12	<b>1.6</b>	--	--	<0.0010	<0.0010	<b>0.024</b>	<0.0010	--	--	
A-21	11/08/12	<b>0.53</b>	--	--	<0.0005	<0.0005	<b>0.0011</b>	<b>0.0015</b>	--	--	
A-21	02/28/13	<b>0.44</b>	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	02/14/02	<b>0.26</b>	<b>2.1</b>	<0.5	<b>0.060</b>	<b>0.0010</b>	<b>0.0099</b>	<b>0.0072</b>	<b>0.72</b>	<b>0.01</b>	
A-23R	05/20/02	<b>0.74</b>	<b>6.9</b>	<0.5	<b>0.15</b>	<0.001	<b>0.088</b>	<b>0.0067</b>	<b>0.095</b>	<b>0.01</b>	

**Table 2**



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

Sample ID	Date	TPH-Gasoline	TPH-Diesel	TPH-Heavy-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
A-23R	08/28/02	0.62	2.1	<0.5	0.20	0.0035	0.021	0.0075	0.23	<0.005	
A-23R	11/05/02	0.74	1.7	<0.5	0.22	<0.0015	0.0059	0.014	0.18	<0.005	
A-23R	02/19/03	0.71	2.3	<0.5	0.26	0.0033	0.0054	0.0059	0.049	<0.005	
A-23R	06/10/03	<0.25	1.8	<0.25	0.0073	<0.001	0.0028	<0.001	<0.005	<0.005	
A-23R	09/16/03	0.70	1.3	<0.50	0.043	0.0029	0.057	0.0018	0.38	<0.005	
A-23R	11/19/03	1.0	0.78	<0.50	0.080	0.0037	0.069	0.0035	0.13	<0.005	
A-23R	02/25/04	1.6	0.78	<0.50	0.26	0.0072	0.061	0.015	0.081	<0.0050	
A-23R	05/12/04	0.28	0.45	<0.50	0.020	0.00075	0.0022	0.00082	<0.0050	<0.0050	
A-23R	08/25/04	2.3	0.35	<0.50	0.46	0.012	0.074	0.020	0.012	<0.0050	
A-23R	12/14/04	2.0	0.65	<0.50	0.37	0.0084	0.041	0.013	0.018	<0.0050	
A-23R	03/10/05	0.60	0.31	<0.50	0.035	0.0011	0.0045	0.0014	0.035	<0.0050	
A-23R	06/07/05	0.33	<0.25	<0.50	0.0080	<0.0005	0.0012	<0.0005	0.013	<0.0050	
A-23R	09/20/05	<0.25	<0.25	<0.50	0.00060	<0.0005	<0.0005	<0.0005	0.0096	<0.0050	
A-23R	12/14/05	0.37	<0.25	<0.50	0.019	0.00056	0.00065	0.00058	0.032	<0.0050	
A-23R	03/15/06	1.1	<0.25	<0.50	0.34	0.0033	<0.0025	0.0051	<0.0050	<0.0050	
A-23R	06/08/06	0.34	<0.25	<0.50	0.033	<0.0005	<0.0005	0.031	0.0081	<0.0050	
A-23R	09/12/06	0.42	<0.25	<0.50	0.010	<0.0005	0.032	0.0013	0.035	<0.0050	
A-23R	12/12/06	2.1	<0.25	<0.50	0.52	0.0066	0.053	0.021	<0.0050	<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	<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	--	--	
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	<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	<0.0040	
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	<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-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	--	--	

**Table 2**

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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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	--	<0.0050	
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	--	--	
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	--	--	

**Table 2**



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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-28R	02/14/02	5.3	2.7	<0.5	0.66	0.027	0.42	0.20	0.035	<0.005	
A-28R	05/22/02	3.1	6.7	<0.5	0.14	0.010	0.20	0.092	0.05	<0.005	
A-28R	08/29/02	4.0	6.0	<0.5	0.15	0.019	0.23	0.078	0.032	<0.005	
A-28R	11/06/02	3.4	1.8	<0.5	0.47	0.015	0.053	0.050	0.028	<0.005	
A-28R	02/19/03	3.5	4.6	<0.5	0.46	0.015	0.051	0.050	0.013	<0.005	
A-28R	06/10/03	3.7	2.9	<0.25	0.31	0.0081	0.085	0.051	0.064	<0.005	
A-28R	09/16/03	3.8	2.0	<0.50	1.0	0.013	0.075	0.048	0.17	<0.005	
A-28R	11/19/03	4.9	<0.25	<0.50	0.58	0.012	0.059	0.064	0.11	<0.005	
A-28R	02/25/04	5.1	1.7	<0.50	0.63	0.0093	0.19	0.076	0.008	<0.0050	
A-28R	05/12/04	6.5	2.6	<0.50	0.96	0.012	0.20	0.058	<0.0050	<0.0050	
A-28R	08/25/04	5.9	0.88	<0.50	2.1	0.018	0.050	0.053	0.043	<0.0050	
A-28R	12/14/04	7.6	3.0	<0.50	1.4	0.015	0.073	0.062	0.025	<0.0050	
A-28R	03/10/05	10	0.76	<0.50	1.9	0.019	0.077	0.064	0.0078	<0.0050	
A-28R	06/07/05	6.4	1.2	<0.50	2.1	0.015	0.069	0.048	0.0068	<0.0050	
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	<0.0050	
A-28R	03/15/06	4.6	<0.25	<0.50	0.80	0.012	0.11	0.035	<0.0050	<0.0050	
A-28R	06/08/06	4.2	0.49	0.73	0.87	0.013	0.070	0.035	0.019	<0.0050	
A-28R	09/12/06	5.2	<0.25	<0.50	1.0	0.015	0.048	0.036	0.016	<0.0050	
A-28R	12/12/06	4.0	0.57	<0.50	0.30	0.0095	0.027	0.028	<0.0050	<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	--	--	

Table 2



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

Sample ID	Date	TPH-Gasoline	TPH-Diesel	TPH-Heavy-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
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 V	0.044	0.0059	--	--	
A-29R	05/25/11	5.6	--	--	2.3	0.018	<0.015	0.024	--	--	
MW-1	02/13/02	<0.25	2.0	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-1	05/21/02	<0.25	1.9	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-1	08/28/02	<0.25	1.0	<0.5	0.0013	0.0067	0.00052	0.0016	<0.005	<0.005	
MW-1	11/05/02	<0.25	0.87	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.021	<0.005	
MW-1	02/19/03	<0.25	1.9	<0.5	<0.0005	0.00058	<0.0005	<0.0005	<0.005	<0.005	
MW-1	06/10/03	<0.25	1.1	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-1	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	11/19/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	02/25/04	<0.25	1.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	05/11/04	<0.25	0.87	<0.50	<0.0005	0.00068	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	08/25/04	0.83	0.40	<0.50	<0.0005	<0.0005	0.00065	<0.0005	<0.0050	<0.0050	
MW-1	12/15/04	<0.25	0.38	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	03/09/05	<0.25	0.63	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	06/08/05	<0.25	0.80	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	09/21/05	<0.25	0.40	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	06/07/06	<0.25	0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0052	<0.0050	
MW-1	12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<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-2	02/13/02	<0.25	0.71	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-2	05/21/02	<0.25	0.66	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-2	08/29/02	<0.25	0.91	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-2	11/05/02	<0.25	0.73	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-2	02/19/03	<0.25	0.74	<0.5	<0.0005	0.00062	<0.0005	<0.0005	0.028	<0.005	
MW-2	06/10/03	<0.25	0.61	<0.25	<0.0005	0.00071	<0.0005	<0.0005	0.026	0.026	
MW-2	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.062	<0.0050	
MW-2	11/19/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.021	<0.0050	
MW-2	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.030	<0.0050	
MW-2	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-2	08/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-2	12/14/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-2	03/10/05	<0.25	0.29	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-2	06/07/05	<0.25	0.91	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.036	<0.0050	
MW-2	09/20/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	



Table 2



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

Sample ID	Date	TPH-Gasoline	TPH-Diesel	TPH-Heavy-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-4	11/19/03	0.25	19	<0.50	0.033	<0.001	0.0042	0.0069	--	--	Not Sampled
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	--	--	--	--	--	--	--	--	--	
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-5	02/13/02	<0.25	<0.25	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	Not Sampled
MW-5	05/21/02	<0.25	<0.5	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.01	<0.005	
MW-5	08/29/02	<0.25	1.2	<0.5	<0.0005	0.0018	<0.0005	0.00063	<0.005	<0.005	
MW-5	11/05/02	<0.25	1.6	<0.5	0.0055	0.0016	<0.0005	0.00056	<0.005	<0.005	
MW-5	02/20/03	<0.25	<0.25	<0.5	<0.0005	0.00066	<0.0005	<0.0005	<0.005	<0.005	
MW-5	06/11/03	<0.25	0.36	<0.25	<0.0005	0.00079	<0.0005	<0.0005	<0.005	<0.005	
MW-5	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.011	<0.0050	
MW-5	11/20/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0086	<0.0050	
MW-5	02/24/04	<0.25	<0.50	<0.50	<0.0005	0.0014	<0.0005	<0.0005	<0.0050	<0.0050	
MW-5	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-5	08/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-5	12/15/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-5	03/09/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.11	<0.0050	
MW-5	06/08/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-5	09/21/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-5	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-5	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.012	<0.0050	
MW-5	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0099	<0.0050	
MW-5	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.013	<0.0050	
MW-5	12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0088	<0.0050	
MW-5	06/20/07	--	--	--	--	--	--	--	--	--	
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	--	
MW-5	06/08/10	<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

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



**Table 2**



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

Sample ID	Date	TPH-Gasoline	TPH-Diesel	TPH-Heavy-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-6	08/25/12	0.27	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
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-7	02/14/02	13	7.5	<0.5	0.20	0.24	0.57	1.8	0.035	<0.005	
MW-7	05/21/02	6.6	11	<0.5	0.16	0.089	0.43	0.66	0.04	<0.005	
MW-7	08/29/02	2.9	5.7	<0.5	0.12	0.042	0.24	0.11	0.047	<0.005	
MW-7	11/05/02	0.90	5.9	<0.5	0.021	0.0022	0.0040	0.0066	0.041	<0.005	
MW-7	02/20/03	9.7	11	<0.5	0.12	0.13	0.33	1.4	0.11	0.038	
MW-7	06/11/03	5.7	8.7	<0.25	0.13	0.092	0.26	0.52	0.081	0.015	
MW-7	09/17/03	1.4	12	<0.50	0.078	0.031	0.15	0.089	0.11	0.014	
MW-7	11/20/03	0.26	0.79	<0.50	<0.0005	<0.0005	<0.0005	0.035	0.019	0.0063	
MW-7	02/26/04	15	21	<0.50	0.11	0.34	0.63	3.8	0.034	0.0083	
MW-7	05/11/04	6.3	11	<0.50	0.059	0.15	0.31	1.3	0.0083	0.0070	
MW-7	08/26/04	7.1	20	<0.50	0.054	0.22	0.34	1.7	0.067	0.0067	
MW-7	12/15/04	18	4.4	<0.50	0.14	0.37	0.53	3.0	0.19	0.040	
MW-7	03/09/05	3.5	2.1	<0.50	0.045	0.034	0.090	0.27	0.079	0.010	
MW-7	06/08/05	2.9	2.3	<0.50	0.054	0.050	0.11	0.44	0.069	0.010	
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	0.016	
MW-7	03/14/06	15	0.50	<0.50	0.12	0.26	0.50	3.6	0.026	<0.0050	
MW-7	06/07/06	17	0.85	<0.50	0.12	0.35	0.69	4.5	0.023	<0.0050	
MW-7	09/13/06	2.4	0.32	<0.50	0.050	0.055	0.19	0.39	0.021	0.056	
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	<0.0050	
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	<0.0050	
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*	<0.0050	
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	--	--	
MW-7	06/09/10	4.9	--	--	0.0075	0.058	0.25	1.2	0.0064*	<0.0050	
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	<0.0050	
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	--	--	

**Table 2**



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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	<0.0050	
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	0.550	--	--	
MW-7	02/28/13	1.3	--	--	<0.0015 V	0.0070	0.0070	0.190	--	--	
MW-8	02/14/02	<0.25	8.1	<5.0	<0.0005	0.00086	<0.0005	<0.0005	0.03	<0.005	
MW-8	08/29/02	<0.25	7.5	<0.5	<0.0005	0.00082	<0.0005	<0.0005	0.017	<0.005	
MW-8	11/05/02	<0.25	1.7	1.2	<0.0005	<0.0005	<0.0005	<0.0005	0.012	<0.005	
MW-8	02/20/03	<0.25	6.6	<0.5	<0.0005	0.00055	<0.0005	0.0024	0.029	<0.005	
MW-8	06/11/03	<0.25	3.8	<0.25	0.0013	<0.001	<0.001	<0.001	0.012	<0.005	
MW-8	09/17/03	<0.25	3.3	0.77	<0.0005	<0.0005	<0.0005	<0.0005	0.03	<0.0050	
MW-8	11/20/03	<0.25	2.5	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-8	02/26/04	<0.25	2.7	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.016	<0.0050	
MW-8	05/11/04	<0.25	1.5	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-8	08/26/04	<0.25	1.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-8	12/15/04	<0.25	1.5	<0.50	<0.001	<0.001	<0.001	<0.001	0.0071	<0.0050	
MW-8	03/09/05	<0.25	1.6	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0094	<0.0050	
MW-8	06/08/05	<0.25	1.8	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.014	<0.0050	
MW-8	09/21/05	<0.25	0.97	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.011	<0.0050	
MW-8	12/14/05	<0.25	1.1	0.58	<0.001	<0.001	<0.001	0.0013	0.0060	<0.0050	
MW-8	03/14/06	<0.25	0.54	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.011	<0.0050	
MW-8	06/07/06	<0.25	0.88	0.61	<0.0005	<0.0005	<0.0005	<0.0005	0.0093	<0.0050	
MW-8	09/13/06	<0.25	0.35	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.012	<0.0050	
MW-8	12/13/06	<0.25	0.82	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0060	<0.005	
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	--r	
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	--	
MW-8	05/31/12	<0.25	<0.25	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	0.032	--	
MW-9	06/11/03	6.0	13	<0.50	0.0031	0.036	0.076	0.60	0.022	<0.005	
MW-9	09/17/03	5.3	39	0.72	0.026	0.027	0.090	0.45	0.0095	<0.0050	
MW-9	11/20/03	8.5	19	<0.50	<0.005	0.018	0.14	1.1	0.0096	<0.0050	
MW-9	02/26/04	4.1	28	<0.50	0.022	0.0072	0.025	0.47	0.0083	<0.0050	
MW-9	05/11/04	4.1	5.8	<0.50	0.0023	0.0093	0.081	0.44	<0.0050	<0.0050	
MW-9	08/26/04	4.2	6.2	<0.50	0.0066	0.025	0.13	0.43	0.0099	<0.0050	
MW-9	12/15/04	5.4	7.6	<0.50	<0.0025	0.011	0.12	0.39	0.0094	<0.0050	
MW-9	03/09/05	4.5	3.5	<0.50	0.0037	0.0047	0.042	0.18	0.021	<0.0050	
MW-9	06/08/05	3.2	3.9	<0.50	0.0035	0.0087	0.069	0.17	0.0076	<0.0050	
MW-9	09/21/05	2.3	2.6	<0.50	0.0070	0.0077	0.033	0.12	0.0076	<0.0050	
MW-9	12/14/05	4.7	1.2	<0.50	0.0078	0.010	0.12	0.38	0.0095	<0.0050	
MW-9	03/14/06	2.4	1.4	<0.50	0.0024	0.0034	0.018	0.12	0.013	<0.0050	
MW-9	06/07/06	<0.25	1.0	<0.50	0.0011	0.023	0.049	0.21	0.021	<0.0050	
MW-9	09/13/06	1.8	0.46	<0.50	0.0044	0.016	0.063	0.064	0.010	<0.0050	

Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
MW-9	12/13/06	2.6	3.8	<0.50	<0.0025	<0.0025	0.024	0.19	0.025	<0.0050	
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-12	06/19/01	<0.05	1.6	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004	<0.004	
MW-12	06/20/01	<0.06	1.7	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004	<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	<0.005	
MW-12R	05/21/02	<0.25	2.5	<0.5	0.080	0.0013	<0.0005	0.00066	<0.005	<0.005	
MW-12R	08/28/02	<0.25	2.1	<0.5	0.028	0.0059	<0.0005	0.0015	<0.005	<0.005	
MW-12R	11/05/02	<0.25	1.3	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-12R	02/19/03	0.26	2.5	<0.5	0.19	0.0012	<0.001	<0.001	<0.005	<0.005	
MW-12R	06/10/03	0.41	1.3	<0.25	0.11	0.00055	<0.0005	<0.0005	<0.005	<0.005	
MW-12R	09/16/03	<0.25	0.67	<0.50	0.0021	<0.0005	<0.0005	<0.0005	0.013	<0.0050	
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	<0.0050	
MW-12R	05/12/04	0.56	0.74	<0.50	0.20	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-12R	08/26/04	0.35	0.50	<0.50	0.089	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-12R	12/15/04	<0.25	0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-12R	03/09/05	<0.25	0.39	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-12R	06/08/05	<0.25	0.39	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0050	
MW-12R	09/21/05	0.26	0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	

Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
MW-12R	03/14/06	<0.25	<0.25	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-12R	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-12R	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-12R	12/13/06	<0.25	<b>0.27</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-12R	12/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-12R	06/20/07	<0.25	--	--	<0.0005	<b>0.0010</b>	<0.0005	<0.0005	<0.0050	--	
MW-12R	06/05/08	<0.25	<b>0.78</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-12R	06/01/09	<0.25	<b>0.32</b>	<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	<b>0.41</b>	<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-13	06/19/01	<0.05	<b>1.3</b>	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004	<0.004	
MW-13 Destroyed during construction activities											
MW-13R	02/14/02	<0.25	<b>3.2</b>	<0.5	<b>0.056</b>	<0.0005	<0.0005	<b>0.00075</b>	<0.005	<0.005	
MW-13R	05/21/02	<0.25	<b>3.5</b>	<0.5	<b>0.0025</b>	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-13R	08/28/02	<0.25	<b>2.4</b>	<0.5	<0.0005	<b>0.0019</b>	<0.0005	<b>0.00070</b>	<0.005	<0.005	
MW-13R	11/05/02	<0.25	<b>2.0</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-13R	02/19/03	<0.25	<b>1.7</b>	<0.5	<b>0.00078</b>	<b>0.0032</b>	<0.0005	<b>0.00083</b>	<0.005	<0.005	
MW-13R	06/10/03	<0.25	<b>0.76</b>	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-13R	09/16/03	<0.25	<b>1.4</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0078</b>	<0.0050	
MW-13R	11/19/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0066</b>	--	
MW-13R	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.012</b>	<0.0050	
MW-13R	05/12/04	<0.25	<b>0.61</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	08/26/04	<0.25	<b>0.49</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	12/15/04	<0.25	<b>0.91</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	03/09/05	<0.25	<b>0.35</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	06/08/05	<0.25	<b>0.49</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0050	
MW-13R	09/21/05	<0.25	<b>0.39</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	03/14/06	<0.25	<0.25	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-13R	06/07/06	<0.25	<0.25	<0.50	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	
MW-13R	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	12/13/06	<0.25	<b>0.33</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0077	<0.0050	
MW-13R	12/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<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	<b>2.5</b>	<b>37</b>	<5.0	<b>0.010</b>	<b>0.0085</b>	<b>0.18</b>	<b>0.22</b>	--	--	
MW-14	05/21/02	<b>2.9</b>	<b>23</b>	<b>1.0</b>	<b>0.0093</b>	<b>0.0057</b>	<b>0.18</b>	<b>0.15</b>	--	--	
MW-14	08/29/02	<b>2.9</b>	<b>28</b>	<0.5	<b>0.017</b>	<b>0.0073</b>	<b>0.21</b>	<b>0.14</b>	--	--	
MW-14	11/05/02	<b>2.0</b>	<b>28</b>	<b>0.91</b>	<b>0.060</b>	<b>0.0059</b>	<b>0.12</b>	<b>0.076</b>	--	--	
MW-14	02/20/03	<b>3.4</b>	<b>18</b>	<0.5	<b>0.056</b>	<b>0.0062</b>	<b>0.14</b>	<b>0.11</b>	--	--	

**Table 2**

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

Sample ID	Date	TPH-Gasoline	TPH-Diesel	TPH-Heavy-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
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	--	--	
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	--	--	<0.0005	<0.0005	0.0028	0.0017	--	--	
MW-14	11/08/12	<0.25	--	--	<0.005	<0.005	<0.005	0.0041	--	--	
MW-14	02/28/13	<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	--	--	

Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
MW-16	02/19/03	<0.25	<0.25	<0.5	<0.0005	<b>0.0018</b>	<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	<b>0.0013</b>	<0.0005	<b>0.00062</b>	--	--	
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	<b>0.029</b>	<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	<b>0.00062</b>	<b>0.0012</b>	<0.0005	--	--	
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	<b>0.39</b>	<b>0.43</b>	<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	<b>0.0012</b>	--	--	
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-18	02/13/02	<b>7.6</b>	<b>0.77</b>	<0.5	<b>1.8</b>	<b>0.067</b>	<b>0.29</b>	<b>0.34</b>	--	--	
MW-18	05/21/02	<b>1.2</b>	<b>0.30</b>	<0.5	<b>0.25</b>	<b>0.016</b>	<b>0.068</b>	<b>0.068</b>	--	--	
MW-18	08/29/02	<b>1.6</b>	<0.5	<0.5	<b>0.45</b>	<b>0.014</b>	<b>0.032</b>	<b>0.044</b>	--	--	
MW-18	11/05/02	<b>1.1</b>	<0.25	<0.5	<0.3	<b>0.010</b>	<b>0.011</b>	<b>0.031</b>	--	--	
MW-18	02/19/03	<0.25	<0.25	<0.5	<b>0.0035</b>	<b>0.0047</b>	<0.0005	<b>0.0016</b>	--	--	
MW-18	06/10/03	<0.25	<0.25	<0.25	<b>0.022</b>	<b>0.0016</b>	<0.0005	<b>0.0040</b>	--	--	
MW-18	09/16/03	<0.25	<0.50	<0.50	<b>0.036</b>	<b>0.0019</b>	<0.0005	<b>0.0075</b>	--	--	
MW-18	11/19/03	<0.25	<0.25	<0.50	<b>0.0042</b>	<0.0005	<0.0005	<b>0.0015</b>	--	--	
MW-18	02/25/04	<b>0.58</b>	<0.25	<0.50	<b>0.11</b>	<b>0.0048</b>	<b>0.00087</b>	<b>0.026</b>	--	--	
MW-18	05/11/04	<b>1.1</b>	<0.25	<0.50	<b>0.25</b>	<b>0.0073</b>	<b>0.0016</b>	<b>0.037</b>	--	--	
MW-18	08/26/04	<0.25	<0.25	<0.50	<b>0.0030</b>	<0.0005	<0.0005	<0.0005	--	--	
MW-18	12/15/04	<b>0.84</b>	<0.25	<0.50	<b>0.14</b>	<b>0.0060</b>	<b>0.0019</b>	<b>0.029</b>	--	--	
MW-18	03/10/05	<b>0.84</b>	<0.25	<0.50	<b>0.25</b>	<b>0.0049</b>	<b>0.0020</b>	<b>0.021</b>	--	--	
MW-18	06/07/05	<b>0.68</b>	<0.25	<0.50	<b>0.17</b>	<b>0.0039</b>	<b>0.0019</b>	<b>0.0098</b>	--	--	
MW-18	09/20/05	<b>4.0</b>	<0.25	<0.50	<b>0.74</b>	<b>0.021</b>	<b>0.0091</b>	<b>0.090</b>	--	--	
MW-18	12/13/05	<b>2.3</b>	<0.25	<0.50	<b>0.45</b>	<b>0.015</b>	<b>0.0067</b>	<b>0.033</b>	--	--	
MW-18	03/15/06	<b>4.9</b>	<0.25	<0.50	<b>1.2</b>	<b>0.035</b>	<b>0.025</b>	<b>0.12</b>	--	--	
MW-18	06/08/06	<b>1.2</b>	<0.25	<0.50	<b>0.15</b>	<b>0.011</b>	<b>0.011</b>	<b>0.034</b>	--	--	
MW-18	09/12/06	<b>0.35</b>	<0.25	<0.50	<b>0.023</b>	<b>0.0021</b>	<b>0.0022</b>	<b>0.0047</b>	--	--	
MW-18	12/12/06	<b>0.28</b>	<0.25	<0.50	<b>0.023</b>	<b>0.0018</b>	<b>0.0019</b>	<b>0.0060</b>	--	--	
MW-18	03/27/07	<b>0.78</b>	--	--	<b>0.022</b>	<b>0.0029</b>	<b>0.0051</b>	<b>0.012</b>	--	--	
MW-18	06/19/07	<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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
MW-18	09/24/07	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	12/11/07	<0.25	--	--	<b>0.011</b>	<b>0.00075</b>	<0.0005	<b>0.0032</b>	--	--	
MW-18	03/04/08	<b>0.29</b>	--	--	<b>0.0090</b>	<b>0.0016</b>	<b>0.00050</b>	<b>0.00088</b>	--	--	
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	--	--	<b>0.00080</b>	<0.0005	<0.0005	<0.0005	--	--	
MW-18	06/03/09	<0.25	--	--	<b>0.00061</b>	<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	<b>0.0011</b>	--	--	
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	--	--	
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-19	02/13/02	<b>29</b>	<b>6.8</b>	<2.5	<b>0.057</b>	<b>0.73</b>	<b>0.58</b>	<b>6.5</b>	--	--	
MW-19	05/21/02	<b>30</b>	<b>7.7</b>	<0.5	<b>0.049</b>	<b>0.65</b>	<b>0.53</b>	<b>6.5</b>	--	--	
MW-19	08/29/02	<b>13</b>	<b>11</b>	<0.5	<b>0.14</b>	<b>0.29</b>	<b>0.20</b>	<b>2.1</b>	--	--	
MW-19	11/05/02	<b>8.2</b>	<b>3.0</b>	<0.5	<b>0.21</b>	<b>0.37</b>	<b>0.16</b>	<b>1.7</b>	--	--	
MW-19	02/20/03	<b>38</b>	<b>19</b>	<0.5	<b>0.091</b>	<b>1.2</b>	<b>0.80</b>	<b>8.0</b>	--	--	
MW-19	06/11/03	<b>32</b>	<b>15</b>	<1.0	<b>0.042</b>	<b>0.38</b>	<b>0.80</b>	<b>6.7</b>	--	--	
MW-19	09/16/03	<b>4.2</b>	<b>12</b>	<0.50	<b>0.19</b>	<b>0.043</b>	<b>0.19</b>	<b>1.1</b>	--	--	
MW-19	11/20/03	<b>22</b>	<b>10</b>	<0.50	<b>0.11</b>	<b>0.67</b>	<b>0.75</b>	<b>6.1</b>	--	--	
MW-19	02/24/04	<b>19</b>	<b>14</b>	<0.50	<0.015	<b>0.49</b>	<b>0.63</b>	<b>4.7</b>	--	--	
MW-19	05/11/04	<b>27</b>	<b>13</b>	<0.50	<0.025	<b>0.22</b>	<b>0.87</b>	<b>7.2</b>	--	--	
MW-19	08/26/04	<b>22</b>	<b>0.72</b>	<0.50	<b>0.042</b>	<b>0.26</b>	<b>0.64</b>	<b>4.6</b>	--	--	
MW-19	12/15/04	<b>15</b>	<b>7.6</b>	<0.50	<b>0.039</b>	<b>0.12</b>	<b>0.37</b>	<b>2.7</b>	--	--	
MW-19	03/09/05	<b>27</b>	<b>9.1</b>	<0.50	<b>0.073</b>	<b>0.18</b>	<b>0.56</b>	<b>3.4</b>	--	--	
MW-19	06/08/05	<b>17</b>	<b>6.3</b>	<0.50	<b>0.071</b>	<b>0.17</b>	<b>0.61</b>	<b>2.8</b>	--	--	
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	<b>14</b>	<b>1.4</b>	<0.50	<0.010	<b>0.043</b>	<b>0.29</b>	<b>1.4</b>	--	--	
MW-19	09/13/06	<b>11</b>	<b>0.50</b>	<0.50	<b>0.032</b>	<b>0.047</b>	<b>0.41</b>	<b>1.1</b>	--	--	
MW-19	12/13/06	<b>8.0</b>	<b>1.4</b>	<0.50	<b>0.016</b>	<b>0.052</b>	<b>0.30</b>	<b>1.4</b>	--	--	
MW-19	03/27/07	<b>13</b>	--	--	<0.010	<b>0.047</b>	<b>0.35</b>	<b>1.8</b>	--	--	
MW-19	06/20/07	<b>12</b>	--	--	<b>0.050</b>	<b>0.092</b>	<b>0.29</b>	<b>1.2</b>	--	--	



Table 2



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Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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	--	--	
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	0.280	0.180	--	--	
MW-19	02/28/13	8.1	--	--	0.045	0.130	0.440	0.770	--	--	
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	--	--	



Table 2



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 2720 13th Avenue Southwest  
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Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
MW-20	06/05/08	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
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	<b>0.00054</b>	<b>0.0028</b>	--	--	
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-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	<b>0.97</b>	<b>19</b>	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	02/26/04	<b>2.3</b>	<b>35</b>	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	05/11/04	<b>1.2</b>	<b>29</b>	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	08/26/04	<b>4.3</b>	<b>33</b>	<0.50	<0.001	<0.001	<b>0.0013</b>	<b>0.0014</b>	--	--	
MW-21	12/15/04	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	03/09/05	<b>2.4</b>	<b>140</b>	<5.0	<0.0015	<0.0015	<b>0.0016</b>	<0.0015	--	--	
MW-21	06/08/05	<b>1.8</b>	<b>31</b>	<b>0.50</b>	<0.002	<0.002	<b>0.0026</b>	<0.002	--	--	
MW-21	09/21/05	<b>1.7</b>	<b>46</b>	<b>3.3</b>	<0.0010	<0.0010	<b>0.0013</b>	<0.0010	--	--	
MW-21	12/14/05	<b>1.0</b>	<b>6.1</b>	<b>0.54</b>	<0.002	<0.002	<b>0.0027</b>	<0.002	--	--	
MW-21	03/14/06	<0.25	<b>33</b>	<b>3.1</b>	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	06/07/06	<b>0.77</b>	<b>18</b>	<b>1.2</b>	<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	<b>9.6</b>	<b>0.75</b>	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	06/20/07	<0.50	<b>8.5</b>	<b>0.66</b>	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	09/24/07	<b>0.36</b>	<b>4.3</b>	<b>0.52</b>	<0.0015	<0.0015	<b>0.0018</b>	<0.0015	--	--	
MW-21	12/11/07	<0.25	<b>34</b>	<b>2.5</b>	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	03/04/08	<0.50	<b>12</b>	<b>0.92</b>	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	06/04/08	<0.30	<b>4.7</b>	<0.50	<0.0015	<0.0015	<0.015	<0.0015	--	--	
MW-21	09/08/08	<b>0.98</b>	<b>3.8</b>	<0.50	<0.0015	<b>0.0015</b>	<b>0.0049</b>	<b>0.0028</b>	--	--	
MW-21	12/05/08	<1.0	<b>4.8</b>	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
MW-21	03/04/09	<0.50	<b>6.4</b>	<b>0.89</b>	<0.0025	<0.0025	<0.0025	<b>0.0034</b>	--	--	
MW-21	06/02/09	<b>0.70</b>	<b>2.9</b>	<b>0.68</b>	<0.0010	<0.0010	<b>0.0016</b>	<0.0010	--	--	
MW-21	09/22/09	<b>1.7</b>	<b>4.7</b>	<0.50	<0.0025	<0.0025	<b>0.0029</b>	<0.0025	--	--	
MW-21	11/17/09	<0.25	<b>0.87</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	03/09/10	<0.25	<b>1.1</b>	<0.50	<b>0.0014</b>	<0.0010	<0.0010	<0.0005	--	--	
MW-21	09/10/10	<b>0.60</b>	<b>3.7</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	11/15/10	<0.25	<b>0.49</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	03/01/11	<0.25	<b>1.2</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	05/23/11	<0.25	<b>1.2</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	08/29/11	<b>0.35</b>	<b>3.7</b>	<b>0.98</b>	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	12/01/11	<0.25	<b>1.7</b>	--	<0.0010	<0.0010	<0.0010	<0.0020	--	--	
MW-21	03/01/12	<0.25	<b>0.51</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	05/31/12	<0.25	<b>6.1</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	08/25/12	<b>0.56</b>	<b>1.8</b>	<b>0.59</b>	<0.0025	<0.0025	<0.0025	<0.0025	--	--	

**Table 2**

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

Sample ID	Date	TPH-Gasoline	TPH-Diesel	TPH-Heavy-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-21	11/08/12	<0.25	<b>0.29</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	02/28/13	<0.25	<b>0.90</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	02/13/02	<b>0.96</b>	<b>9.2</b>	<0.5	<b>0.012</b>	<b>0.0053</b>	<b>0.017</b>	<b>0.0097</b>	--	--	
MW-22	05/21/02	<b>1.1</b>	<b>7.7</b>	<0.5	<b>0.16</b>	<b>0.049</b>	<b>0.023</b>	<b>0.030</b>	--	--	
MW-22	08/29/02	<b>1.4</b>	<b>2.4</b>	<0.5	<b>0.50</b>	<b>0.0093</b>	<b>0.044</b>	<b>0.0066</b>	--	--	
MW-22	11/05/02	<b>0.49</b>	<b>1.7</b>	<0.5	<b>0.14</b>	<b>0.0031</b>	<b>0.025</b>	<0.001	--	--	
MW-22	02/19/03	<0.25	<b>9.1</b>	<0.5	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	06/10/03	<0.25	<b>7.4</b>	<b>0.87a</b>	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	09/16/03	<0.25	<b>2.7</b>	<0.50	<b>0.0018</b>	<0.0005	<0.0005	<0.0005	--	--	
MW-22	11/19/03	<0.50	<b>8.4</b>	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-22	02/25/04	<0.25	<b>6.4</b>	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	05/11/04	<0.25	<b>2.0</b>	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	08/25/04	<0.25	<b>0.61</b>	<0.50	<0.001	<0.001	<0.001	<0.001	--	<0.005	
MW-22	12/14/04	<0.25	<b>1.1</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	03/10/05	<0.25	<b>2.2</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/07/05	<0.25	<b>3.0</b>	<0.50	<b>0.0049</b>	<0.001	<0.001	<0.001	--	--	
MW-22	09/20/05	<b>0.40</b>	<b>2.9</b>	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	12/13/05	<0.25	<b>0.71</b>	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	03/15/06	<0.25	<b>2.4</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/08/06	<0.25	<b>0.89</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	09/12/06	<0.25	<b>0.45</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	12/12/06	<0.25	<b>1.4</b>	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	06/19/07	<0.25	<b>1.1</b>	<0.50	<b>0.0094</b>	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/04/08	<0.25	<b>0.77</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/03/09	<0.25	<b>1.8</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/09/10	<0.25	<b>1.2</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.0011</b>	--	--	
MW-22	05/23/11	<0.25	<b>2.7</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-22	05/31/12	<1.0	<b>2.1</b>	<b>0.73</b>	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
MW-23	11/19/03	<b>5.3</b>	<b>1.4</b>	<0.50	<b>0.87</b>	<b>0.016</b>	<b>0.098</b>	<b>0.23</b>	--	--	
MW-23	02/25/04	<b>3.3</b>	<b>0.85</b>	<0.50	<b>0.91</b>	<b>0.011</b>	<b>0.046</b>	<b>0.030</b>	<b>0.0052</b>	<0.0050	
MW-23	05/12/04	<b>4.2</b>	<b>1.3</b>	<0.50	<b>1.1</b>	<b>0.013</b>	<b>0.046</b>	<b>0.048</b>	<0.0050	<0.0050	
MW-23	08/26/04	<b>5.3</b>	<b>0.72</b>	<0.50	<b>1.1</b>	<b>0.023</b>	<b>0.20</b>	<b>0.17</b>	<b>0.014</b>	<0.0050	
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	<b>6.3</b>	<0.25	<0.50	<b>1.3</b>	<b>0.014</b>	<b>0.048</b>	<b>0.044</b>	<0.0050	<0.0050	
MW-23	03/15/06	<b>7.0</b>	<b>0.28</b>	<0.50	<b>1.4</b>	<b>0.015</b>	<b>0.19</b>	<b>0.21</b>	<0.0050	<0.0050	
MW-23	06/08/06	<b>5.2</b>	<b>1.3</b>	<0.50	<b>1.4</b>	<b>0.014</b>	<b>0.11</b>	<b>0.11</b>	<0.0050	<0.0050	
MW-23	09/12/06	--	--	--	--	--	--	--	--	--	Not Sampled
MW-23	12/12/06	<b>8.1</b>	<0.25	<0.50	<b>1.8</b>	<b>0.020</b>	<b>0.11</b>	<b>0.16</b>	<0.0050	<0.0050	
MW-23	03/27/07	<b>8.4</b>	--	--	<b>1.8</b>	<b>0.019</b>	<b>0.16</b>	<b>0.16</b>	--	--	
MW-23	06/19/07	<b>8.7</b>	--	--	<b>1.8</b>	<b>0.021</b>	<b>0.23</b>	<b>0.23</b>	<0.0050	--	
MW-23	09/25/07	<b>6.9</b>	--	--	<b>1.5</b>	<b>0.021</b>	<b>0.085</b>	<b>0.11</b>	--	--	

**Table 2**



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

Sample ID	Date	TPH-Gasoline	TPH-Diesel	TPH-Heavy-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
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	0.059	0.0046	--	--	
MW-23	11/08/12	2.3	--	--	0.021	<0.0010	0.065	0.0038	--	--	
MW-23	02/28/13	2.6	--	--	0.034	<0.0025	0.160	0.010	--	--	
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	<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	--	
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	<0.0050	
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	--	--	

Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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	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	--	--	Duplicate of MW-24
MW-24	02/28/13	6.6	--	--	0.290	<0.010 V	0.390	0.840	--	--	
MW-24	02/28/13	9.0	--	--	0.480	0.016	0.590	1.300	--	--	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	<0.0050	
MW-25	05/12/04	<0.25	1.6	<0.50	<0.0005	<0.0005	0.0034	<0.0005	<0.0050	<0.0050	
MW-25	08/26/04	<0.25	0.27	<0.50	0.013	<0.0005	<0.0005	<0.0005	0.034	0.0079	
MW-25	12/14/04	<0.25	1.4	<0.50	0.0035	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-25	03/10/05	0.31	3.7	<0.50	0.0014	<0.0005	0.00064	<0.0005	<0.0050	<0.0050	
MW-25	06/07/05	0.40	3.2	<0.50	<0.001	<0.001	0.0014	<0.001	<0.0050	<0.0050	
MW-25	09/20/05	0.30	1.4	<0.50	0.0016	<0.0005	<0.0005	<0.0005	0.059	<0.0050	
MW-25	12/13/05	<0.25	1.2	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-25	03/15/06	<0.25	1.0	<0.50	0.0019	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-25	06/08/06	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-25	09/12/06	<0.25	0.31	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-25	12/12/06	<0.25	0.86	<0.50	0.0052	<0.0005	<0.0005	<0.0005	<0.0050	<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	--	
SH-02	12/20/00	0.078	<0.25	<0.5	0.0010	<0.001	<0.001	<0.003	0.015	<0.004	
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	<0.005	
SH-02R	05/21/02	<0.25	2.4	<0.5	0.037	<0.0005	<0.0005	<0.0005	0.005	<0.005	
SH-02R	08/28/02	<0.25	4.3	<0.5	0.087	0.0038	0.00061	0.0023	0.006	<0.005	

Table 2



**Groundwater Analytical Results**

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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
SH-02R	11/05/02	<0.25	<b>1.1</b>	<0.5	<b>0.016</b>	<0.0005	<0.0005	<0.0005	<b>0.005</b>	<0.005	
SH-02R	02/19/03	<0.25	<0.5	<0.5	<0.0005	<b>0.00086</b>	<0.0005	<0.0005	<0.005	<0.005	
SH-02R	06/10/03	<0.25	<b>0.97</b>	<0.25	<0.0005	<b>0.00051</b>	<0.0005	<0.0005	<b>0.0059</b>	<0.005	
SH-02R	09/16/03	<0.25	<b>3.0</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.010</b>	<0.0050	
SH-02R	11/19/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	02/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	05/12/04	<0.25	<b>0.74</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	08/26/04	<0.25	<b>0.58</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	12/15/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	03/09/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	06/08/05	<0.25	<b>0.31</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	09/21/05	<0.25	<b>0.58</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	12/14/05	<0.25	<b>0.30</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0078</b>	<0.0050	
SH-02R	03/14/06	<0.25	<b>0.30</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0072</b>	<0.0050	
SH-02R	06/07/06	<0.25	<b>0.59</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0050	
SH-02R	09/13/06	<0.25	<0.25	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0050	
SH-02R	12/13/06	<0.25	<b>0.49</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	06/20/07	<0.25	<b>0.77</b>	<0.50	<0.0010	<0.0010	<0.0010	<b>0.0016</b>	<0.0050	--	
SH-02R	06/05/08	<0.25	<b>0.28</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.00073</b>	<0.0050	--	
SH-02R	06/01/09	<0.25	<b>0.37</b>	<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	<b>0.29</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
SH-02R	06/01/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05	12/20/00	<0.05	<b>1.0</b>	<0.5	<0.001	<0.001	<0.003	<0.001	<b>0.017</b>	<0.004	
SH-05R	05/21/02	<b>0.71</b>	<b>11</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
SH-05R	08/28/02	<b>0.77</b>	<b>10</b>	<0.5	<0.0005	<b>0.0015</b>	<0.0005	<0.0005	<b>0.006</b>	<0.005	
SH-05R	11/05/02	<b>1.4</b>	<b>7.1</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.008</b>	<0.005	
SH-05R	02/19/03	<b>0.80</b>	<b>6.8</b>	<0.5	<0.001	<b>0.0016</b>	<0.001	<0.001	<0.005	<0.005	
SH-05R	06/10/03	<b>1.1</b>	<b>45</b>	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.04</b>	<0.005	
SH-05R	09/16/03	<0.25	<b>23</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.074</b>	<0.0050	
SH-05R	11/19/03	<b>0.62</b>	<b>19</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.075</b>	<0.0050	
SH-05R	02/25/04	<0.25	<b>5.3</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	05/12/04	<b>0.43</b>	<b>4.3</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	08/26/04	<b>0.63</b>	<b>3.0</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05R	12/15/04	<b>0.30</b>	<b>10</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0056</b>	<0.0050	
SH-05R	03/09/05	<b>0.78</b>	<b>4.3</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	06/08/05	<b>0.32</b>	<b>4.0</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	09/21/05	<b>0.61</b>	<b>2.8</b>	<b>1.0</b>	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	12/14/05	<b>0.78</b>	<b>1.3</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	03/14/06	<0.25	<b>1.4</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0074</b>	<0.0050	
SH-05R	06/07/06	<0.25	<b>1.4</b>	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050	<0.0050	
SH-05R	09/13/06	<b>0.34</b>	<b>0.56</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	12/13/06	<0.50	<b>1.9</b>	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	<0.0050	
SH-05R	06/20/07	<b>0.59</b>	<b>1.8</b>	<0.50	<0.0005	<b>0.00058</b>	<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

Sample ID	Date	TPH-Gasoline	TPH-Diesel	TPH-Heavy-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
SH-05R	06/05/08	<0.25	<b>1.7</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--r	
SH-05R	06/01/09	<b>0.36</b>	<b>0.99</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05R	06/08/10	<0.25	<b>0.28</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05R	05/23/11	<0.25	<b>1.4</b>	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	--	
MW-07R	02/13/02	<0.25	<b>1.2</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.035</b>	<0.005	
MW-07R	05/21/02	<0.25	<b>2.1</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.005</b>	<0.005	
MW-07R	08/28/02	<0.25	<b>2.4</b>	<0.5	<0.0005	<b>0.0028</b>	<0.0005	<b>0.0012</b>	<b>0.006</b>	<0.005	
MW-07R	11/05/02	<0.25	<b>3.7</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-07R	02/19/03	--	--	--	--	--	--	--	--	--	Not Sampled
MW-07R	06/10/03	--	--	--	--	--	--	--	--	--	Not Sampled
MW-07R	09/16/03	<0.25	<b>1.9</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.045</b>	<0.0050	
MW-07R	11/19/03	<0.25	<b>2.1</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.020</b>	<0.0050	
MW-07R	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	05/12/04	<0.25	<b>0.48</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	08/26/04	<0.25	<b>0.42</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0050	
MW-07R	12/15/04	<0.25	<b>0.85</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0076</b>	<0.0050	
MW-07R	03/09/05	<0.25	<b>0.54</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	06/08/05	<0.25	<b>0.46</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	09/21/05	<0.25	<b>0.70</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	03/14/06	<0.25	<b>0.25</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0065</b>	--	
MW-07R	12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<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	--r	
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	--	
TMW-B1	10/29/09	<b>5.7</b>	<0.25	<0.50	<b>0.12</b>	<b>0.0070</b>	<b>0.058</b>	<b>0.15</b>	--	--	
TMW-B1	05/25/11	<b>9.1</b>	--	--	<b>0.024</b>	<0.0050	<b>0.24</b>	<b>0.56</b>	--	--	
TMW-B1	12/02/11	<b>6.6</b>	--	--	<b>0.091</b>	<0.0050	<b>0.15</b>	<b>0.26</b>	--	--	
TMW-B1	03/01/12	<b>8.0</b>	--	--	<b>0.079</b>	<0.0025	<b>0.28</b>	<b>0.55</b>	--	--	
TMW-B1	11/08/12	<b>3.7</b>	--	--	<b>0.160</b>	<b>0.010</b>	<b>0.019</b>	<b>0.036</b>	--	--	
TMW-B1	02/28/13	<b>14</b>	--	--	<b>0.026</b>	<0.010 V	<b>0.500</b>	<b>0.870</b>	--	--	

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

a = Insulating oil range hydrocarbons were reported for MW-22 at concentration of 0.87 ppm.

o = Reporting limits were increased due to sample foaming.

V = Reporting limits were increased due to high concentrations of target analytes.

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 8021B from 5/20/98 through present.

r = Original consultant report unavailable.

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
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-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	02/14/02	2.50	<b>3</b>	<b>5.1</b>	--	<b>77.00</b>	<b>0.2</b>	
A-10	05/22/02	4.50	<b>7.4</b>	<b>17</b>	--	<b>49.00</b>	<b>0.1</b>	
A-10	08/28/02	1.40	<b>5.7</b>	<b>16</b>	--	<b>30.00</b>	<b>0.6</b>	
A-10	11/06/02	2.00	<b>5.9</b>	<b>15</b>	--	<b>10.00</b>	<b>0.3</b>	
A-10	02/20/03	2.70	<b>1.0</b>	<b>22</b>	--	<b>86</b>	<0.1	
A-10	06/10/03	1.40	<b>1.60</b>	<b>17.00</b>	--	<b>63.00</b>	<b>0.1</b>	
A-10	09/17/03	1.70	<b>3.20</b>	<b>47.00</b>	--	<b>12.00</b>	<b>0.6</b>	
A-10	11/20/03	1.40	<b>0.10</b>	<b>4.90</b>	--	<b>3.70</b>	<b>0.3</b>	
A-10	02/26/04	1.50	<b>0.24</b>	<b>5.10</b>	--	<b>61.00</b>	<b>0.2</b>	
A-10	05/12/04	0.60	--*a	<b>30.00</b>	--	<b>10.00</b>	<0.10	
A-10	08/25/04	1.65	<b>0.75</b>	<b>6.20</b>	--	<b>57.00</b>	<b>0.12</b>	
A-10	12/14/04	2.50	<b>0.093</b>	<0.050	--	<b>8.80</b>	<0.10	
A-10	03/10/05	2.58	<b>6.60</b>	<b>12.00</b>	--	<b>260.00</b>	<0.10	
A-10	06/07/05	1.51	<b>1.00</b>	<b>3.40</b>	--	<b>480.00</b>	<b>16</b>	
A-10	09/20/05	2.10	<b>2.40</b>	<b>5.60</b>	--	<b>320.00</b>	<b>0.23</b>	



### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
A-10	12/13/05	2.20	<b>0.067</b>	<0.050	--	<b>56.00</b>	<0.10	
A-10	03/15/06	2.20	<b>2.50</b>	<b>42.00</b>	--	<b>60.00</b>	<b>0.18</b>	
A-10	06/08/06	1.00	<b>1.60</b>	<b>7.80</b>	--	<b>4.30</b>	<b>0.22</b>	
A-10	09/12/06	1.60	<b>1.40</b>	<b>15.00</b>	--	<b>140.00</b>	<b>0.18</b>	
A-10	12/12/06	2.00	<b>0.088</b>	<b>2.00</b>	--	<b>7.90</b>	<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	02/14/02	7.50	<b>0.058</b>	<b>2.4</b>	--	<b>190.00</b>	<b>0.2</b>	
A-14R	05/22/02	4.10	<b>0.026</b>	<b>1.1</b>	--	<b>210.00</b>	<b>0.1</b>	
A-14R	08/28/02	1.50	<b>0.034</b>	<b>0.7</b>	--	<b>290.00</b>	<0.1	
A-14R	11/06/02	2.30	<b>0.054</b>	<b>0.4</b>	--	<b>290.00</b>	<b>0.1</b>	
A-14R	02/20/03	2.90	<b>0.26</b>	<0.2	--	<b>300</b>	<0.1	
A-14R	06/10/03	2.00	<b>0.21</b>	<b>2.20</b>	--	<b>220.00</b>	<b>0.3</b>	
A-14R	09/17/03	1.90	<b>2.40</b>	<b>3.40</b>	--	<b>240.00</b>	<b>0.2</b>	
A-14R	11/20/03	1.80	<b>0.45</b>	<b>2.40</b>	--	<b>250.00</b>	<0.1	
A-14R	02/26/04	1.40	<b>3.30</b>	<b>0.31</b>	--	<b>190.00</b>	<b>0.1</b>	
A-14R	05/12/04	2.30	<b>1.40</b>	<0.050	--	<b>130.00</b>	<0.10	
A-14R	08/25/04	3.22	<b>4.30</b>	<b>0.66</b>	--	<b>200.00</b>	<0.10	
A-14R	12/14/04	3.00	<b>3.50</b>	<b>1.00</b>	--	<b>230.00</b>	<0.10	
A-14R	03/10/05	2.15	<b>1.30</b>	<b>2.40</b>	--	<b>290.00</b>	<0.10	
A-14R	06/07/05	1.00	<b>0.28</b>	<b>0.16</b>	--	<b>220.00</b>	<0.2	
A-14R	09/20/05	--	--	--	--	--	--	Not Sampled
A-14R	12/13/05	1.10	<b>1.60</b>	<b>3.70</b>	--	<b>150.00</b>	<0.10	
A-14R	03/15/06	1.10	<b>0.82</b>	<b>0.14</b>	--	<b>80.00</b>	<0.10	
A-14R	06/08/06	2.40	<b>1.50</b>	<b>0.53</b>	--	<b>38.00</b>	<0.10	
A-14R	09/12/06	2.00	<b>0.19</b>	<b>0.80</b>	--	<b>110.00</b>	<0.10	
A-14R	06/19/07	1.90	--	--	--	--	--	
A-14R	12/12/07	2.90	<b>1.2</b>	<b>0.76</b>	--	<b>99.00</b>	<0.10	
A-14R	06/03/08	1.90	--	--	--	--	--	
A-14R	06/02/09	1.00	--	--	--	--	--	
A-14R	06/09/10	0.00	--	--	--	--	--	
A-14R	05/25/11	1.05	--	--	--	--	--	
A-14R	06/01/12	0.00	--	--	--	--	--	
A-21	02/14/02	0.20	<b>0.27</b>	<b>40.00</b>	--	<b>76.00</b>	<0.1	
A-21	05/22/02	4.20	<b>0.18</b>	<b>32.00</b>	--	<b>57.00</b>	<0.1	
A-21	08/29/02	2.10	<b>0.31</b>	<b>33.00</b>	--	<b>41.00</b>	<b>0.3</b>	



### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
A-21	11/06/02	1.60	<b>0.64</b>	<b>32.00</b>	--	<b>32.00</b>	<0.1	
A-21	02/19/03	1.90	<b>1.60</b>	<b>28.00</b>	--	<b>2.90</b>	<b>0.1</b>	
A-21	06/10/03	1.30	<b>2.80</b>	<b>31.00</b>	--	<b>0.30</b>	<b>0.2</b>	
A-21	09/16/03	1.60	<b>4.10</b>	<b>33.00</b>	--	<b>5.30</b>	<b>0.7</b>	
A-21	11/19/03	1.70	<b>5.60</b>	<b>26.00</b>	--	<b>16.00</b>	<b>0.2</b>	
A-21	02/25/04	2.10	<b>2.60</b>	<b>31.00</b>	--	<b>1.20</b>	<b>0.4</b>	
A-21	05/12/04	0.80	<b>1.80</b>	<b>33.00</b>	--	<b>0.79</b>	<0.10	
A-21	08/25/04	1.44	<b>5.80</b>	<b>16.00</b>	--	<b>2.40</b>	<b>0.11</b>	
A-21	12/14/04	2.72	<b>11.00</b>	<b>4.60</b>	--	<b>0.74</b>	<b>0.12</b>	
A-21	03/10/05	1.50	<b>8.50</b>	<b>19.00</b>	--	<b>0.79</b>	<0.10	
A-21	06/07/05	1.50	<b>3.80</b>	<b>3.30</b>	--	<0.50	<b>0.7</b>	
A-21	09/20/05	2.60	<b>6.10</b>	<b>27.00</b>	--	<0.50	<0.10	
A-21	12/13/05	2.50	<b>7.50</b>	<b>30.00</b>	--	<0.50	<0.10	
A-21	03/15/06	2.50	<b>3.20</b>	<b>32.00</b>	--	<0.50	<0.10	
A-21	06/08/06	2.80	<b>2.20</b>	<b>33.00</b>	--	<0.50	<0.10	
A-21	09/12/06	2.60	<b>2.90</b>	<b>31.00</b>	--	<0.50	<0.10	
A-21	12/12/06	3.10	<b>3.20</b>	<b>46.00</b>	--	<b>130.00</b>	<b>0.11</b>	
A-21	03/27/07	3.80	--	--	--	--	--	
A-21	06/19/07	2.10	<b>0.19</b>	<b>24</b>	--	<b>120</b>	<b>0.13</b>	
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	<b>0.11</b>	<b>20.00</b>	--	<b>150.00</b>	<b>0.14</b>	
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	<b>0.028</b>	<b>8.00</b>	--	<b>320.00</b>	<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	<b>0.015</b>	<b>0.72</b>	--	<b>85.00</b>	<0.10	
A-21	09/10/10	3.49	--	--	--	--	--	
A-21	11/16/10	0.33	--	--	--	--	--	
A-21	03/02/11	1.50	--	--	--	--	--	
A-21	05/24/11	1.54	<b>0.038</b>	<b>0.19</b>	--	<b>25.00</b>	<b>0.10</b>	
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	<b>9.60</b>	--	<b>940.00</b>	<b>0.15</b>	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
A-23R	02/14/02	1.20	<b>1.70</b>	<b>29.00</b>	--	<b>580.00</b>	<0.1	
A-23R	05/20/02	2.30	<b>1.80</b>	<b>26.00</b>	--	<b>420.00</b>	<0.1	
A-23R	08/28/02	2.40	<b>4.10</b>	<b>13.00</b>	--	<b>270.00</b>	<b>0.20</b>	
A-23R	11/05/02	2.40	<b>3.60</b>	<b>11.00</b>	--	<b>200.00</b>	<b>1.60</b>	
A-23R	02/19/03	3.00	<b>6.10</b>	<b>12.00</b>	--	<b>120.00</b>	<0.1	
A-23R	06/10/03	1.80	<b>1.80</b>	<b>30.00</b>	--	<b>300.00</b>	<b>0.20</b>	
A-23R	09/16/03	1.40	<b>7.60</b>	<b>12.00</b>	--	<b>100.00</b>	<b>0.90</b>	
A-23R	11/19/03	1.50	<b>8.70</b>	<b>7.80</b>	--	<b>26.00</b>	<b>0.80</b>	
A-23R	02/25/04	1.70	<b>13.00</b>	<b>14.00</b>	--	<b>17.00</b>	<b>0.70</b>	
A-23R	05/12/04	4.70	<b>5.30</b>	<b>23.00</b>	--	<b>80.00</b>	<1.0	
A-23R	08/25/04	1.80	<b>10.00</b>	<b>11.00</b>	--	<b>31.00</b>	<b>0.34</b>	
A-23R	12/14/04	2.20	<b>12.00</b>	<b>9.80</b>	--	<b>6.40</b>	<b>0.25</b>	
A-23R	03/10/05	1.10	<b>7.30</b>	<b>30.00</b>	--	<b>220.00</b>	<b>0.20</b>	
A-23R	06/07/05	1.50	<b>5.60</b>	<b>28.00</b>	--	<b>200.00</b>	<b>1.90</b>	
A-23R	09/20/05	1.50	<b>2.60</b>	<b>34.00</b>	--	<b>270.00</b>	<0.10	
A-23R	12/14/05	0.80	<b>5.30</b>	<b>25.00</b>	--	<b>50.00</b>	<b>0.17</b>	
A-23R	03/15/06	0.80	<b>13.00</b>	<b>27.00</b>	--	<b>21.00</b>	<b>0.28</b>	
A-23R	06/08/06	0.70	<b>4.00</b>	<b>38.00</b>	--	<b>150.00</b>	<b>0.19</b>	
A-23R	09/12/06	1.40	<b>3.60</b>	<b>33.00</b>	--	<b>100.00</b>	<0.10	
A-23R	12/12/06	2.80	<b>16.00</b>	<b>24.00</b>	--	<b>4.20</b>	<b>0.31</b>	
A-23R	03/27/07	1.10	--	--	--	--	--	
A-23R	06/19/07	1.40	<b>3.00</b>	<b>32.00</b>	--	<b>180.00</b>	<b>0.11</b>	
A-23R	09/24/07	--	--	--	--	--	--	Not Sampled
A-23R	12/11/07	2.73	--	--	--	--	--	
A-23R	03/04/08	3.20	--	--	--	--	--	
A-23R	06/05/08	2.40	<b>2.60</b>	<b>44.00</b>	--	<b>440.00</b>	<0.10	
A-23R	12/05/08	0.33	--	--	--	--	--	
A-23R	03/04/09	0.35	--	--	--	--	--	
A-23R	06/02/09	0.60	<b>2.10</b>	<b>22.00</b>	--	<b>290.00</b>	<0.10	
A-23R	09/21/09	0.77	--	--	--	--	--	
A-23R	11/16/09	1.29	--	--	--	--	--	
A-23R	03/08/10	0.86	--	--	--	--	--	
A-23R	06/08/10	0.89	<b>1.10</b>	<b>39.00</b>	--	<b>450.00</b>	<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	<b>1.00</b>	<b>44.00</b>	--	<b>450.00</b>	<b>0.10</b>	
A-23R	08/29/11	0.55	--	--	--	--	--	
A-23R	12/02/11	1.15	--	--	--	--	--	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
A-23R	03/01/12	1.47	--	--	--	--	--	
A-23R	05/30/12	0.00	<0.010	<b>86.00</b>	--	<b>470.00</b>	<0.10	
A-27	02/14/02	6.70	<b>7.40</b>	<b>20.00</b>	--	<b>0.55</b>	<b>0.10</b>	
A-27	05/22/02	3.50	<b>9.10</b>	<b>27.00</b>	--	<b>1.60</b>	<0.1	
A-27	08/29/02	2.30	<b>7.50</b>	<b>24.00</b>	--	<b>0.29</b>	<b>0.20</b>	
A-27	11/06/02	0.70	<b>5.20</b>	<b>26.00</b>	--	<0.25	<b>0.20</b>	
A-27	02/19/03	3.20	<b>6.60</b>	<b>19.00</b>	--	<0.25	<0.1	
A-27	06/10/03	1.20	<b>10.00</b>	<b>19.00</b>	--	<b>0.77</b>	<b>0.10</b>	
A-27	09/16/03	1.00	<b>8.60</b>	<b>51.00</b>	--	<b>0.59</b>	<b>0.70</b>	
A-27	11/19/03	1.10	<b>8.90</b>	<b>19.00</b>	--	<b>0.33</b>	<0.1	
A-27	02/25/04	1.90	<b>12.00</b>	<b>27.00</b>	--	<0.25	<b>0.30</b>	
A-27	05/11/04	0.70	<b>8.40</b>	<b>25.00</b>	--	<0.50	<0.10	
A-27	08/25/04	1.68	<b>12.00</b>	<b>22.00</b>	--	<0.50	<b>0.13</b>	
A-27	12/14/04	1.32	<b>12.00</b>	<b>10.00</b>	--	<0.50	<b>0.12</b>	
A-27	03/10/05	1.62	<b>12.00</b>	<b>18.00</b>	--	<b>0.78</b>	<0.10	
A-27	06/07/05	1.00	<b>7.00</b>	<b>19.00</b>	--	<0.50	<b>0.30</b>	
A-27	09/20/05	3.10	<b>10.00</b>	<b>29.00</b>	--	<b>0.84</b>	<b>0.16</b>	
A-27	12/13/05	2.30	<b>16.00</b>	<b>24.00</b>	--	<0.50	<0.10	
A-27	03/15/06	2.30	<b>15.00</b>	<b>14.00</b>	--	<0.50	<b>0.16</b>	
A-27	06/08/06	1.20	<b>13.00</b>	<b>25.00</b>	--	<b>0.51</b>	<b>0.15</b>	
A-27	09/12/06	1.90	<b>12.00</b>	<b>19.00</b>	--	<0.50	<b>0.23</b>	
A-27	12/12/06	1.00	<b>13.00</b>	<b>24.00</b>	--	<0.50	<0.10	
A-27	03/27/07	1.40	--	--	--	--	--	
A-27	06/19/07	2.40	<b>11.00</b>	<b>7.50</b>	--	<1.0	<b>0.10</b>	
A-27	09/24/07	1.50	--	--	--	--	--	
A-27	12/11/07	1.50	--	--	--	--	--	
A-27	03/04/08	1.80	--	--	--	--	--	
A-27	06/04/08	2.00	<b>9.90</b>	<b>10.00</b>	--	<0.50	<b>0.13</b>	
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	<b>6.5</b>	<b>13</b>	--	<b>1.2</b>	<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	<b>3.90</b>	<b>12.00</b>	--	<b>2.10</b>	<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	<b>3.30</b>	<b>8.80</b>	--	<b>2.20</b>	<b>0.10</b>	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
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	<b>2.60</b>	<b>21.00</b>	--	<b>1.10</b>	<0.10	
A-28R	02/14/02	0.40	<b>8.80</b>	<b>59.00</b>	--	<b>1.20</b>	<b>0.30</b>	
A-28R	05/22/02	4.40	<b>3.40</b>	<b>42.00</b>	--	<b>28.00</b>	<b>0.30</b>	
A-28R	08/29/02	3.60	<b>6.20</b>	<b>45.00</b>	--	<b>0.73</b>	<b>0.30</b>	
A-28R	11/06/02	2.20	<b>5.90</b>	<b>46.00</b>	--	<b>0.57</b>	<0.1	
A-28R	02/19/03	3.00	<b>6.30</b>	<b>48.00</b>	--	<b>0.56</b>	<0.1	
A-28R	06/10/03	1.20	<b>6.10</b>	<b>42.00</b>	--	<0.25	<0.1	
A-28R	09/16/03	0.90	<b>10b</b>	<b>58.00</b>	--	<b>0.41</b>	<b>0.50</b>	
A-28R	11/19/03	1.20	<b>9.90</b>	<b>47.00</b>	--	<b>0.25</b>	<0.1	
A-28R	02/25/04	1.80	<b>9.60</b>	<b>46.00</b>	--	<0.25	<b>1.40</b>	
A-28R	05/12/04	1.90	<b>11.00</b>	<b>47.00</b>	--	<0.50	<0.10	
A-28R	08/25/04	0.50	<b>12.00</b>	<b>38.00</b>	--	--*b	--*b	
A-28R	12/14/04	1.72	<b>12.00</b>	<b>22.00</b>	--	<0.50	<b>0.12</b>	
A-28R	03/10/05	3.32	<b>14.00</b>	<b>42.00</b>	--	<0.50	<0.10	
A-28R	06/07/05	1.00	<b>13.00</b>	<b>35.00</b>	--	<0.50	<b>0.70</b>	
A-28R	09/20/05	--	--	--	--	--	--	Not Sampled
A-28R	12/13/05	0.89	<b>15.00</b>	<b>28.00</b>	--	<0.50	<b>0.13</b>	
A-28R	03/15/06	0.89	<b>15.00</b>	<b>45.00</b>	--	<b>1.30</b>	<0.10	
A-28R	06/08/06	0.80	<b>13.00</b>	<b>34.00</b>	--	<0.50	--	
A-28R	09/12/06	1.10	<b>16.00</b>	<b>35.00</b>	--	<0.50	<0.10	
A-28R	12/12/06	1.70	<b>13.00</b>	<b>25.00</b>	--	<0.50	<0.10	
A-28R	03/27/07	3.20	--	--	--	--	--	
A-28R	06/19/07	3.20	<b>12.00</b>	<b>32.00</b>	--	<b>2.50</b>	<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	<b>7.00</b>	<b>18.00</b>	--	<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	<b>2.30</b>	<b>15.00</b>	--	<b>2.80</b>	<b>0.18</b>	
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	<b>2.40</b>	<b>31.00</b>	--	<b>18.00</b>	<b>0.29</b>	
A-28R	09/10/10	3.81	--	--	--	--	--	
A-28R	11/16/10	0.79	--	--	--	--	--	
A-28R	03/02/11	0.00	--	--	--	--	--	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
A-28R	05/24/11	0.00	<b>3.60</b>	<b>39.00</b>	--	<b>1.60</b>	<b>0.13</b>	
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	<b>2.00</b>	<b>42.00</b>	--	<0.50	<b>0.11</b>	
MW-1	02/13/02	0.70	<b>4.20</b>	<b>35.00</b>	--	<b>30.00</b>	<0.1	
MW-1	05/21/02	3.90	<b>6.80</b>	<b>48.00</b>	--	<b>31.00</b>	<0.1	
MW-1	08/28/02	3.20	<b>4.00</b>	<b>12.00</b>	--	<b>1.20</b>	<b>0.20</b>	
MW-1	11/05/02	1.90	<b>3.60</b>	<b>85.00</b>	--	<b>0.99</b>	<b>1.30</b>	
MW-1	02/19/03	3.60	<b>4.90</b>	<b>16.00</b>	--	<b>11.00</b>	<b>0.10</b>	
MW-1	06/10/03	1.30	<b>7.60</b>	<b>28.00</b>	--	<b>6.40</b>	<0.1	
MW-1	09/16/03	2.40	<b>5.60</b>	<b>25.00</b>	--	<b>5.20</b>	<0.1	
MW-1	11/19/03	1.90	<b>3.80</b>	<b>15.00</b>	--	<b>0.50</b>	<0.1	
MW-1	02/25/04	2.20	<b>2.60</b>	<b>21.00</b>	--	<b>17.00</b>	<b>0.20</b>	
MW-1	05/11/04	1.80	<b>1.60</b>	<b>27.00</b>	--	<b>11.00</b>	<0.10	
MW-1	08/25/04	2.38	<b>1.60</b>	<b>18.00</b>	--	<b>2.80</b>	<0.10	
MW-1	12/15/04	3.20	<b>1.40</b>	<b>4.30</b>	--	<b>26.00</b>	<0.10	
MW-1	03/09/05	3.40	<b>1.50</b>	<b>19.00</b>	--	<b>9.80</b>	<0.10	
MW-1	06/08/05	3.00	<b>0.82</b>	<b>11.00</b>	--	<b>15.00</b>	<0.2	
MW-1	09/21/05	3.50	<b>0.68</b>	<b>51.00</b>	--	<b>52.00</b>	<0.10	
MW-1	12/14/05	2.20	<b>1.10</b>	<b>18.00</b>	--	<b>21.00</b>	<0.10	
MW-1	03/14/06	1.10	<b>0.16</b>	<b>20.00</b>	--	<b>21.00</b>	<0.10	
MW-1	06/07/06	1.80	<b>0.14</b>	<b>23.00</b>	--	<b>86.00</b>	<0.10	
MW-1	09/13/06	2.20	<b>2.50</b>	<b>24.00</b>	--	<b>15.00</b>	<0.10	
MW-1	12/13/06	2.60	<b>0.22</b>	<b>6.60</b>	--	<b>49.00</b>	<0.10	
MW-1	06/20/07	3.40	--	--	--	--	--	
MW-1	03/04/08	1.20	--	--	--	<b>26.00</b>	--	
MW-1	06/05/08	2.70	--	--	--	<b>41.00</b>	--	
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	02/13/02	0.40	<0.01	<b>0.60</b>	--	<b>15.00</b>	<b>0.10</b>	
MW-2	05/21/02	3.10	<0.01	<b>0.90</b>	--	<b>12.00</b>	<0.1	
MW-2	08/29/02	2.10	<b>0.69</b>	<b>1.60</b>	--	<b>9.80</b>	<0.1	
MW-2	11/05/02	1.90	<b>1.20</b>	<b>5.10</b>	--	<b>9.60</b>	<0.1	
MW-2	02/19/03	2.10	<b>0.031</b>	<b>1.60</b>	--	<b>55.00</b>	<0.1	
MW-2	06/10/03	1.40	<b>0.059</b>	<b>1.60</b>	--	<b>25.00</b>	<b>0.30</b>	
MW-2	09/16/03	1.40	<b>1.10</b>	<b>12.00</b>	--	<b>21.00</b>	<b>0.60</b>	
MW-2	11/19/03	6.40	<b>0.13</b>	<b>0.40</b>	--	<b>8.30</b>	<0.1	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-2	02/25/04	4.30	<b>0.079</b>	<b>0.75</b>	--	<b>17.00</b>	<b>0.20</b>	
MW-2	05/11/04	2.70	<b>0.24</b>	<b>0.18</b>	--	<b>25.00</b>	<0.10	
MW-2	08/25/04	2.02	<b>0.11</b>	<b>0.063</b>	--	<b>21.00</b>	<0.10	
MW-2	12/14/04	2.72	<b>0.093</b>	<0.050	--	<b>11.00</b>	<0.10	
MW-2	03/10/05	1.00	<b>0.23</b>	<b>0.32</b>	--	<b>31.00</b>	<0.10	
MW-2	06/07/05	1.00	<b>0.44</b>	<b>0.059</b>	--	<b>21.00</b>	<0.2	
MW-2	09/20/05	1.70	<b>0.033</b>	<0.050	--	<b>25.00</b>	<0.10	
MW-2	12/13/05	3.00	<b>0.71</b>	<b>1.60</b>	--	<b>4.50</b>	<0.10	
MW-2	03/15/06	1.80	<0.010	<0.050	--	<b>17.00</b>	<0.10	
MW-2	06/08/06	1.20	<b>0.013</b>	<0.050	--	<b>10.00</b>	<0.10	
MW-2	09/12/06	1.50	<b>0.49</b>	<0.050	--	<b>13.00</b>	<0.10	
MW-2	12/12/06	1.20	<b>0.018</b>	<b>0.068</b>	--	<b>14.00</b>	<0.10	
MW-2	06/19/07	1.80	--	--	--	--	--	
MW-2	03/04/08	3.20	--	--	--	<b>19.00</b>	--	
MW-2	06/04/08	1.90	--	--	--	<b>12.00</b>	--	
MW-2	06/02/09	4.27	--	--	--	--	--	
MW-2	06/08/10	1.71	--	--	--	--	--	
MW-2	05/23/11	3.30	--	--	--	--	<b>0.0050</b>	
MW-2	05/31/12	1.83	--	--	--	--	<b>0.0050</b>	
MW-3	02/13/02	0.30	<b>0.033</b>	<b>0.40</b>	--	<b>16.00</b>	<b>0.10</b>	
MW-3	05/20/02	4.10	<b>0.96</b>	<b>3.50</b>	--	<b>29.00</b>	<b>0.10</b>	
MW-3	08/28/02	2.60	<b>4.60</b>	<b>11.00</b>	--	<b>19.00</b>	<b>0.20</b>	
MW-3	11/06/02	2.90	<b>0.88</b>	<b>0.80</b>	--	<b>9.20</b>	<b>0.20</b>	
MW-3	02/19/03	8.60	<b>0.017</b>	<b>0.20</b>	--	<b>84.00</b>	<b>0.20</b>	
MW-3	06/11/03	6.54	<b>0.022</b>	<b>0.40</b>	--	<b>130.00</b>	<b>0.20</b>	
MW-3	09/17/03	6.50	<b>0.028</b>	<b>0.80</b>	--	<b>160.00</b>	<0.1	
MW-3	11/20/03	7.80	<0.01	<0.2	--	<b>66.00</b>	<b>0.20</b>	
MW-3	02/25/04	2.80	<0.01	<0.050	--	<b>35.00</b>	<b>0.20</b>	
MW-3	05/11/04	8.40	<0.010	<0.050	--	<b>59.00</b>	<0.10	
MW-3	08/25/04	1.80	<0.010	<0.050	--	<b>66.00</b>	<0.10	
MW-3	12/15/04	7.60	<b>0.059</b>	<0.050	--	<b>50.00</b>	<0.10	
MW-3	03/09/05	4.43	<b>1.80</b>	<0.050	--	<b>51.00</b>	<0.10	
MW-3	06/08/05	1.98	<b>3.30</b>	<0.050	--	<b>37.00</b>	<0.2	
MW-3	09/21/05	2.90	<b>4.30</b>	<b>0.064</b>	--	<b>47.00</b>	<0.10	
MW-3	12/14/05	1.80	<b>0.80</b>	<0.050	--	<b>72.00</b>	<0.10	
MW-3	03/14/06	3.10	<b>0.23</b>	<0.050	--	<b>22.00</b>	<0.10	
MW-3	06/07/06	1.80	<b>0.30</b>	<0.050	--	<b>21.00</b>	<0.10	
MW-3	09/13/06	2.60	<b>2.40</b>	<0.050	--	<b>30.00</b>	<0.10	
MW-3	12/13/06	0.80	<b>0.25</b>	<b>0.064</b>	--	<b>28.00</b>	<0.10	
MW-3	06/20/07	2.20	--	--	--	--	--	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-3	06/05/08	2.00	--	--	--	<b>15.00</b>	--	
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	02/14/02	0.60	<b>5.80</b>	<b>32.00</b>	--	<b>3.10</b>	<b>0.70</b>	
MW-4	05/21/02	3.90	<b>1.90</b>	<b>23.00</b>	--	<b>1.60</b>	<b>0.50</b>	
MW-4	08/28/02	1.00	<b>5.10</b>	<b>86.00</b>	--	<b>2.90</b>	--**	
MW-4	11/05/02	--	--	--	--	--	--	Not Sampled
MW-4	02/19/03	2.00	<b>1.80</b>	<b>120.00</b>	--	<b>270.00</b>	--**	
MW-4	06/10/03	0.90	<b>4.90</b>	<b>36.00</b>	--	<b>8.40</b>	<b>0.60</b>	
MW-4	09/16/03	--	--	--	--	--	--	Not Sampled
MW-4	11/19/03	1.40	<b>1.90</b>	<b>31.00</b>	--	<b>49.00</b>	<b>0.60</b>	
MW-4	02/25/04	2.20	<b>1.20</b>	<b>32.00</b>	--	<b>1.00</b>	<b>0.30</b>	
MW-4	05/12/04	0.89	<b>4.90</b>	<b>37.00</b>	--	<b>5.30</b>	<0.10	
MW-4	08/26/04	2.32	<b>1.40</b>	<b>26.00</b>	--	<b>6.40</b>	<b>0.42</b>	
MW-4	12/15/04	--	--	--	--	--	--	Not Sampled
MW-4	03/09/05	1.37	<b>1.00</b>	<b>31.00</b>	--	<b>110.00</b>	<b>0.33</b>	
MW-4	06/08/05	1.50	<b>1.60</b>	<b>46.00</b>	--	<b>11.00</b>	<b>0.50</b>	
MW-4	09/21/05	1.30	<b>7.00</b>	<b>54.00</b>	--	<b>0.52</b>	<b>23.00</b>	
MW-4	12/14/05	2.40	<b>6.60</b>	<b>19.00</b>	--	<b>33.00</b>	<b>0.38</b>	
MW-4	03/14/06	2.40	<b>4.20</b>	<b>11.00</b>	--	<b>1.90</b>	<b>0.53</b>	
MW-4	06/07/06	3.20	<b>7.10</b>	<b>8.30</b>	--	<0.50	<b>0.54</b>	
MW-4	09/13/06	2.80	<b>7.60</b>	<b>15.00</b>	--	<0.50	<b>0.85</b>	
MW-4	12/13/06	2.90	<b>2.30</b>	<b>8.70</b>	--	<b>31.00</b>	<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	02/13/02	2.70	<0.01	<0.1	--	<b>12.00</b>	<b>0.20</b>	
MW-5	05/21/02	3.80	<0.01	<b>0.20</b>	--	<b>7.40</b>	<b>0.10</b>	
MW-5	08/29/02	1.40	<b>0.17</b>	<b>0.30</b>	--	<b>11.00</b>	<b>0.20</b>	
MW-5	11/05/02	4.10	<b>6.40</b>	<b>13.00</b>	--	<b>250.00</b>	<b>0.30</b>	
MW-5	02/20/03	2.00	<b>0.073</b>	<0.2	--	<b>6.20</b>	<0.1	
MW-5	06/11/03	1.60	<b>2.50</b>	<b>0.60</b>	--	<b>8.20</b>	<b>0.10</b>	
MW-5	09/16/03	1.20	<b>4.70</b>	<b>3.10</b>	--	<b>5.60</b>	<b>0.10</b>	
MW-5	11/20/03	4.90	<0.01	<b>0.30</b>	--	<b>4.70</b>	<b>0.20</b>	
MW-5	02/24/04	3.10	<b>0.33</b>	<b>0.062</b>	--	<b>5.80</b>	<b>0.10</b>	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-5	05/11/04	1.90	<b>0.61</b>	<b>1.50</b>	--	<b>3.00</b>	<0.10	
MW-5	08/26/04	1.22	<0.010	<0.050	--	<b>7.60</b>	<0.10	
MW-5	12/15/04	12.19	<0.010	<0.050	--	<b>4.30</b>	<0.10	
MW-5	03/09/05	6.22	<b>0.020</b>	<0.050	--	<b>15.00</b>	<0.10	
MW-5	06/08/05	2.50	<0.010	<0.050	--	<b>11.00</b>	<0.2	
MW-5	09/21/05	1.90	<b>0.080</b>	<b>0.077</b>	--	<b>8.90</b>	<0.10	
MW-5	12/14/05	2.20	<0.010	<0.050	--	<b>9.80</b>	--*a	
MW-5	03/14/06	2.20	<0.010	<0.050	--	<b>3.20</b>	<0.10	
MW-5	06/07/06	2.00	<0.010	<0.050	--	<b>4.50</b>	<0.10	
MW-5	09/13/06	2.10	<b>0.34</b>	<0.050	--	<b>6.60</b>	<0.10	
MW-5	12/13/06	2.30	<0.010	<0.050	--	<b>3.80</b>	<0.10	
MW-5	06/20/07	--	--	--	--	--	--	Not Sampled
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	02/13/02	2.50	<b>2.60</b>	<b>2.40</b>	--	<b>26.00</b>	<b>0.20</b>	
MW-6	05/22/02	4.60	<b>1.20</b>	<b>6.00</b>	--	<b>22.00</b>	<b>0.10</b>	
MW-6	08/29/02	1.20	<b>0.72</b>	<b>4.10</b>	--	<b>11.00</b>	<b>0.10</b>	
MW-6	11/05/02	1.70	<b>1.70</b>	<b>10.00</b>	--	<b>5.60</b>	<b>0.70</b>	
MW-6	02/19/03	3.30	<b>1.20</b>	<b>7.30</b>	--	<b>62.00</b>	<b>0.10</b>	
MW-6	06/10/03	2.00	<b>0.87</b>	<b>5.90</b>	--	<b>17.00</b>	<b>0.20</b>	
MW-6	09/16/03	2.30	<b>1.60</b>	<b>41.00</b>	--	<b>2.90</b>	<b>1.00</b>	
MW-6	11/19/03	5.10	<b>1.70</b>	<b>5.40</b>	--	<b>19.00</b>	<0.1	
MW-6	02/25/04	2.40	<0.01	<b>0.49</b>	--	<b>24.00</b>	<0.1	
MW-6	05/11/04	1.20	<b>0.39</b>	<b>5.10</b>	--	<b>12.00</b>	<0.10	
MW-6	08/25/04	2.26	<b>0.59</b>	<b>4.90</b>	--	<b>8.70</b>	<b>0.18</b>	
MW-6	12/14/04	1.45	<b>2.80</b>	<b>2.50</b>	--	<b>9.90</b>	<0.10	
MW-6	03/10/05	0.70	<b>0.85</b>	<b>1.90</b>	--	<b>20.00</b>	<b>0.15</b>	
MW-6	06/07/05	3.80	<b>0.38</b>	<b>0.86</b>	--	<b>19.00</b>	<b>0.20</b>	
MW-6	09/20/05	0.90	<b>1.50</b>	<b>2.50</b>	--	<b>6.00</b>	<b>0.18</b>	
MW-6	12/13/05	1.00	<b>1.90</b>	<b>2.60</b>	--	<b>10.00</b>	<b>0.26</b>	
MW-6	03/15/06	1.00	<b>0.057</b>	<b>0.30</b>	--	<b>17.00</b>	<0.10	
MW-6	06/08/06	1.90	<b>0.22</b>	<b>5.90</b>	--	<b>7.30</b>	<b>0.39</b>	
MW-6	09/12/06	1.60	<b>0.98</b>	<b>2.50</b>	--	<b>3.10</b>	<b>0.33</b>	
MW-6	12/12/06	2.00	<b>0.032</b>	<b>1.60</b>	--	<b>49.00</b>	<0.10	
MW-6	03/27/07	2.30	--	--	--	--	--	
MW-6	06/19/07	1.40	<b>0.40</b>	<b>4.40</b>	--	<b>15.00</b>	<b>0.21</b>	
MW-6	09/24/07	3.40	--	--	--	--	--	





### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-7	03/27/07	1.90	--	--	--	--	--	
MW-7	06/20/07	1.00	<b>23.00</b>	<b>2.90</b>	--	<b>8.30</b>	<b>0.45</b>	
MW-7	09/24/07	2.60	--	--	--	--	--	
MW-7	12/11/07	3.22	--	--	--	--	--	
MW-7	03/04/08	1.30	--	--	--	<b>13.00</b>	--	
MW-7	06/04/08	1.30	<b>19.00</b>	<b>0.15</b>	--	<b>2.30</b>	<b>0.63</b>	
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	<b>25.00</b>	<b>2.80</b>	--	<b>21.00</b>	<b>0.42</b>	
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	<b>27.00</b>	<b>1.10</b>	--	<b>1.60</b>	<b>0.44</b>	
MW-7	09/09/10	0.25	--	--	--	<b>3.60</b>	--	
MW-7	11/15/10	0.47	--	--	--	--	--	
MW-7	03/01/11	0.00	--	--	--	--	--	
MW-7	05/24/11	0.00	<b>3.50</b>	<b>1.80</b>	--	<b>5.10</b>	<b>0.55</b>	
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	<b>14.00</b>	<b>1.50</b>	--	<b>2.40</b>	<b>0.70</b>	
MW-8	02/14/02	2.50	<b>0.24</b>	<b>0.20</b>	--	<b>5.50</b>	<b>0.20</b>	
MW-8	08/29/02	6.20	<b>0.90</b>	<b>2.30</b>	--	<b>3.70</b>	<b>0.20</b>	
MW-8	11/05/02	2.10	<b>5.50</b>	<b>3.40</b>	--	<b>7.50</b>	<b>0.10</b>	
MW-8	02/20/03	2.90	<b>0.56</b>	<b>0.50</b>	--	<b>7.60</b>	<b>0.30</b>	
MW-8	06/11/03	1.56	<b>18.00</b>	<b>0.30</b>	--	<0.25	<b>0.40</b>	
MW-8	09/17/03	2.50	<b>11.00</b>	<b>6.10</b>	--	<b>6.70</b>	<b>0.40</b>	
MW-8	11/20/03	1.70	<0.010	<0.2	--	<b>11.00</b>	<b>0.10</b>	
MW-8	02/26/04	2.30	<0.01	<b>0.57</b>	--	<b>4.40</b>	<b>0.20</b>	
MW-8	05/11/04	3.10	<b>0.19</b>	<b>0.12</b>	--	<b>5.30</b>	<0.10	
MW-8	08/26/04	3.32	<b>0.36</b>	<0.050	--	<b>11.00</b>	<0.10	
MW-8	12/15/04	2.30	<0.010	<0.050	--	<b>15.00</b>	<0.10	
MW-8	03/09/05	2.22	<0.010	<0.050	--	<b>7.30</b>	<0.10	
MW-8	06/08/05	6.50	<b>0.018</b>	<0.050	--	<b>7.40</b>	<0.2	
MW-8	09/21/05	2.10	<b>4.40</b>	<b>0.51</b>	--	<b>11.00</b>	<0.10	
MW-8	12/14/05	2.50	<b>4.00</b>	<0.050	--	<b>11.00</b>	<0.10	
MW-8	03/14/06	2.50	<0.010	<0.050	--	<b>6.40</b>	<0.10	
MW-8	06/07/06	1.30	<b>0.53</b>	<0.050	--	<b>6.00</b>	<0.10	
MW-8	09/13/06	1.60	<b>7.10</b>	<b>0.068</b>	--	<b>5.00</b>	<0.10	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-8	12/13/06	3.10	<0.010	<0.050	--	<b>41.00</b>	<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	<b>6.60</b>	<b>15.00</b>	--	<b>2.00</b>	<b>0.70</b>	
MW-9	09/17/03	2.10	<b>9.80</b>	<b>19.00</b>	--	<b>1.50</b>	<b>0.70</b>	
MW-9	11/20/03	1.60	<b>2.20</b>	<b>14.00</b>	--	<b>66.00</b>	<b>0.30</b>	
MW-9	02/26/04	1.10	<b>15.00</b>	<b>12.00</b>	--	<b>8.10</b>	<b>0.80</b>	
MW-9	05/11/04	0.90	<b>4.10</b>	<b>0.25</b>	--	<b>0.62</b>	<b>0.12</b>	
MW-9	08/26/04	1.80	<b>8.20</b>	<b>15.00</b>	--	<b>1.00</b>	<b>0.41</b>	
MW-9	12/15/04	1.76	<b>5.30</b>	<b>29.00</b>	--	<b>180.00</b>	<0.10	
MW-9	03/09/05	4.70	<b>4.30</b>	<b>7.20</b>	--	<b>4.40</b>	<b>0.30</b>	
MW-9	06/08/05	4.50	<b>6.50</b>	<b>8.40</b>	--	<b>6.10</b>	<b>0.30</b>	
MW-9	09/21/05	1.70	<b>11.00</b>	<b>14.00</b>	--	<b>1.90</b>	<b>0.21</b>	
MW-9	12/14/05	3.30	<b>10.00</b>	<b>9.10</b>	--	<b>17.00</b>	<b>0.11</b>	
MW-9	03/14/06	3.30	<b>12.00</b>	<b>3.40</b>	--	<b>1.40</b>	<b>0.51</b>	
MW-9	06/07/06	0.90	<b>4.60</b>	<b>5.60</b>	--	<b>0.94</b>	<b>0.13</b>	
MW-9	09/13/06	1.90	<b>7.40</b>	<b>7.50</b>	--	<0.50	<0.10	
MW-9	12/13/06	2.40	<b>0.72</b>	<b>3.60</b>	--	<b>12.00</b>	<b>0.19</b>	
MW-9	03/27/07	2.90	--	--	--	--	--	
MW-9	06/20/07	2.90	<b>3.50</b>	<b>6.00</b>	--	<0.50	<b>0.42</b>	
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	<b>3.50</b>	<b>7.90</b>	--	<b>0.80</b>	<b>0.40</b>	
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	<b>0.57</b>	<b>1.50</b>	--	<b>10.00</b>	<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	<b>7.50</b>	<b>2.90</b>	--	<b>4.80</b>	<b>0.49</b>	
MW-9	09/09/10	0.37	--	--	--	<b>2.00</b>	--	
MW-9	11/15/10	0.39	--	--	--	--	--	
MW-9	03/01/11	0.00	--	--	--	--	--	
MW-9	05/24/11	0.00	<b>18.00</b>	<0.050	--	<b>3.60</b>	<b>0.10</b>	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
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	<b>0.13</b>	<0.050	--	<b>5.30</b>	<0.10	
MW-12R	06/01/09	0.36	--	--	--	--	--	
MW-12R	06/08/10	0.19	--	--	--	--	--	
MW-12R	05/23/11	0.55	--	--	--	--	<b>0.0050</b>	
MW-12R	06/01/12	0.00	--	--	--	--	<b>0.0050</b>	
MW-13R	06/01/09	0.49	--	--	--	--	--	
MW-13R	06/08/10	0.00	--	--	--	--	--	
MW-13R	05/23/11	0.18	--	--	--	--	<b>0.0050</b>	
MW-13R	Destroyed during construction activities							
MW-14	02/13/02	1.40	<b>2.80</b>	<b>22.00</b>	--	<b>21.00</b>	<b>0.30</b>	
MW-14	05/21/02	4.00	<b>6.20</b>	<b>22.00</b>	--	<b>11.00</b>	<b>0.60</b>	
MW-14	08/29/02	2.20	<b>5.90</b>	<b>20.00</b>	--	<b>52.00</b>	<b>0.70</b>	
MW-14	11/05/02	2.40	<b>11.00</b>	<b>23.00</b>	--	<b>39.00</b>	<b>0.80</b>	
MW-14	02/20/03	1.90	<b>3.50</b>	<b>20.00</b>	--	<b>35.00</b>	<b>0.80</b>	
MW-14	06/11/03	1.50	<b>2.90</b>	<b>19.00</b>	--	<b>4.30</b>	<b>0.40</b>	
MW-14	09/16/03	1.30	<b>0.86</b>	<b>15.00</b>	--	<b>0.89</b>	<b>0.50</b>	
MW-14	11/20/03	3.70	<b>0.57</b>	<b>4.90</b>	--	<b>31.00</b>	<0.1	
MW-14	02/24/04	4.30	<b>2.40</b>	<b>19.00</b>	--	<b>0.60</b>	<b>0.60</b>	
MW-14	05/11/04	0.10	<b>2.30</b>	<b>19.00</b>	--	<0.50	<0.10	
MW-14	08/26/04	1.01	<b>2.90</b>	<b>13.00</b>	--	<b>47.00</b>	<b>0.38</b>	
MW-14	12/15/04	2.88	<b>4.50</b>	<b>0.13</b>	--	<b>110.00</b>	<0.10	
MW-14	03/09/05	2.99	<b>6.80</b>	<b>12.00</b>	--	<b>41.00</b>	<b>0.30</b>	
MW-14	06/08/05	2.00	<b>4.30</b>	<b>15.00</b>	--	<b>18.00</b>	<b>0.40</b>	
MW-14	09/21/05	2.00	<b>7.60</b>	<b>19.00</b>	--	<b>8.20</b>	<b>0.36</b>	
MW-14	12/14/05	2.10	<b>8.90</b>	<b>9.50</b>	--	<b>21.00</b>	<0.10	
MW-14	03/14/06	2.10	<b>1.50</b>	<b>7.90</b>	--	<b>33.00</b>	<b>0.12</b>	
MW-14	06/07/06	1.50	<b>1.50</b>	<b>11.00</b>	--	<b>16.00</b>	<b>1.10</b>	
MW-14	09/13/06	1.80	<b>6.80</b>	<b>14.00</b>	--	<b>1.70</b>	<b>0.22</b>	
MW-14	12/13/06	2.20	<b>2.20</b>	<b>5.80</b>	--	<b>25.00</b>	<0.10	
MW-14	03/27/07	2.70	--	--	--	--	--	
MW-14	06/20/07	3.40	<b>2.90</b>	<b>7.50</b>	--	<b>4.90</b>	<b>0.79</b>	
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	<b>2.00</b>	<b>3.40</b>	--	<b>8.90</b>	<b>0.58</b>	
MW-14	09/08/08	0.69	--	--	--	--	--	
MW-14	12/05/08	0.45	--	--	--	--	--	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-14	03/04/09	0.81	--	--	--	--	--	
MW-14	06/02/09	0.89	<b>0.15</b>	<b>0.12</b>	--	<b>34.00</b>	<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	<b>0.72</b>	<b>0.18</b>	--	<b>8.50</b>	<0.10	
MW-14	09/10/10	0.32	--	--	--	--	--	
MW-14	11/15/10	0.35	--	--	--	--	--	
MW-14	03/01/11	0.020	--	--	--	--	--	
MW-14	05/24/11	0.00	<b>0.18</b>	<b>0.10</b>	--	<b>14.00</b>	<b>0.10</b>	
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	<b>0.086</b>	<0.050	--	<b>10.00</b>	<0.10	
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	--	--	--	--	--	

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-19	02/13/02	3.50	<b>13.00</b>	<b>22.00</b>	--	<b>0.43</b>	<b>0.60</b>	
MW-19	05/21/02	3.20	<b>15.00</b>	<b>13.00</b>	--	<b>0.39</b>	<b>0.50</b>	
MW-19	08/29/02	0.90	<b>13.00</b>	<b>19.00</b>	--	<0.25	<b>0.60</b>	
MW-19	11/05/02	2.70	<b>10.00</b>	<b>19.00</b>	--	<0.25	<b>0.40</b>	
MW-19	02/20/03	3.20	<b>13.00</b>	<b>43.00</b>	--	<b>23.00</b>	<b>0.50</b>	
MW-19	06/11/03	0.50	<b>16.00</b>	<b>37.00</b>	--	<b>11.00</b>	<b>0.40</b>	
MW-19	09/16/03	1.40	<b>18.00</b>	<b>30.00</b>	--	<b>5.20</b>	<b>0.70</b>	
MW-19	11/20/03	4.80	<b>18.00</b>	<b>49.00</b>	--	<b>10.00</b>	<b>0.50</b>	
MW-19	02/24/04	2.10	<b>20.00</b>	<b>39.00</b>	--	<b>1.80</b>	<b>0.60</b>	
MW-19	05/11/04	0.60	<b>17.00</b>	<b>30.00</b>	--	<b>0.98</b>	<b>0.24</b>	
MW-19	08/26/04	2.83	<b>15.00</b>	<b>15.00</b>	--	<0.50	<b>0.20</b>	
MW-19	12/15/04	3.89	<b>21.00</b>	<b>44.00</b>	--	<b>31.00</b>	<b>0.22</b>	
MW-19	03/09/05	3.42	<b>22.00</b>	<b>25.00</b>	--	<b>5.30</b>	<b>0.26</b>	
MW-19	06/08/05	0.89	<b>15.00</b>	<b>18.00</b>	--	<b>12.00</b>	<b>0.60</b>	
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	1.70	<b>18.00</b>	<b>7.90</b>	--	<0.50	<b>0.55</b>	
MW-19	09/13/06	2.10	<b>19.00</b>	<b>10.00</b>	--	<0.50	<b>1.30</b>	
MW-19	12/13/06	3.90	<b>19.00</b>	<b>30.00</b>	--	<b>16.00</b>	<b>0.43</b>	
MW-19	03/27/07	2.50	--	--	--	--	--	
MW-19	06/20/07	1.90	<b>23.00</b>	<b>9.30</b>	--	<0.50	<b>0.19</b>	
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	<b>21.00</b>	<b>7.00</b>	--	<b>0.86</b>	<b>0.46</b>	
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	<b>28.00</b>	<b>6.30</b>	--	<0.50	<b>0.18</b>	
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	<b>27.00</b>	<b>10.00</b>	--	<0.50	<0.10	
MW-19	09/09/10	0.41	--	--	--	<b>39.00</b>	--	
MW-19	11/15/10	0.35	--	--	--	--	--	
MW-19	03/01/11	0.00	--	--	--	--	--	
MW-19	05/24/11	0.69	<b>28.00</b>	<b>1.70</b>	--	<b>3.80</b>	<b>0.11</b>	
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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		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	<b>13.00</b>	<b>10.00</b>	--	<0.50	<b>0.21</b>	
MW-20	02/13/02	0.40	<b>8</b>	<b>6.6</b>	--	<b>9.70</b>	<0.1	
MW-20	05/20/02	2.30	<b>16</b>	<b>4.1</b>	--	<b>7.70</b>	<b>0.1</b>	
MW-20	08/29/02	2.60	<b>12</b>	<b>5.4</b>	--	<b>7.90</b>	<b>0.3</b>	
MW-20	11/06/02	5.70	<b>0.10</b>	<b>4.2</b>	--	<b>610.00</b>	<b>0.3</b>	
MW-20	06/11/03	15.00	<0.01	<b>7.30</b>	--	<b>2200.00</b>	<b>0.2</b>	
MW-20	09/17/03	14.00	<0.010	<b>2.00</b>	--	<b>1800.00</b>	<b>0.5</b>	
MW-20	11/20/03	13.00	<b>0.15</b>	<b>1.70</b>	--	<b>1900.00</b>	<0.1	
MW-20	02/25/04	14.00	<b>0.026</b>	<b>0.34</b>	--	<b>2100.00</b>	--**	
MW-20	05/11/04	7.50	<b>0.048</b>	<b>0.29</b>	--	<b>2100.00</b>	<0.10	
MW-20	08/26/04	2.00	<b>16.00</b>	<b>140.00</b>	--	<b>970.00</b>	<0.10	
MW-20	12/15/04	3.34	<b>0.71</b>	<b>27.00</b>	--	<b>550.00</b>	<b>0.28</b>	
MW-20	03/09/05	2.82	<b>0.25</b>	<b>18.00</b>	--	<b>470.00</b>	<0.10	
MW-20	06/08/05	2.50	<b>10.00</b>	<b>18.00</b>	--	<b>480.00</b>	<b>0.20</b>	
MW-20	12/14/05	3.20	<b>0.28</b>	<b>15.00</b>	--	<b>250.00</b>	<b>0.21</b>	
MW-20	03/14/06	3.20	<b>0.98</b>	<b>5.50</b>	--	<b>56.00</b>	<0.10	
MW-20	06/07/06	1.00	<b>15.00</b>	<b>7.40</b>	--	<b>68.00</b>	<0.10	
MW-20	09/13/06	2.50	<b>23.00</b>	<b>17.00</b>	--	<b>110.00</b>	<0.10	
MW-20	12/13/06	2.30	<b>3.3</b>	<b>2.30</b>	--	<b>69.00</b>	<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	<b>0.061</b>	<b>1.9</b>	--	<b>1400</b>	<0.1	
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	0.90	<b>0.013</b>	<b>2.80</b>	--	<b>17.00</b>	<b>0.5</b>	
MW-21	02/26/04	1.00	<b>12.00</b>	<b>17.00</b>	--	<b>12.00</b>	<b>0.9</b>	
MW-21	05/11/04	1.80	<b>4.70</b>	<b>12.00</b>	--	<b>0.92</b>	<0.10	
MW-21	08/26/04	2.80	<b>2.00</b>	<b>1.80</b>	--	<0.50	<b>0.13</b>	
MW-21	12/15/04	--	--	--	--	--	--	Not Sampled
MW-21	03/09/05	0.99	<b>4.30</b>	<b>9.80</b>	--	<0.50	<0.10	
MW-21	06/08/05	3.50	<b>1.80</b>	<b>11.00</b>	--	<b>1.20</b>	<b>0.5</b>	
MW-21	09/21/05	2.40	<b>15.00</b>	<b>7.20</b>	--	<0.50	<b>0.14</b>	
MW-21	12/14/05	1.20	<b>18.00</b>	<b>0.19</b>	--	<b>5.30</b>	<b>0.18</b>	
MW-21	03/14/06	1.20	<0.010	<b>0.10</b>	--	<b>3.20</b>	<0.10	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-21	06/07/06	1.20	<b>1.70</b>	<b>9.90</b>	--	<b>2.30</b>	<b>0.37</b>	
MW-21	09/13/06	--	--	--	--	--	--	Not Sampled
MW-21	12/13/06	--	--	--	--	--	--	Not Sampled
MW-21	03/27/07	0.90	--	--	--	--	--	
MW-21	06/20/07	2.10	<b>9.10</b>	<b>4.20</b>	--	<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	<b>14.00</b>	<b>7.40</b>	--	<0.50	<b>0.13</b>	
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	<b>7.10</b>	<b>4.00</b>	--	<b>3.90</b>	<b>0.23</b>	
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	<b>0.85</b>	<b>0.11</b>	--	<b>4.30</b>	<b>0.10</b>	
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	<b>0.24</b>	<b>0.092</b>	--	<b>5.70</b>	<b>0.22</b>	
MW-22	02/13/02	6.70	<b>0.3</b>	<b>10</b>	--	<b>6.40</b>	<0.1	
MW-22	05/21/02	4.40	<b>1.2</b>	<b>9.1</b>	--	<b>1.70</b>	<b>0.2</b>	
MW-22	08/29/02	0.70	<b>2.4</b>	<b>9.1</b>	--	<b>2.20</b>	<b>0.2</b>	
MW-22	11/05/02	1.60	<b>1.1</b>	<b>5.6</b>	--	<b>99.00</b>	<b>0.2</b>	
MW-22	02/19/03	2.10	<0.01	<b>4.7</b>	--	<b>120</b>	<b>0.1</b>	
MW-22	06/10/03	1.30	<b>0.087</b>	<b>5.00</b>	--	<b>110.00</b>	<b>0.5</b>	
MW-22	09/16/03	2.40	<b>2.0</b>	<b>55.00</b>	--	<b>230.00</b>	<b>1.6</b>	
MW-22	11/19/03	6.60	<b>0.056</b>	<b>2.30</b>	--	<b>100.00</b>	<b>0.4</b>	
MW-22	02/25/04	8.20	<0.01	<b>2.40</b>	--	<b>43.00</b>	<b>0.4</b>	
MW-22	05/11/04	5.10	<0.010	<b>0.48</b>	--	<b>36.00</b>	<0.10	
MW-22	08/25/04	2.72	<b>1.4</b>	<b>2.70</b>	--	<b>59.00</b>	--*b	
MW-22	12/14/04	1.35	<b>3.2</b>	<b>5.50</b>	--	<b>65.00</b>	<0.10	
MW-22	03/10/05	1.40	<b>0.38</b>	<b>9.20</b>	--	<b>23.00</b>	<b>0.61</b>	
MW-22	06/07/05	4.20	<b>0.53</b>	<b>6.30</b>	--	<b>25.00</b>	<b>0.7</b>	
MW-22	09/20/05	3.70	<b>0.86</b>	<b>27.00</b>	--	<b>24.00</b>	<b>0.16</b>	
MW-22	12/13/05	2.10	<b>3.8</b>	<b>12.00</b>	--	<b>25.00</b>	<b>3.0</b>	
MW-22	03/15/06	2.10	<b>0.033</b>	<b>4.40</b>	--	<b>14.00</b>	<0.10	



### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-22	06/08/06	2.60	<b>0.62</b>	<b>4.50</b>	--	<b>17.00</b>	<b>0.19</b>	
MW-22	09/12/06	2.60	<b>2.2</b>	<b>4.50</b>	--	<b>19.00</b>	<b>0.11</b>	
MW-22	12/12/06	0.90	<b>0.010</b>	<b>2.20</b>	--	<b>7.3</b>	<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	<b>12</b>	<b>15</b>	--	<b>13.00</b>	<b>0.4</b>	
MW-23	05/12/04	1.80	<b>13</b>	<b>19</b>	--	<b>3.60</b>	<b>0.16</b>	
MW-23	08/26/04	1.41	<b>10</b>	<b>14</b>	--	<b>21.00</b>	<b>0.11</b>	
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	2.30	<b>16</b>	<b>1.2</b>	--	<0.50	<b>0.25</b>	
MW-23	03/15/06	2.30	<b>17</b>	<b>20</b>	--	<0.50	<b>0.23</b>	
MW-23	06/08/06	1.10	<b>18</b>	<b>18</b>	--	<0.50	<b>0.20</b>	
MW-23	09/12/06	--	--	--	--	--	--	Not Sampled
MW-23	12/12/06	1.90	<b>27</b>	<b>27</b>	--	<0.50	<b>0.24</b>	
MW-23	03/27/07	2.40	--	--	--	--	--	
MW-23	06/19/07	1.20	<b>13</b>	<b>18</b>	--	<1.0	<b>0.19</b>	
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	<b>12</b>	<b>63</b>	--	<b>1.0</b>	<b>0.48</b>	
MW-23	12/04/08	0.53	--	--	--	--	--	
MW-23	03/04/09	0.80	--	--	--	--	--	
MW-23	06/02/09	0.42	<b>9.5</b>	<b>17</b>	--	<b>57</b>	<b>0.92</b>	
MW-23	09/21/09	0.60	--	--	--	--	--	
MW-23	11/16/09	0.43	--	--	--	--	--	
MW-23	03/08/10	0.26	--	--	--	--	--	
MW-23	06/08/10	0.15	<b>11.00</b>	<b>22.00</b>	--	<b>4.20</b>	<b>0.52</b>	
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	<b>14.00</b>	<b>31.00</b>	--	<b>0.80</b>	<b>0.10</b>	
MW-23	08/30/11	1.10	--	--	--	--	--	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-23	12/02/11	0.89	--	--	--	--	--	
MW-23	03/02/12	0.65	--	--	--	--	--	
MW-23	05/30/12	0.00	<b>5.50</b>	<b>41.00</b>	--	<b>74.00</b>	<b>0.38</b>	
MW-24	02/25/04	1.70	<b>15</b>	<b>22</b>	--	<b>6.40</b>	<b>0.3</b>	
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	--	<b>25</b>	<b>46</b>	--	<0.50	<b>0.23</b>	
MW-24	06/08/06	1.60	<b>7.6</b>	<b>9.1</b>	--	<0.50	<b>0.42</b>	
MW-24	09/12/06	--	--	--	--	--	--	Not Sampled
MW-24	12/12/06	2.30	<b>16</b>	<b>3.2</b>	--	<0.50	<b>0.31</b>	
MW-24	03/27/07	2.20	--	--	--	--	--	
MW-24	06/19/07	1.40	<b>15</b>	<b>68</b>	--	<0.50	<b>1.7</b>	
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	<b>15</b>	<b>17</b>	--	<b>7.4</b>	<b>0.85</b>	
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	<b>12</b>	<b>37</b>	--	<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	<b>12.00</b>	<b>35.00</b>	--	<0.50	<b>0.23</b>	
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	<b>12.00</b>	<b>26.00</b>	--	<b>0.78</b>	<b>0.11</b>	
MW-24	08/30/11	0.39	--	--	--	--	--	
MW-24	12/02/11	0.48	--	--	--	--	--	
MW-24	03/02/12	1.52	--	--	--	--	--	
MW-24	05/30/12	0.00	<b>7.50</b>	<b>31.00</b>	--	<b>2.40</b>	<b>0.15</b>	
MW-25	02/26/04	1.30	<b>1.5</b>	<b>27</b>	--	<b>120.00</b>	<b>0.9</b>	
MW-25	05/12/04	1.90	<b>2.0</b>	<b>12</b>	--	<b>140.00</b>	<b>0.10</b>	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-25	08/26/04	1.78	1.7	5.4	--	380.00	0.13	
MW-25	12/14/04	2.10	0.40	2.7	--	370.00	<0.10	
MW-25	03/10/05	2.10	2.0	3.5	--	180.00	0.21	
MW-25	06/07/05	1.75	2.2	4.7	--	160.00	0.7	
MW-25	09/20/05	1.30	0.91	1.8	--	270.00	0.12	
MW-25	12/13/05	2.50	1.8	1.8	--	140.00	0.23	
MW-25	03/15/06	2.50	0.92	4.6	--	210.00	0.38	
MW-25	06/08/06	1.20	1.9	6.5	--	120.00	0.13	
MW-25	09/12/06	1.80	0.84	5.9	--	250.00	<0.10	
MW-25	12/12/06	2.10	1.6	15	--	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	--	14.00	0.32	
SH-02	Destroyed during construction activities							
SH-02R	02/13/02	1.20	<0.01	0.60	--	9.70	0.20	
SH-02R	05/21/02	4.50	3.50	8.10	--	6.70	<0.1	
SH-02R	08/28/02	1.50	4.90	17.00	--	3.80	<0.1	
SH-02R	11/05/02	2.10	6.10	20.00	--	13.00	<0.1	
SH-02R	02/19/03	2.50	0.29	2.40	--	10.00	0.60	
SH-02R	06/10/03	1.30	1.40	5.10	--	6.80	0.30	
SH-02R	09/16/03	1.90	5.20	19.00	--	5.10	0.40	
SH-02R	11/19/03	1.10	1.50	4.60	--	7.10	0.20	
SH-02R	02/25/04	3.40	5.00	14.00	--	5.20	0.40	
SH-02R	05/12/04	2.00	3.20	7.40	--	4.40	<0.10	
SH-02R	08/26/04	2.24	2.10	3.80	--	5.80	<0.10	
SH-02R	12/15/04	1.98	0.092	0.055	--	100.00	<0.10	
SH-02R	03/09/05	1.59	0.38	1.50	--	380.00	<0.10	
SH-02R	06/08/05	1.00	1.20	0.11	--	110.00	<0.2	
SH-02R	09/21/05	1.50	4.40	0.72	--	31.00	<0.10	
SH-02R	12/14/05	0.70	2.20	0.28	--	11.00	<0.10	
SH-02R	03/14/06	0.70	0.42	1.40	--	25.00	<0.10	
SH-02R	06/07/06	0.90	3.10	4.40	--	20.00	<0.10	
SH-02R	09/13/06	1.70	3.90	5.50	--	24.00	<0.10	
SH-02R	12/13/06	0.90	0.38	1.30	--	10.00	<0.10	
SH-02R	06/20/07	2.00	--	--	--	--	--	
SH-02R	06/05/08	3.10	--	--	--	--	--	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
SH-02R	06/02/09	0.25	--	--	--	--	--	
SH-02R	06/08/10	0.24	--	--	--	--	--	
SH-02R	05/23/11	0.41	--	--	--	--	<b>0.0050</b>	
SH-02R	06/01/12	0.00	--	--	--	--	<b>0.0050</b>	
SH-05	12/20/00	--	<b>0.010</b>	<b>1.80</b>	--	<b>6.00</b>	<0.01	
SH-05		Destroyed during construction activities						
SH-05R	05/21/02	3.90	<b>1.50</b>	<b>10.00</b>	--	<b>16.00</b>	<b>0.30</b>	
SH-05R	08/28/02	1.40	<b>1.00</b>	<b>11.00</b>	--	<b>1.40</b>	<b>0.50</b>	
SH-05R	11/05/02	1.50	<b>1.20</b>	<b>17.00</b>	--	<b>6.30</b>	<0.1	
SH-05R	02/19/03	2.60	<b>2.90</b>	<b>32.00</b>	--	<b>28.00</b>	<0.1	
SH-05R	06/10/03	1.40	<b>1.50</b>	<b>33.00</b>	--	<b>2.80</b>	<b>0.60</b>	
SH-05R	09/16/03	1.20	<b>1.60</b>	<b>41.00</b>	--	<b>0.46</b>	<b>0.90</b>	
SH-05R	11/19/03	3.10	<b>1.60</b>	<b>36.00</b>	--	<b>71.00</b>	<b>0.50</b>	
SH-05R	02/25/04	2.50	<b>0.56</b>	<b>0.087</b>	--	<b>120.00</b>	<b>0.20</b>	
SH-05R	05/12/04	1.12	<b>2.10</b>	<b>16.00</b>	--	<b>4.60</b>	<0.10	
SH-05R	08/26/04	1.96	<b>2.00</b>	<b>6.40</b>	--	<b>0.63</b>	<0.10	
SH-05R	12/15/04	2.80	<b>3.70</b>	<b>26.00</b>	--	<b>26.00</b>	<0.10	
SH-05R	03/09/05	2.56	<b>3.40</b>	<b>2.00</b>	--	<b>7.50</b>	<0.10	
SH-05R	06/08/05	2.50	<b>3.80</b>	<b>19.00</b>	--	<b>30.00</b>	<0.2	
SH-05R	09/21/05	0.80	<b>3.10</b>	<b>9.10</b>	--	<0.50	<0.10	
SH-05R	12/14/05	2.30	<b>5.40</b>	<b>23.00</b>	--	<b>16.00</b>	<0.10	
SH-05R	03/14/06	2.30	<b>0.11</b>	<b>0.087</b>	--	<b>35.00</b>	<0.10	
SH-05R	06/07/06	1.20	<b>1.90</b>	<b>8.40</b>	--	<b>21.00</b>	<0.10	
SH-05R	09/13/06	1.40	<b>2.20</b>	<b>7.40</b>	--	<0.50	<0.10	
SH-05R	12/13/06	2.70	<b>0.14</b>	<b>0.11</b>	--	<b>100.00</b>	<0.10	
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	--	--	--	--	<b>0.0050</b>	
MW-07R	02/13/02	3.00	<b>0.078</b>	<b>5.00</b>	--	<b>8.30</b>	<b>0.20</b>	
MW-07R	05/21/02	3.50	<b>0.22</b>	<b>3.50</b>	--	<b>3.80</b>	<b>0.20</b>	
MW-07R	08/28/02	1.60	<b>0.17</b>	<b>6.90</b>	--	<b>9.00</b>	<b>0.10</b>	
MW-07R	11/05/02	1.60	<b>0.16</b>	<b>12.00</b>	--	<b>2.70</b>	<0.1	
MW-07R	02/19/03	--	--	--	--	--	--	Not Sampled
MW-07R	06/10/03	--	--	--	--	--	--	Not Sampled
MW-07R	09/16/03	1.40	<b>0.26</b>	<b>26.00</b>	--	<b>9.10</b>	<b>1.60</b>	
MW-07R	11/19/03	2.20	<b>0.017</b>	<b>4.90</b>	--	<b>14.00</b>	<b>0.30</b>	
MW-07R	02/25/04	2.10	<0.01	<b>1.80</b>	--	<b>5.70</b>	<b>0.30</b>	
MW-07R	05/12/04	2.49	<0.010	<b>2.20</b>	--	<b>3.40</b>	<0.10	

### Table 3

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

Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-07R	08/26/04	2.05	<b>0.011</b>	<b>0.12</b>	--	<b>12.00</b>	<0.10	
MW-07R	12/15/04	2.00	<b>0.034</b>	<b>1.40</b>	--	<b>10.00</b>	<0.10	
MW-07R	03/09/05	2.15	<b>0.030</b>	<b>4.20</b>	--	<b>120.00</b>	<0.10	
MW-07R	06/08/05	1.98	<0.010	<b>0.25</b>	--	<b>5.70</b>	<0.2	
MW-07R	09/21/05	2.80	<b>0.13</b>	<0.050	--	<b>15.00</b>	<0.10	
MW-07R	12/14/05	1.50	<0.010	<0.050	--	<b>5.70</b>	<0.10	
MW-07R	03/14/06	1.50	<b>0.23</b>	<b>2.30</b>	--	<b>8.90</b>	<0.10	
MW-07R	06/07/06	2.20	<0.010	<b>0.28</b>	--	<b>3.90</b>	<0.10	
MW-07R	09/13/06	1.20	<b>0.26</b>	<b>3.40</b>	--	<b>8.50</b>	<0.10	
MW-07R	12/13/06	1.90	<0.010	<0.050	--	<b>23.00</b>	<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	--	--	--	--	<b>0.0050</b>	
MW-07R	06/01/12	1.03	--	--	--	--	<b>0.0050</b>	
TMW-B1	06/09/10	1.06	--	--	--	<b>3.60</b>	--	
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	--	--	--	--	--	

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

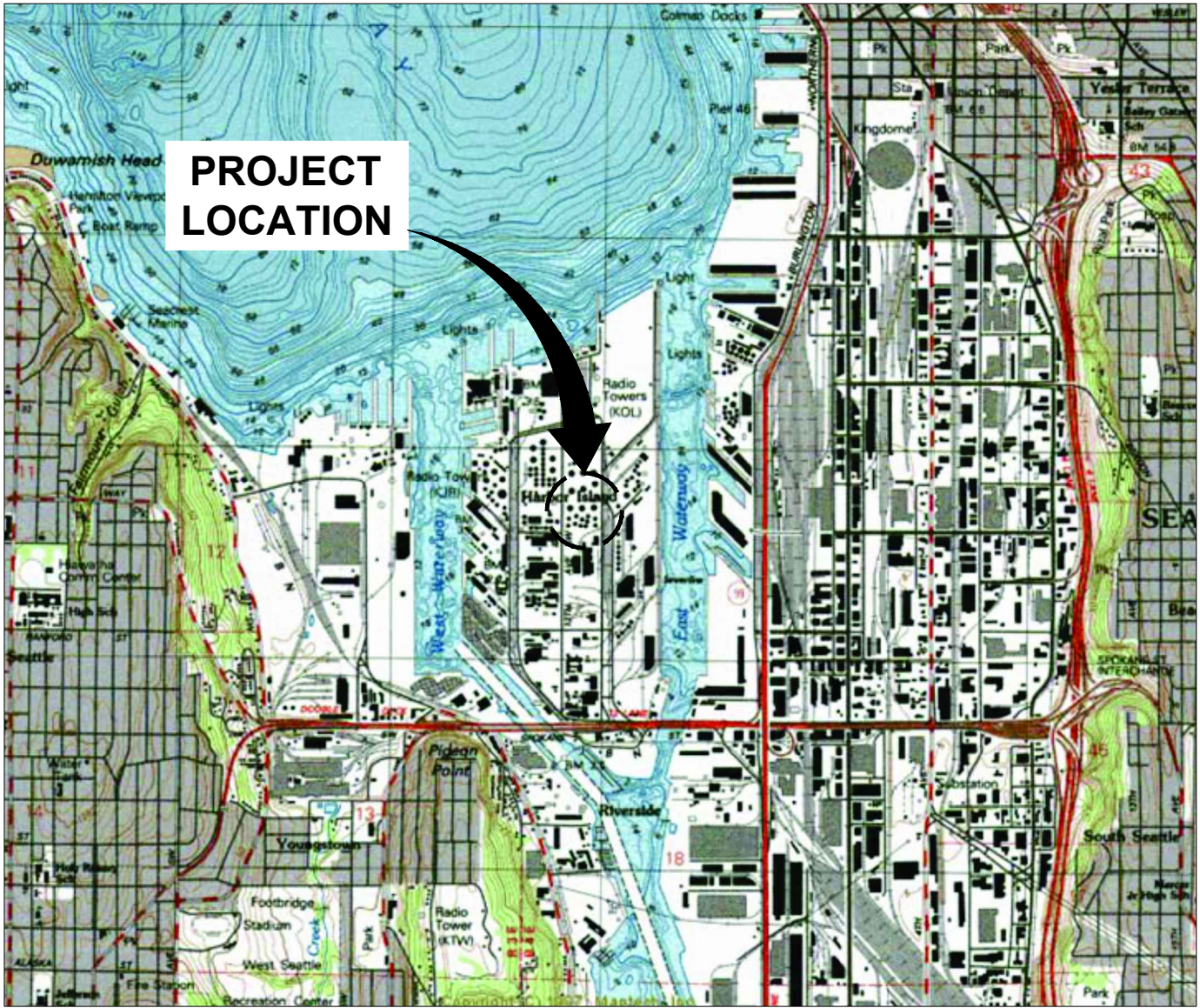
a = The lab analyzed these samples for nitrate and sulfate together, using non-preserved samples (submitted for sulfate analysis). Holding time for non-preserved samples for nitrate analysis is 48 hours and for sulfate analysis is 28 days. These samples were received within the 48-hour holding time.

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.

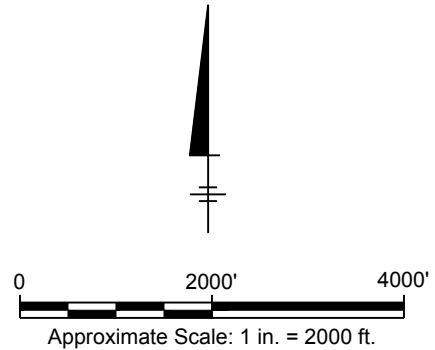
**Figures**




CITY:(Read) DIV:(GROUP:(Read) DB:(Read) LD:(Opt) PIC:(Opt) PM:(Read) TM:(Opt) Lyr:(Opt)ON+OFF+REF-  
 G:\ENV\CAD\Emeryville\ACT\WA000804\2013\000022013\GNM\RDWG\WA000804\NOT.dwg LAYOUT:1 T. SAVED: 3/29/2013 1:31 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 3/29/2013 1:31 PM BY: REYES, ALEC  
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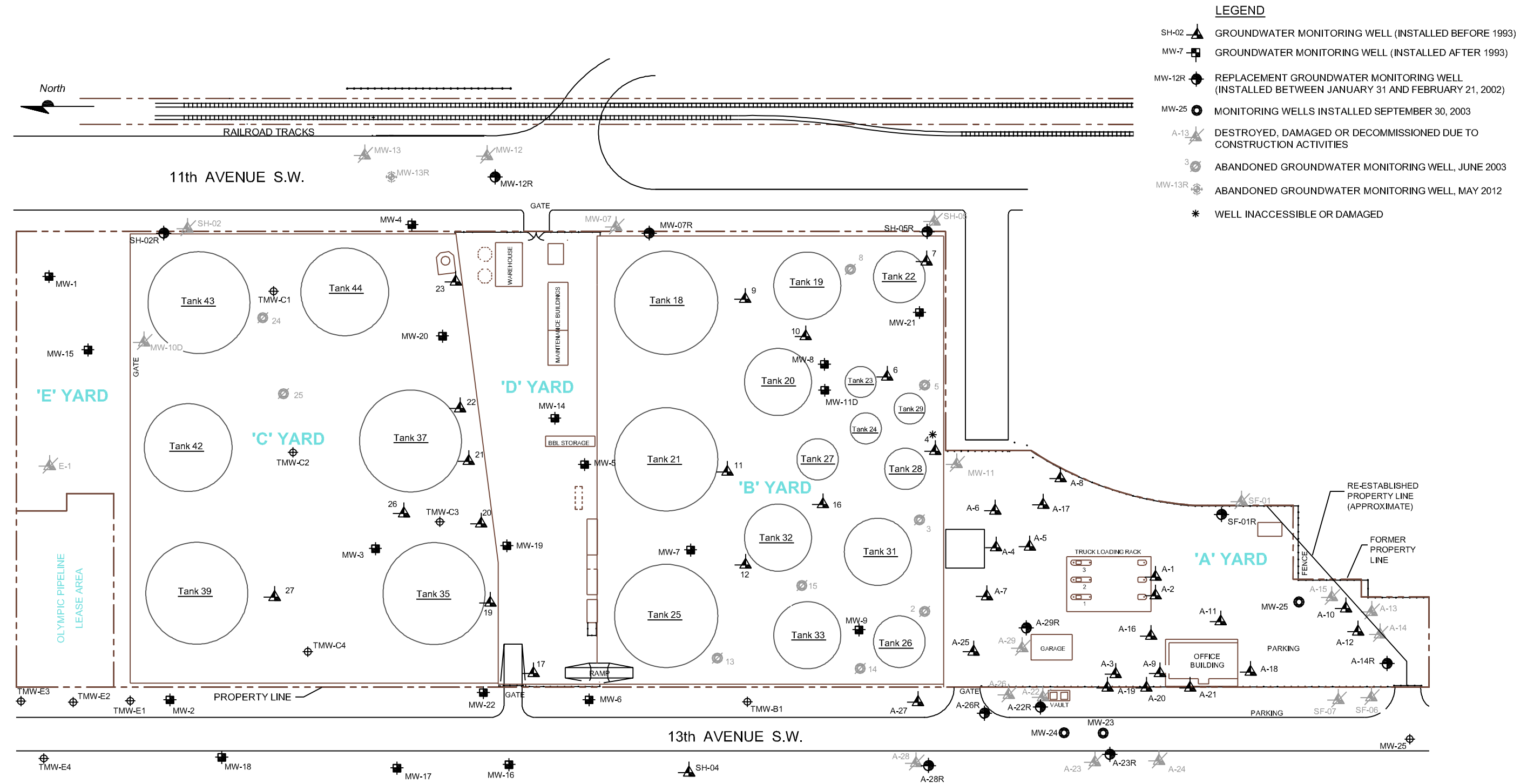


REFERENCE: BASE MAP USGS 7.5. MINUTE TOPOGRAPHIC MAP SEATTLE SOUTH, WASHINGTON 1083

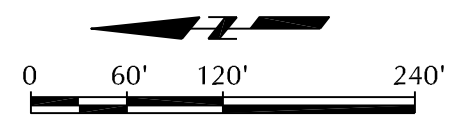


KINDER MORGAN LIQUID TERMINALS, LLC HARBOR ISLAND TERMINAL 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON <b>FIRST QUARTER 2013          GROUNDWATER MONITORING REPORT</b>	
<b>SITE LOCATION MAP</b>	
	FIGURE <b>1</b>

CITY:\Read\ DIV\GROUP\F\Read\ DB\Read\ LD\Op\ PIC\Op\ TMS\Op\ PN\3\Read\ TMS\Op\ LAYOUT: 2. SAVED: 3/29/2013 14:45 PM ACADVER: 18.1S (LMS TECH) PAGES: 18.1S (LMS TECH) PLOTTED: 3/29/2013 14:46 PM BY: REYES, ALEC  
 XREFS: IMAGES: PROJECTNAME: --  
 LAYOUT: 2. SAVED: 3/29/2013 14:45 PM ACADVER: 18.1S (LMS TECH) PAGES: 18.1S (LMS TECH) PLOTTED: 3/29/2013 14:46 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
  - 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



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 HARBOR ISLAND TERMINAL  
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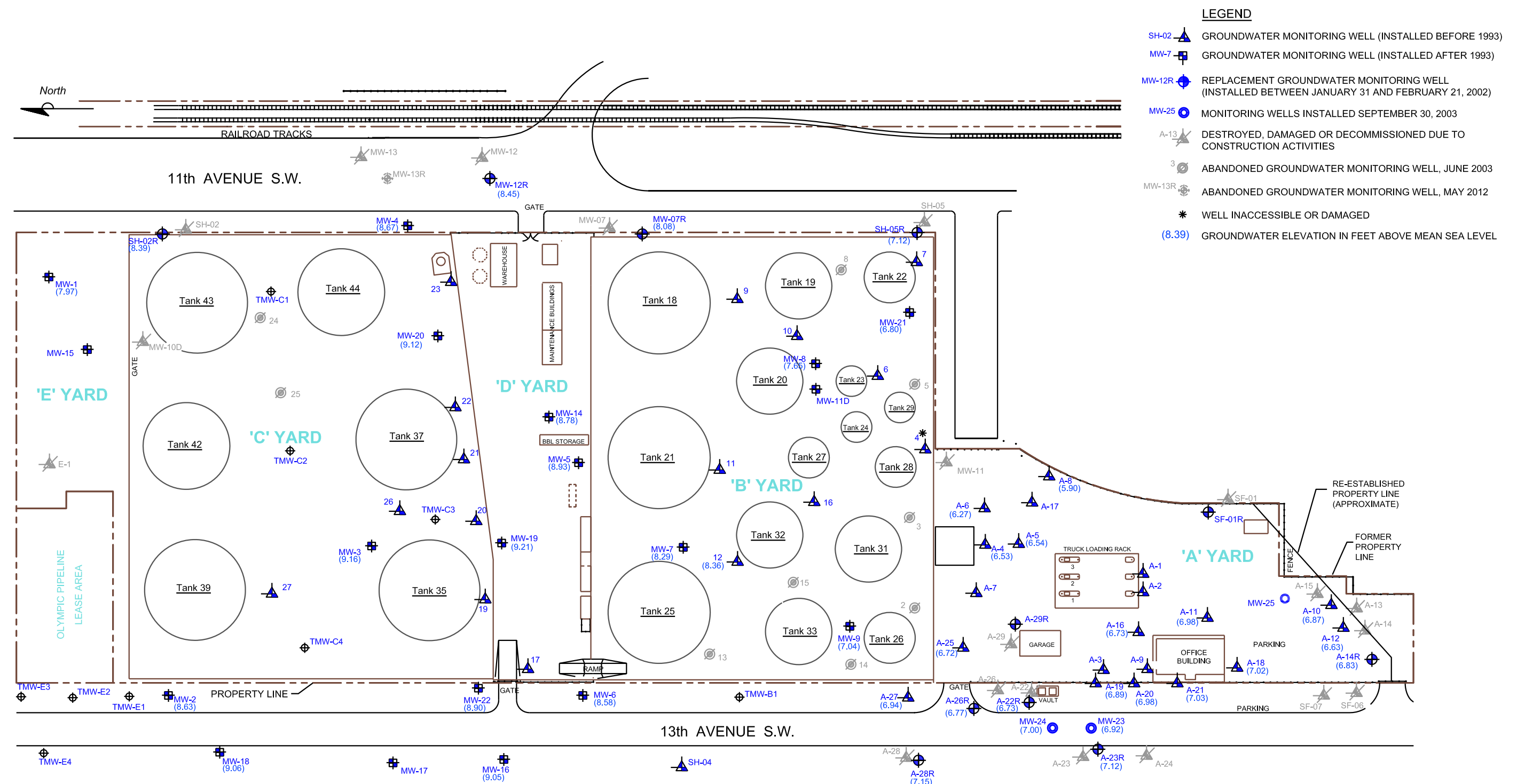
**SITE PLAN**

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FIGURE  
**2**



CITY:\(Recd) DIV\GROUP\Recd DB\Recd LD:\(Opt) PIC:\(Opt) PM:\(Recd) TM:\(Opt) LYS:\(Opt)\N\OFF-REF- Y:\ENVCAD\Emeryville\ACT\W\A00804\2013000022013 G\MMR\DWG\W\A00804 W03.dwg LAYOUT: 3 SAVED: 3/29/2013 1:59 PM ACADVER: 18.1S (LMS TECH) PAGES: 1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 4/5/2013 11:28 AM BY: ROBITAILLE, BEVERLY XREFS: IMAGES: PROJECTNAME: 1



KINDER MORGAN LIQUID TERMINALS, LLC  
 HARBOR ISLAND TERMINAL  
 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON  
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**GROUNDWATER ELEVATION MAP**

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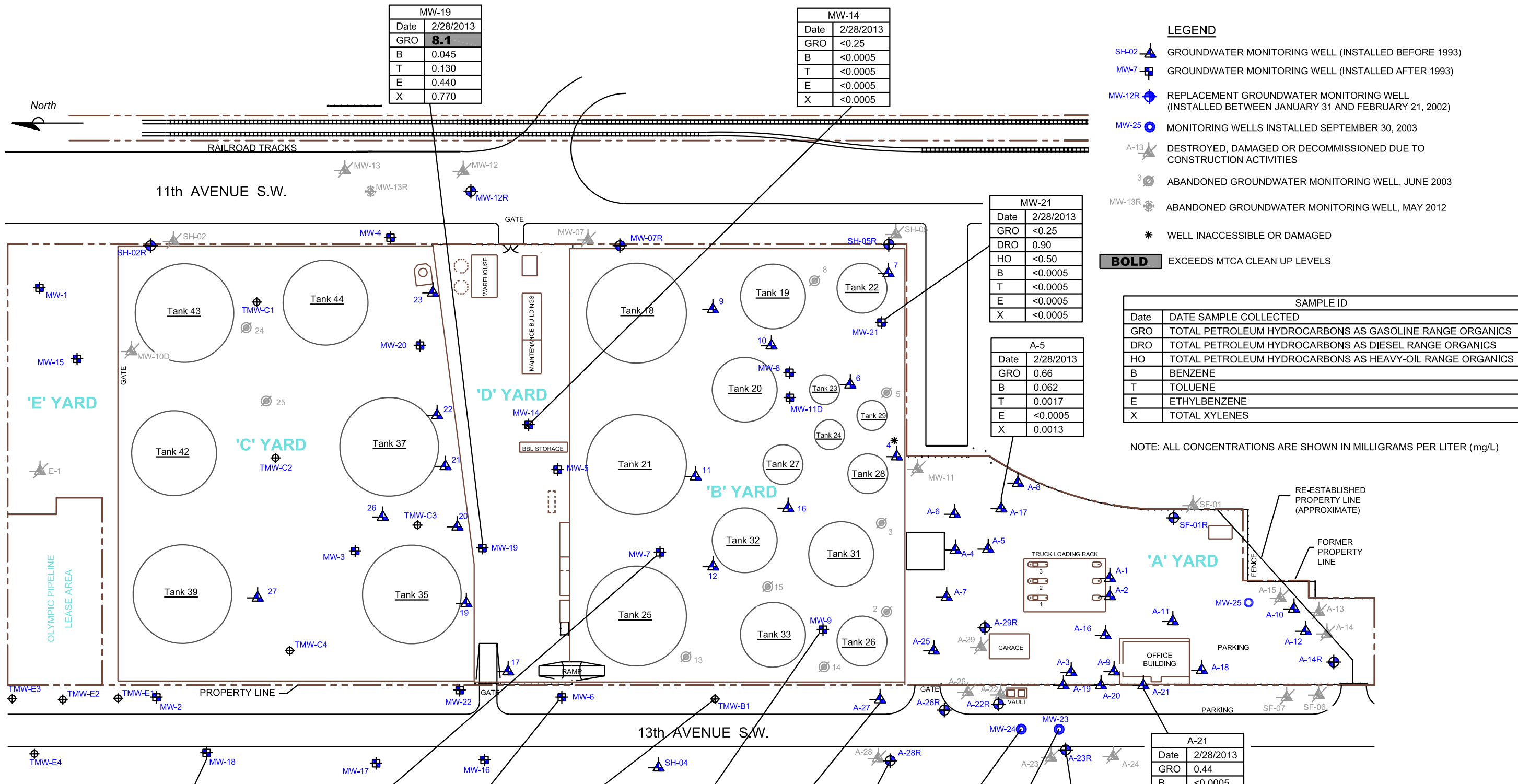
 **ARCADIS**

FIGURE **3**

CITY:\(Recd) DIV\GROUP\Recd DB\Recd PIC\Opt LD\Opt PM\Recd TMI\Opt LYS\Opt\ON\OFF\REF  
 X:\ENVCAD\Emeryville\ACT\W00000402013000022013 GWMR\DWG\W000004 W04.dwg LAYOUT: 4 SAVED: --- ACADVER: 18.1 S (LMS TECH) PAGES: 18 PLOTTED: 4/11/2013 2:24 PM BY: ROBITAILLE, BEVERLY  
 XREFS: IMAGES: PROJECTNAME:



MW-19	
Date	2/28/2013
GRO	<b>8.1</b>
B	0.045
T	0.130
E	0.440
X	0.770

MW-14	
Date	2/28/2013
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

MW-21	
Date	2/28/2013
GRO	<0.25
DRO	0.90
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

A-5	
Date	2/28/2013
GRO	0.66
B	0.062
T	0.0017
E	<0.0005
X	0.0013

**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
- \* WELL INACCESSIBLE OR DAMAGED
- BOLD** EXCEEDS MTCA CLEAN UP LEVELS

SAMPLE ID	
Date	DATE SAMPLE COLLECTED
GRO	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS
DRO	TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS
HO	TOTAL PETROLEUM HYDROCARBONS AS HEAVY-OIL RANGE ORGANICS
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES

NOTE: ALL CONCENTRATIONS ARE SHOWN IN MILLIGRAMS PER LITER (mg/L)

MW-18	
Date	2/28/2013
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

MW-7	
Date	2/28/2013
GRO	<b>1.3</b>
B	<0.0015
T	0.0070
E	0.0070
X	0.190

MW-6	
Date	2/28/2013
GRO	<0.25
B	<0.005
T	<0.005
E	<0.005
X	<0.005

TMW-B1	
Date	2/28/2013
GRO	<b>14</b>
B	0.026
T	<0.010
E	0.500
X	0.870

MW-9	
Date	2/28/2013
GRO	<0.25
B	0.0012
T	<0.0005
E	<0.0005
X	<0.0005

A-27	
Date	2/28/2013
GRO	<b>1.6</b>
B	0.038
T	0.0019
E	0.057
X	0.0078

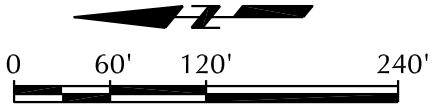
A-28R	
Date	2/28/2013
GRO	<b>2.6</b>
B	0.062
T	<0.0025
E	0.0044
X	0.0059

MW-24	
Date	2/28/2013
GRO	<b>6.6</b>
B	<b>0.290</b>
T	<0.010
E	0.390
X	0.840

MW-23	
Date	2/28/2013
GRO	<b>2.6</b>
B	0.034
T	<0.0025
E	0.160
X	0.010

A-23R	
Date	2/27/2013
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

A-21	
Date	2/28/2013
GRO	0.44
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005



KINDER MORGAN LIQUID TERMINALS, LLC  
 HARBOR ISLAND TERMINAL  
 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON  
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**GROUNDWATER MONITORING REPORT**

---

**GROUNDWATER ANALYTICAL MAP**

---

FIGURE  
**4**



**Attachment A**

*Proposed Reduced Monitoring –  
Site-Wide Groundwater  
Compliance Monitoring Plan,  
Technical Revision Request, and  
Ecology Approval Letter*

June 21, 2007

Mr. Roger Nye  
Washington State Department of Ecology  
Northwest Regional Office  
3190 160<sup>th</sup> Avenue N.E.  
Bellevue, Washington 98008-5452

Sent via FedEx Saver

SUBJ: Site-Wide Groundwater Compliance Monitoring Plan – Proposed  
Reduced Monitoring  
Kinder Morgan Harbor Island Terminal  
Seattle, Washington  
Delta Project No. STKM-001-M.0005



Dear Mr. Nye:

This plan has been prepared on behalf of Kinder Morgan Liquid Terminals, LLC (KMLT) by Delta Environmental Consultants (Delta) and presents a proposed revision to the site-wide groundwater compliance monitoring program for the KMLT Harbor Island Terminal located at 2720 13<sup>th</sup> Avenue Southwest in Seattle, Washington ("the site"). The revisions included in this document supersede those revisions previously proposed in an August 2, 2006 letter to you, and in a second draft dated March 22, 2007. These plan revisions are proposed in accordance with Section 2.3.4 of the Compliance Monitoring Plan (Plan) developed for the site. Further modifications to the Draft Plan were discussed with you by telephone on June 13, 2007, and this Final Proposed Reduced Monitoring Plan incorporates those modifications.

#### **PROPOSED SITE-WIDE COMPLIANCE MONITORING PLAN**

The Plan was developed to describe the protocol and procedures used to confirm that cleanup requirements are achieved at the site. This monitoring plan was prepared to satisfy the requirements of the Model Toxics Control Act (MTCA) regulations WAC 173-340-410, -720, and -820 and in accordance with requirements from Exhibit F of the Consent Decree.

The achievement of cleanup levels in groundwater is measured at points of performance and compliance located within the hydrocarbon plume area and at the downgradient edge of the site. The wells at the downgradient edge of the site are considered conditional points of compliance wells. These points of compliance and performance consist of a network of monitoring wells located in the hydrocarbon plume area and on the downgradient property boundary. Sentry wells are also used to document plume migration, performance standards, and to warn of any unanticipated change in off-site groundwater conditions.

The Compliance Monitoring Plan incorporated in the Consent Decree includes quarterly monitoring for free product, dissolved TPH constituents, total and dissolved lead, and natural attenuation parameters. In accordance with *Section 2.3.4 Monitoring Schedule* of the Plan, the sampling frequency and number of parameters may be reduced if monitoring data indicates that trends are declining. Following are the proposed revisions for each of these compliance monitoring criteria, and the rationale for each revision.

### **Free Product**

As established in the Plan, KMLT currently performs quarterly gauging of 71 wells for monitoring of free product. KMLT proposes to continue monitoring of wells in which free product has been observed during the past 8 quarters, and the 29 wells which were identified as Compliance Monitoring Wells in Table 1 of the Plan. Accordingly, KMLT proposes to continue quarterly gauging of the following 43 wells: A-4, A-5, A-6, A-8, A-10, A-11, A-12, A-14R, A-16, A-18, A-19, A-20, A-21, A-22R, A-23R, A-25, A-26R, A-27, A-28R, 12, MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-12R, MW-13R, MW-14, MW-16, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, SH-02R, SH-05R, and MW-07R.

### **Dissolved TPH Constituents**

The current compliance monitoring program for dissolved TPH constituents includes quarterly sampling of 32 monitoring wells (29 Compliance Monitoring Wells and 3 additional wells which were installed in September 2003 as part of a supplemental study to further characterize free product in the A Yard). A summary of monitoring wells and annual analyses included in the current dissolved TPH constituents compliance monitoring program is presented on Table 1. A site map showing locations of groundwater monitoring wells is included as Figure 2.

An evaluation of groundwater analytical data collected since the execution of the Consent Decree indicates that data collected from numerous monitoring wells have demonstrated that cleanup criteria have either been met from the outset of the program or have demonstrated at least 4 consecutive quarters meeting cleanup criteria. A summary of groundwater analytical results for 2000 through December 2006 are presented in Table 2.

An evaluation of historical groundwater analytical results with respect to established cleanup criteria is summarized in Table 3. Where applicable, wells and corresponding analytes which demonstrate a consistent trend of meeting cleanup criteria are noted. Wells and corresponding analytes are highlighted where historic monitoring indicates a reduction in monitoring frequency or analytes is warranted.

KMLT proposes a revision from quarterly monitoring for TPH parameters as follows. For wells which have demonstrated that cleanup criteria for TPH-G, BTEX, TPH-D, and TPH-O have been met from the outset of the program, KMLT proposes to reduce the frequency of quarterly monitoring to annual monitoring. For wells which have not met the criteria for TPH-G and BTEX, but have met the criteria for TPH-D and TPH-O, KMLT proposes to continue quarterly monitoring for TPH-G and BTEX and discontinue monitoring for TPH-D and TPH-O. Proposed compliance monitoring plan revisions are summarized in Table 4.

After the revised program is initiated, if results demonstrate that any TPH cleanup criteria has been exceeded in a well, KMLT will revert to quarterly monitoring for respective analytes that were exceeded for the well, and will resume quarterly monitoring for natural attenuation parameters.

### **Total and Dissolved Lead**

As established in the Plan, KMLT currently monitors for total lead on a quarterly basis in 20 wells. The purpose of this monitoring is to demonstrate performance and confirmation monitoring of the surface cleanup action for the site. The surface cleanup action, which included removal of surface soils containing concentrations of total lead exceeding the hot-spot cleanup criteria, was executed and completed in April and May 2002. In accordance with *Section 2.2* of the Plan, performance monitoring for total lead has been performed on a quarterly basis since the completion of the surface cleanup action. Following the performance of the surface cleanup action, total lead has infrequently exceeded the cleanup criterion. KMLT proposes to continue monitoring for this parameter on an annual basis.

As required in the Plan, KMLT also currently monitors for dissolved lead on a quarterly basis in the same 20 wells which are monitored for total lead. Cleanup criteria for this parameter was not established in the Cleanup Action Plan. Dissolved lead has been detected in 4 of the 20 wells. Dissolved lead was detected in one or two instances in two wells, and was detected in two wells on a more frequent basis in two wells. Delta proposes to monitor for

dissolved lead in two wells (A-23R and MW-7) which have contained measurable concentrations on a periodic basis in the past.

A summary of monitoring wells and annual analyses included in the current total and dissolved lead compliance monitoring program is presented on Table 1. A summary of groundwater analytical results for 2000 through December 2006 are presented in Table 2. An evaluation of historical groundwater analytical results with respect to established cleanup criteria is summarized in Table 3. Proposed compliance monitoring plan revisions are summarized in Table 4.

### **Natural Attenuation Parameters**


The current compliance monitoring program for natural attenuation parameters includes quarterly sampling of 26 monitoring wells (23 Compliance Monitoring Wells and 3 additional wells which were installed in September 2003 as part of a supplemental study to further characterize free product in the A Yard). In accordance with *Section 2.2.3 Monitoring Schedule* of the Plan which states that natural attenuation monitoring will be conducted quarterly for the first year and annually thereafter, KMLT proposes to discontinue monitoring of wells which have met the criteria for TPH-G, BTEX, TPH-D and TPH-O constituents, and continue monitoring on an annual basis those wells which have not met the criteria. Proposed compliance monitoring plan revisions are summarized in Table 4.

A summary of proposed compliance monitoring plan revisions are presented in Table 4. Wells which are designated for annual monitoring will be monitored during the second quarter event. A summary of monitoring wells and a tally of annual analyses for all parameters proposed in this compliance monitoring program revision is presented on Table 5.

KMLT proposes to incorporate the compliance monitoring plan revisions included herein during the third quarter 2007 monitoring event. Please call if you have any questions regarding the contents of this letter, or if you would like to discuss any aspect of the proposed compliance monitoring plan. Delta looks forward to your approval of this program.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

  
for Ward Crell  
Principal Geologist

Enc: Table 1 – Summary of Current Annual Analyses, Groundwater Compliance Program  
Table 2 – Groundwater Analytical Results  
Table 3 – Analytical Summary 2000 – December 2006, Current Groundwater Compliance Program  
Table 4 – Proposed Groundwater Compliance Program, Recommended Monitoring Frequency  
Table 5 – Summary of Proposed Annual Analyses, Groundwater Compliance Program  
Figure 1 – Site Plan – Groundwater Monitoring Well Locations

cc: Mr. Robert Truedinger, Kinder Morgan Energy Partners, L.P., Richmond, California  
Ms. Kelsy Hardy, Kinder Morgan Energy Partners, L.P., Orange, California (File Copy - CD Only)

**TABLE 1**  
**CURRENT ANNUAL ANALYSES**  
**GROUNDWATER COMPLIANCE PROGRAM**  
 Kinder Morgan Harbor Island Terminal

Well ID	Indicator Hazardous Substances				Natural Attenuation Parameters				
	TPH-G/ BTEX	TPH-D+ extended	Total Lead	Dissolved Lead	Nitrate (NO3)	Ferrous Iron	Methane	Sulfate (SO4)	Sulfide (H2S)
A-5	4	4							
A-8	4	4							
A-10	4	4			4	4	4	4	4
A-14R	4	4	4	4	4	4	4	4	4
A-21	4	4	4	4	4	4	4	4	4
A-23R	4	4	4	4	4	4	4	4	4
A-27	4	4			4	4	4	4	4
A-28R	4	4	4	4	4	4	4	4	4
MW-1	4	4	4	4	4	4	4	4	4
MW-2	4	4	4	4	4	4	4	4	4
MW-3	4	4	4	4	4	4	4	4	4
MW-4	4	4			4	4	4	4	4
MW-5	4	4	4	4	4	4	4	4	4
MW-6	4	4	4	4	4	4	4	4	4
MW-7	4	4	4	4	4	4	4	4	4
MW-8	4	4	4	4	4	4	4	4	4
MW-9	4	4	4	4	4	4	4	4	4
MW-12R	4	4	4	4					
MW-13R	4	4	4	4					
MW-14	4	4			4	4	4	4	4
MW-16	4	4							
MW-18	4	4							
MW-19	4	4			4	4	4	4	4
MW-20	4	4			4	4	4	4	4
MW-21	4	4			4	4	4	4	4
MW-22	4	4			4	4	4	4	4
SH-02R	4	4	4	4	4	4	4	4	4
SH-05R	4	4	4	4	4	4	4	4	4
MW-07R	4	4	4	4	4	4	4	4	4
MW-23	4	4	4	4	4	4	4	4	4
MW-24	4	4	4	4	4	4	4	4	4
MW-25	4	4	4	4	4	4	4	4	4
<b>ANNUAL TOTAL:</b>	128	128	80	80	104	104	104	104	104

**Notes:** Number denotes number of quarters sampled annually

 Parameter not analyzed

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
 Kinder Morgan Liquid Terminals, LLC  
 Harbor Island Terminal  
 2720 13th Avenue Southwest  
 Seattle, Washington

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
<b>MW-1</b>	02/13/02	<0.25	2.0	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	05/21/02	<0.25	1.9	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	08/28/02	<0.25	1.0	<0.5	0.0013	0.0067	0.00052	0.0016	<0.005*
	11/05/02	<0.25	0.87	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.021*
	02/19/03	<0.25	1.9	<0.5	<0.0005	0.00058	<0.0005	<0.0005	<0.005*
	06/10/03	<0.25	1.1	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	11/19/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	02/25/04	<0.25	1.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	05/11/04	<0.25	0.87	<0.50	<0.0005	0.00068	<0.0005	<0.0005	<0.0050*
	08/25/04	0.83	0.40	<0.50	<0.0005	<0.0005	0.00065	<0.0005	<0.0050*
	12/15/04	<0.25	0.38	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/09/05	<0.25	0.63	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/05	<0.25	0.80	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/21/05	<0.25	0.40	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
06/07/06	<0.25	0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0052*	
<b>12/13/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>	
<b>MW-2</b>	02/13/02	<0.25	0.71	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	05/21/02	<0.25	0.66	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	08/29/02	<0.25	0.91	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	11/05/02	<0.25	0.73	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	02/19/03	<0.25	0.74	<0.5	<0.0005	0.00062	<0.0005	<0.0005	0.028*
	06/10/03	<0.25	0.61	<0.25	<0.0005	0.00071	<0.0005	<0.0005	0.026 <sup>sa</sup>
	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.062*
	11/19/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.021*
	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.030*
	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/10/05	<0.25	0.29	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/07/05	<0.25	0.91	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.036*
	09/20/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/13/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.024*
03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0063*	
09/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
<b>12/12/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>	
<b>MW-3</b>	02/13/02	<0.25	1.8	<0.5	0.011	0.0015	0.0045	0.011	<0.005*
	05/20/02	0.38	1.9	<0.5	0.052	0.0028	0.025	0.02	0.01*
	08/28/02	0.62	2.5	<0.5	0.11	0.0071	0.021	0.030	<0.005*
	11/06/02	0.63	1.1	<0.5	0.14	0.0053	0.021	0.015	0.006*
	02/19/03	<0.25	1.8	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.014*
	06/11/03	<0.25	1.3	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	0.019*
	09/17/03	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.042*
	11/20/03	<0.25	2.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0063*
	02/25/04	<0.25	1.2	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.025*
	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0051*
	12/15/04	<0.25	0.33	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.018*
	03/09/05	<0.25	<0.25	<0.50	0.001	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/05	<0.25	<0.25	<0.50	0.0011	<0.0005	<0.0005	<0.0005	<0.0050*
	09/21/05	<0.25	<0.25	<0.50	0.00094	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
<b>12/13/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>	
<b>Dup-2<sup>a</sup></b>	06/08/05	<0.25	<0.25	<0.50	0.0011	<0.0005	<0.0005	<0.0005	<0.0050*
	09/21/05	<0.25	0.27	<0.50	0.00098	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.010*
	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
<b>12/13/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>	



**TABLE 2  
GROUNDWATER ANALYTICAL RESULTS**

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

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
<b>MW-4</b>	02/14/02	0.78	280	<50	0.3	0.0072	0.0023	0.0082	NA
	05/21/02	1.5	8.6	<0.5	0.43	0.023	0.034	0.13	NA
	08/28/02	3.3	30	2.6	1.1	0.016	0.016	0.024	NA
	11/04/02	NS	NS	NS	NS	NS	NS	NS	NA
	02/19/03	3.1	31	<0.5	0.056	0.0017	0.014	0.02	NA
	06/10/03	0.39	12	<0.25	0.031	0.0012	0.0091	0.0096	NA
	09/16/03	NS	NS	NS	NS	NS	NS	NS	NS
	11/19/03	0.25	19	<0.50	0.033	<0.001	0.0042	0.0069	NA
	02/25/04	0.36	15	<0.50	0.035	0.0014	0.0056	0.0094	NA
	05/12/04	0.33	7.4	<0.50	0.012	<0.001	0.0048	0.0058	NA
	08/26/04	<0.50	5.1	<0.50	0.014	<0.0025	0.0039	0.0069	NA
	12/15/04	NS	NS	NS	NS	NS	NS	NS	NA
	03/09/05	<2.0	11	<0.50	<0.01	<0.01	<0.01	0.013	NA
	06/08/05	<1.0	16	1.1	<0.005	<0.005	<0.005	<0.005	<0.0050
	09/21/05	<2.0	19	2.1	<0.010	<0.010	<0.010	<0.010	NA
	12/14/05	<0.50	6.2	0.81	0.012	<0.0025	0.0032	0.0084	NA
	03/14/06	<0.40	3.9	0.69	0.0063	<0.0020	0.0020	0.0062	NA
	06/07/06	<0.50	4.5	<0.50	0.0037	<0.0025	<0.0025	<0.0025	NA
	09/13/06	<0.50	2.7	<0.50	0.0034	<0.0025	<0.0025	0.0029	NA
	<b>12/13/06</b>	<b>&lt;0.25</b>	<b>3.7</b>	<b>0.62</b>	<b>0.0012</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>0.0023</b>	<b>NA</b>
<b>MW-5</b>	02/13/02	<0.25	<0.25	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	05/21/02	<0.25	<0.5	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.01*
	08/29/02	<0.25	1.2	<0.5	<0.0005	0.0018	<0.0005	0.00063	<0.005*
	11/05/02	<0.25	1.6	<0.5	0.0055	0.0016	<0.0005	0.00056	<0.005*
	02/20/03	<0.25	<0.25	<0.5	<0.0005	0.00066	<0.0005	<0.0005	<0.005*
	06/11/03	<0.25	0.36	<0.25	<0.0005	0.00079	<0.0005	<0.0005	<0.005*
	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.011*
	11/20/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0086*
	02/24/04	<0.25	<0.50	<0.50	<0.0005	0.0014	<0.0005	<0.0005	<0.0050*
	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/15/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/09/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.11*
	06/08/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/21/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.012*
	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0099*
	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.013*
	<b>12/13/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>0.0088*</b>
<b>MW-6</b>	02/13/02	0.97	1.1	<0.5	0.014	0.0007	<0.0005	0.00065	<0.005*
	05/22/02	1.1	2.5	<0.5	0.035	0.0012	0.0024	0.00072	<0.005*
	08/29/02	0.58	6.4	<0.5	0.0014	<0.001	<0.001	<0.001	<0.005*
	11/05/02	0.59	7.3	<0.5	0.064	<0.001	<0.001	0.0016	0.02*
	02/19/03	0.54	1.7	<0.5	0.0062	<0.0005	<0.0005	<0.0005	<0.005*
	06/10/03	0.70	1.9	<0.25	0.025	0.0011	0.00052	0.00051	<0.005*
	09/16/03	0.68	<0.50	<0.50	<0.0005	<0.0005	0.00053	<0.0005	0.019*
	11/19/03	0.44	1.6	<0.50	0.0095	0.00067	<0.0005	0.00051	<0.0050*
	02/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	05/11/04	1.0	0.67	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/25/04	<0.25	0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/04	0.82	0.81	<0.50	0.008	<0.0005	<0.0005	<0.0005	0.011*
	03/10/05	1.0	0.42	<0.50	0.0011	<0.0005	<0.0005	<0.0005	<0.0050*
	06/07/05	0.9	<0.25	<0.50	0.0014	<0.0005	<0.0005	<0.0005	<0.0050*
	09/20/05	0.9	<0.25	<0.50	<0.0005	<0.0005	0.00062	<0.0005	<0.0050*
	12/13/05	1.2	0.38	<0.50	0.0032	<0.0005	0.0005	<0.0005	<0.0050*
	03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/12/06	0.71	<0.25	<0.50	<0.0005	0.00055	<0.0005	<0.0005	<0.0050*
	<b>12/12/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>0.00055</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>

**TABLE 2  
GROUNDWATER ANALYTICAL RESULTS**

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

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
<b>MW-7</b>	02/14/02	13	7.5	<0.5	0.20	0.24	0.57	1.8	0.035*
	05/21/02	6.6	11	<0.5	0.16	0.089	0.43	0.66	0.04*
	08/29/02	2.9	5.7	<0.5	0.12	0.042	0.24	0.11	0.047*
	11/05/02	0.9	5.9	<0.5	0.021	0.0022	0.004	0.0066	0.041*
	02/20/03	9.7	11	<0.5	0.12	0.13	0.33	1.4	0.11 <sup>sa</sup>
	06/11/03	5.7	8.7	<0.25	0.13	0.092	0.26	0.52	0.081 <sup>sa</sup>
	09/17/03	1.4	12	<0.50	0.078	0.031	0.15	0.089	0.11 <sup>sa</sup>
	11/20/03	0.26	0.8	<0.50	<0.0005	<0.0005	<0.0005	0.035	0.019 <sup>sa</sup>
	02/26/04	15	21	<0.50	0.11	0.34	0.63	3.8	0.034 <sup>sa</sup>
	05/11/04	6.3	11	<0.50	0.059	0.15	0.31	1.3	0.0083 <sup>sa</sup>
	08/26/04	7.1	20	<0.50	0.054	0.22	0.34	1.7	0.067 <sup>sa</sup>
	12/15/04	18	4.4	<0.50	0.14	0.37	0.53	3	0.19 <sup>sa</sup>
	03/09/05	3.5	2.1	<0.50	0.045	0.034	0.09	0.27	0.079 <sup>sa</sup>
	06/08/05	2.9	2.3	<0.50	0.054	0.05	0.11	0.44	0.069 <sup>sa</sup>
	09/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/05	8.8	0.59	<0.50	0.16	0.19	0.31	1.5	0.042 <sup>sa</sup>
03/14/06	15	0.50	<0.50	0.12	0.26	0.50	3.6	0.026*	
06/07/06	17	0.85	<0.50	0.12	0.35	0.69	4.5	0.023*	
09/13/06	2.4	0.32	<0.50	0.05	0.06	0.19	0.39	0.021 <sup>a</sup>	
<b>12/13/06</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	
<b>MW-8</b>	02/14/02	<0.25	8.1	<5.0	<0.0005	0.00086	<0.0005	<0.0005	0.03*
	08/29/02	<0.25	7.5	<0.5	<0.0005	0.00082	<0.0005	<0.0005	0.017*
	11/05/02	<0.25	1.7	1.2	<0.0005	<0.0005	<0.0005	<0.0005	0.012*
	02/20/03	<0.25	6.6	<0.5	<0.0005	0.00055	<0.0005	0.0024	0.029*
	06/11/03	<0.25	3.8	<0.25	0.0013	<0.001	<0.001	<0.001	0.012*
	09/17/03	<0.25	3.3	0.77	<0.0005	<0.0005	<0.0005	<0.0005	0.030*
	11/20/03	<0.25	2.5	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*
	02/26/04	<0.25	2.7	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.016*
	05/11/04	<0.25	1.5	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/26/04	<0.25	1.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/15/04	<0.25	1.5	<0.50	<0.001	<0.001	<0.001	<0.001	0.0071*
	03/09/05	<0.25	1.6	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0094*
	06/08/05	<0.25	1.8	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.014*
	09/21/05	<0.25	1.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.011*
	12/14/05	<0.25	1.1	0.58	<0.001	<0.001	<0.001	0.0013	0.0060*
	03/14/06	<0.25	0.54	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.011*
06/07/06	<0.25	0.88	0.61	<0.0005	<0.0005	<0.0005	<0.0005	0.0093*	
09/13/06	<0.25	0.35	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.012*	
<b>12/13/06</b>	<b>&lt;0.25</b>	<b>0.82</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>0.0060*</b>	
<b>MW-9</b>	06/11/03	6.0	13	<0.50	0.0031	0.036	0.076	0.6	0.022*
	09/17/03	5.3	39	0.72	0.026	0.027	0.09	0.45	0.0095*
	11/20/03	8.5	19	<0.50	<0.005	0.018	0.14	1.1	0.0096*
	02/26/04	4.1	28	<0.50	0.022	0.0072	0.025	0.47	0.0083*
	05/11/04	4.1	5.8	<0.50	0.0023	0.0093	0.081	0.44	<0.0050*
	08/26/04	4.2	6.2	<0.50	0.0066	0.025	0.13	0.43	0.0099*
	12/15/04	5.4	7.6	<0.50	<0.0025	0.011	0.12	0.39	0.0094*
	03/09/05	4.5	3.5	<0.50	0.0037	0.0047	0.042	0.18	0.021*
	06/08/05	3.2	3.9	<0.50	0.0035	0.0087	0.069	0.17	0.0076*
	09/21/05	2.3	2.6	<0.50	0.007	0.0077	0.033	0.12	0.0076*
	12/14/05	4.7	1.2	<0.50	0.0078	0.010	0.12	0.38	0.0095*
	03/14/06	2.4	1.4	<0.50	0.0024	0.003	0.018	0.12	0.013*
	06/07/06	<0.25	1.0	<0.50	0.0011	0.023	0.049	0.21	0.021*
09/13/06	1.8	0.46	<0.50	0.0044	0.016	0.063	0.06	0.010*	
<b>12/13/06</b>	<b>2.6</b>	<b>3.8</b>	<b>&lt;0.50</b>	<b>&lt;0.0025</b>	<b>&lt;0.0025</b>	<b>0.024</b>	<b>0.190</b>	<b>0.025*</b>	

**TABLE 2  
GROUNDWATER ANALYTICAL RESULTS**

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

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
<b>MW-12</b>	06/20/01	<0.06	1.7	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004
<b>MW-12R</b>	02/14/02	<0.25	1.4	<0.5	0.014	<0.0005	<0.0005	<0.0005	<0.005*
	05/21/02	<0.25	2.5	<0.5	0.08	0.0013	<0.0005	0.00066	<0.005*
	08/28/02	<0.25	2.1	<0.5	0.028	0.0059	<0.0005	0.0015	<0.005*
	11/05/02	<0.25	1.3	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	02/19/03	0.26	2.5	<0.5	0.19	0.0012	<0.001	<0.001	<0.005*
	06/10/03	0.41	1.3	<0.25	0.11	0.00055	<0.0005	<0.0005	<0.005*
	09/16/03	<0.25	0.67	<0.50	0.0021	<0.0005	<0.0005	<0.0005	<0.013*
	11/19/03	0.42	<0.25	<0.50	0.26	<0.001	<0.001	<0.001	0.0078
	02/25/04	0.26	1.8	<0.50	0.099	0.0005	<0.0005	0.00076	0.010*
	05/12/04	0.56	0.74	<0.50	0.20	<0.001	<0.001	<0.001	<0.0050*
	08/26/04	0.35	0.50	<0.50	0.089	<0.001	<0.001	<0.001	<0.0050*
	12/15/04	<0.25	0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/09/05	<0.25	0.39	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/05	<0.25	0.39	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA*
	09/21/05	0.26	0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/14/06	<0.25	<0.25	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*
	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	<b>12/13/06</b>	<b>&lt;0.25</b>	<b>0.27</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>
<b>MW-13</b>	06/19/01	<0.05	1.3	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004
<b>MW-13R</b>	02/14/02	<0.25	3.2	<0.5	0.056	<0.0005	<0.0005	0.00075	<0.005*
	05/21/02	<0.25	3.5	<0.5	0.0025	<0.0005	<0.0005	<0.0005	<0.005*
	08/28/02	<0.25	2.4	<0.5	<0.0005	0.0019	<0.0005	0.0007	<0.005*
	11/05/02	<0.25	2.0	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	02/19/03	<0.25	1.7	<0.5	0.00078	0.0032	<0.0005	0.00083	<0.005*
	06/10/03	<0.25	0.76	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	09/16/03	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0078*
	11/19/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0066
	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.012*
	05/12/04	<0.25	0.61	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/26/04	<0.25	0.49	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/15/04	<0.25	0.91	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/09/05	<0.25	0.35	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/05	<0.25	0.49	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA*
	09/21/05	<0.25	0.39	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/14/06	<0.25	<0.25	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*
	06/07/06	<0.25	<0.25	<0.50	<0.005	<0.005	<0.005	<0.005	<0.0050*
	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	<b>12/13/06</b>	<b>&lt;0.25</b>	<b>0.33</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0077*</b>

**TABLE 2  
GROUNDWATER ANALYTICAL RESULTS**

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

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
<b>MW-14</b>	02/13/02	2.5	37	<5.0	0.01	0.0085	0.18	0.22	NA
	05/21/02	2.9	23	1.0	0.0093	0.0057	0.18	0.15	NA
	08/29/02	2.9	28	<0.5	0.017	0.0073	0.21	0.14	NA
	11/05/02	2.0	28	0.91	0.06	0.0059	0.12	0.076	NA
	02/20/03	3.4	18	<0.5	0.056	0.0062	0.14	0.11	NA
	06/11/03	3.1	28	<0.5	0.059	0.0098	0.23	0.13	NA
	09/16/03	<1.0	15	<0.50	0.13	<0.005	0.019	0.022	NA
	11/20/03	<2.0	29	0.70	0.12	<0.01	0.02	0.031	NA
	02/24/04	2.4	21	<0.50	0.061	0.014	0.25	0.2	NA
	05/11/04	2.7	27	<0.50	0.053	0.0092	0.21	0.16	NA
	08/26/04	2.3	11	0.53	0.024	<0.0025	0.16	0.19	NA
	12/15/04	1.2	9.6	<0.50	0.0084	<0.005	0.01	0.0055	NA
	03/09/05	4.2	7.7	<0.50	0.0053	0.0094	0.18	0.099	NA
	06/08/05	3.1	8.8	<0.50	0.0043	0.0069	0.17	0.11	NA
	09/21/05	1.6	10.0	1.1	0.012	0.0048	0.077	0.068	NA
	12/14/05	3.1	2.0	<0.50	0.0059	0.0075	0.120	0.068	NA
03/14/06	0.79	2.1	<0.50	<0.0025	<0.0025	0.023	0.03	NA	
06/07/06	0.84	3.0	<0.50	<0.0025	<0.0025	0.061	0.033	NA	
09/13/06	2.4	1.8	<0.50	<0.0025	0.0060	0.100	0.056	NA	
	<b>12/13/06</b>	<b>1.1</b>	<b>1.4</b>	<b>&lt;0.50</b>	<b>&lt;0.0025</b>	<b>&lt;0.0025</b>	<b>0.044</b>	<b>0.029</b>	<b>NA</b>
<b>MW-16</b>	02/13/02	<0.25	<0.25	<0.5	0.0013	0.0037	<0.0005	0.0011	NA
	05/21/02	<0.25	<0.5	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	08/29/02	<0.25	<0.5	<0.5	<0.0005	0.0022	<0.0005	0.00069	NA
	11/05/02	<0.25	0.29	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	02/19/03	<0.25	<0.25	<0.5	<0.0005	0.0018	<0.0005	<0.0005	NA
	06/10/03	<0.25	<0.25	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	NA
	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	11/19/03	<0.25	<0.25	<0.50	<0.0005	0.0013	<0.0005	0.00062	NA
	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	08/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	12/15/04	<0.25	<0.25	<0.50	0.029	<0.0005	<0.0005	<0.0005	NA
	03/10/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	06/07/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	09/20/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	12/13/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA	
06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA	
09/12/06	<0.25	<0.25	<0.50	<0.0005	0.00062	0.0012	<0.0005	NA	
	<b>12/12/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>NA</b>
<b>MW-18</b>	02/13/02	7.6	0.77	<0.5	1.8	0.067	0.29	0.34	NA
	05/21/02	1.2	0.30	<0.5	0.25	0.016	0.068	0.068	NA
	08/29/02	1.6	<0.5	<0.5	0.45	0.014	0.032	0.044	NA
	11/05/02	1.1	<0.25	<0.5	<0.3	0.010	0.011	0.031	NA
	02/19/03	<0.25	<0.25	<0.5	0.0035	0.0047	<0.0005	0.0016	NA
	06/10/03	<0.25	<0.25	<0.25	0.022	0.0016	<0.0005	0.004	NA
	09/16/03	<0.25	<0.50	<0.50	0.036	0.0019	<0.0005	0.0075	NA
	11/19/03	<0.25	<0.25	<0.50	0.0042	<0.0005	<0.0005	0.0015	NA
	02/25/04	0.58	<0.25	<0.50	0.11	0.0048	0.00087	0.026	NA
	05/11/04	1.1	<0.25	<0.50	0.25	0.0073	0.0016	0.037	NA
	08/26/04	<0.25	<0.25	<0.50	0.003	<0.0005	<0.0005	<0.0005	NA
	12/15/04	0.84	<0.25	<0.50	0.14	0.006	0.0019	0.029	NA
	03/10/05	0.84	<0.25	<0.50	0.25	0.0049	0.002	0.021	NA
	06/07/05	0.68	<0.25	<0.50	0.17	0.0039	0.0019	0.0098	NA
	09/20/05	4.0	<0.25	<0.50	0.74	0.021	0.0091	0.09	NA
	12/13/05	2.3	<0.25	<0.50	0.45	0.015	0.0067	0.033	NA
03/15/06	4.9	<0.25	<0.50	1.2	0.035	0.025	0.12	NA	
06/08/06	1.2	<0.25	<0.50	0.15	0.011	0.011	0.034	NA	
09/12/06	0.35	<0.25	<0.50	0.023	0.0021	0.0022	0.0047	NA	
	<b>12/12/06</b>	<b>0.28</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>0.023</b>	<b>0.0018</b>	<b>0.0019</b>	<b>0.0060</b>	<b>NA</b>

**TABLE 2  
GROUNDWATER ANALYTICAL RESULTS**

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

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
<b>MW-19</b>	02/13/02	29	6.8	<2.5	0.057	0.73	0.58	6.5	NA
	05/21/02	30	7.7	<0.5	0.049	0.65	0.53	6.5	NA
	08/29/02	13	11	<0.5	0.14	0.29	0.20	2.1	NA
	11/05/02	8.2	3.0	<0.5	0.21	0.37	0.16	1.7	NA
	02/20/03	38	19	<0.5	0.091	1.2	0.80	8.0	NA
	06/11/03	32	15	<1.0	0.042	0.38	0.80	6.7	NA
	09/16/03	4.2	12	<0.50	0.19	0.043	0.19	1.1	NA
	11/20/03	22	10	<0.50	0.11	0.67	0.75	6.1	NA
	02/24/04	19	14	<0.50	<0.015	0.49	0.63	4.7	NA
	05/11/04	27	13	<0.50	<0.025	0.22	0.87	7.2	NA
	08/26/04	22	0.72	<0.50	0.042	0.26	0.64	4.6	NA
	12/15/04	15	7.6	<0.50	0.039	0.12	0.37	2.7	NA
	03/09/05	27	9.1	<0.50	0.073	0.18	0.56	3.4	NA
	06/08/05	17	6.3	<0.50	0.071	0.17	0.61	2.8	NA
	09/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/05	NS	NS	NS	NS	NS	NS	NS	NS
	03/14/06	NS	NS	NS	NS	NS	NS	NS	NS
06/07/06	14	1.4	<0.50	<0.010	0.043	0.29	1.4	NA	
09/13/06	11	0.5	<0.50	0.032	0.047	0.41	1.1	NA	
	<b>12/13/06</b>	<b>8.0</b>	<b>1.4</b>	<b>&lt;0.50</b>	<b>0.016</b>	<b>0.052</b>	<b>0.30</b>	<b>1.4</b>	<b>NA</b>
<b>MW-20</b>	02/13/02	<0.25	0.64	<0.5	<0.001	<0.001	<0.001	<0.001	NA
	05/20/02	<0.25	1.3	<0.5	0.018	0.0012	0.0048	0.014	NA
	08/29/02	0.6	1.1	<0.5	0.057	0.0065	0.021	0.084	NA
	11/06/02	<0.25	0.81	<0.5	0.0023	0.00053	<0.0005	<0.0005	NA
	02/19/03	<0.25	<0.25	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	06/11/03	<0.25	0.68	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	NA
	09/17/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	11/20/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	0.00072	NA
	02/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	08/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	12/15/04	<0.25	0.30	<0.50	0.0013	<0.0005	<0.0005	<0.0005	NA
	03/09/05	<0.25	<0.25	<0.50	0.00074	<0.0005	<0.0005	<0.0005	NA
	06/08/05	<0.25	0.55	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	09/21/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA	
09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA	
	<b>12/13/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>NA</b>
<b>MW-21</b>	06/11/03	NS	NS	NS	NS	NS	NS	NS	NS
	09/17/03	NS	NS	NS	NS	NS	NS	NS	NS
	11/20/03	0.97	19	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	NA
	02/26/04	2.3	35	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	NA
	05/11/04	1.2	29	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	NA
	08/26/04	4.3	33	<0.50	<0.001	<0.001	0.0013	0.0014	NA
	12/15/04	NS	NS	NS	NS	NS	NS	NS	NA
	03/09/05	2.4	140	<5.0	<0.0015	<0.0015	0.0016	<0.0015	NA
	06/08/05	1.8	31	0.5	<0.002	<0.002	0.0026	<0.002	NA
	09/21/05	1.7	46	3.3	<0.0010	<0.0010	0.0013	<0.0010	NA
	12/14/05	1.0	6.1	0.54	<0.002	<0.002	0.0027	<0.002	NA
	03/14/06	<0.25	33	3.1	<0.0005	<0.0005	<0.0005	<0.0005	NA
06/07/06	0.8	18	1.2	<0.0025	<0.0025	<0.0025	<0.0025	NA	
09/13/06	NS	NS	NS	NS	NS	NS	NS	NS	
	<b>12/13/06</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>

**TABLE 2  
GROUNDWATER ANALYTICAL RESULTS**

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

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
<b>MW-22</b>	02/13/02	0.96	9.2	<0.5	0.012	0.0053	0.017	0.0097	NA
	05/21/02	1.1	7.7	<0.5	0.16	0.049	0.023	0.03	NA
	08/29/02	1.4	2.4	<0.5	0.5	0.0093	0.044	0.0066	NA
	11/05/02	0.49	1.7	<0.5	0.14	0.0031	0.025	<0.001	NA
	02/19/03	<0.25	9.1	<0.5	<0.001	<0.001	<0.001	<0.001	NA
	06/10/03	<0.25	7.4	0.87 <sup>a</sup>	<0.001	<0.001	<0.001	<0.001	NA
	09/16/03	<0.25	2.7	<0.50	0.0018	<0.0005	<0.0005	<0.0005	NA
	11/19/03	<0.50	8.4	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	NA
	02/25/04	<0.25	6.4	<0.50	<0.001	<0.001	<0.001	<0.001	NA
	05/11/04	<0.25	2.0	<0.50	<0.001	<0.001	<0.001	<0.001	NA
	08/25/04	<0.25	0.61	<0.50	<0.001	<0.001	<0.001	<0.001	NA*
	12/14/04	<0.25	1.1	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	03/10/05	<0.25	2.2	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	06/07/05	<0.25	3.0	<0.50	0.0049	<0.001	<0.001	<0.001	NA
	09/20/05	0.40	2.9	<0.50	<0.001	<0.001	<0.001	<0.001	NA
	12/13/05	<0.25	0.71	<0.50	<0.001	<0.001	<0.001	<0.001	NA
	03/15/06	<0.25	2.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	06/08/06	<0.25	0.89	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	09/12/06	<0.25	0.45	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	<b>12/12/06</b>	<b>&lt;0.25</b>	<b>1.4</b>	<b>&lt;0.50</b>	<b>&lt;0.001</b>	<b>&lt;0.001</b>	<b>&lt;0.001</b>	<b>&lt;0.001</b>	<b>NA</b>
<b>MW-23</b>	11/19/03	5.3	1.4	<0.50	0.87	0.016	0.098	0.23	NA
	02/25/04	3.3	0.85	<0.50	0.91	0.011	0.046	0.03	0.0052*
	05/12/04	4.2	1.3	<0.50	1.1	0.013	0.046	0.048	<0.0050*
	08/26/04	5.3	0.72	<0.50	1.1	0.023	0.2	0.17	0.014*
	12/14/04	NS	NS	NS	NS	NS	NS	NS	NS
	03/08/05	NS	NS	NS	NS	NS	NS	NS	NS
	06/07/05	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	12/13/05	6.3	<0.25	<0.50	1.3	0.014	0.048	0.044	<0.0050*
	03/15/06	7.0	0.28	<0.50	1.4	0.015	0.19	0.21	<0.0050*
	06/08/06	5.2	1.30	<0.50	1.4	0.014	0.11	0.11	<0.0050*
	09/12/06	NS	NS	NS	NS	NS	NS	NS	NS
	<b>12/12/06</b>	<b>8.1</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>1.8</b>	<b>0.020</b>	<b>0.11</b>	<b>0.16</b>	<b>&lt;0.0050*</b>
<b>MW-24</b>	11/19/03	34	6.4	0.54	2.8	0.54	1.4	6	NA
	02/25/04	26	3.0	<0.50	4.3	0.085	1.0	3.3	<0.0050*
	05/12/04	NS	NS	NS	NS	NS	NS	NS	NS
	08/26/04	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/04	NS	NS	NS	NS	NS	NS	NS	NS
	03/08/05	NS	NS	NS	NS	NS	NS	NS	NS
	06/07/05	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/05	NS	NS	NS	NS	NS	NS	NS	NS
	03/15/06	26	0.34	<0.50	4.4	0.064	0.88	4.2	0.0069
	06/08/06	21	<0.25	<0.50	1.5	0.039	0.86	4.9	0.0068
	09/12/06	NS	NS	NS	NS	NS	NS	NS	NS
	<b>12/12/06</b>	<b>20</b>	<b>1.1</b>	<b>&lt;0.50</b>	<b>1.5</b>	<b>0.037</b>	<b>0.69</b>	<b>3.2</b>	<b>0.0078*</b>
<b>MW-25</b>	11/20/03	<0.25	1.3	<0.50	0.0061	<0.0005	<0.0005	<0.0005	NA
	02/26/04	0.38	8.9	<0.50	0.0011	<0.0005	0.0027	<0.0005	0.012*
	5/12/04	<0.25	1.6	<0.50	<0.0005	<0.0005	0.0034	<0.0005	<0.0050*
	08/26/04	<0.25	0.27	<0.50	0.013	<0.0005	<0.0005	<0.0005	0.034 <sup>a,b</sup>
	12/14/04	<0.25	1.4	<0.50	0.0035	<0.001	<0.001	<0.001	<0.0050*
	03/10/05	0.31	3.7	<0.50	0.0014	<0.0005	0.00064	<0.0005	<0.0050*
	06/07/05	0.40	3.2	<0.50	<0.001	<0.001	0.0014	<0.001	<0.0050*
	09/20/05	0.30	1.4	<0.50	0.0016	<0.0005	<0.0005	<0.0005	0.059 <sup>a</sup>
	12/13/05	<0.25	1.2	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*
	03/15/06	<0.25	1.0	<0.50	0.0019	<0.001	<0.001	<0.001	<0.0050*
	06/08/06	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
09/12/06	<0.25	0.31	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
<b>12/12/06</b>	<b>&lt;0.25</b>	<b>0.86</b>	<b>&lt;0.50</b>	<b>0.0052</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>	

**TABLE 2  
GROUNDWATER ANALYTICAL RESULTS**

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

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
<b>A-5</b>	02/14/02	<0.25	2.3	<0.5	0.00055	0.0017	<0.0005	<0.0005	NA
	05/22/02	<0.25	2.0	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	08/29/02	<0.25	1.2	<0.5	0.0017	0.00062	<0.0005	0.00099	NA
	11/06/02	<0.25	1.2	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	02/20/03	<0.25	<0.25	<0.5	0.00086	0.0019	<0.0005	0.001	NA
	06/10/03	0.26	0.4	<0.25	<0.0005	0.00067	<0.0005	0.0007	NA
	09/17/03	<0.25	0.60	<0.50	0.0042	<0.0005	<0.0005	<0.0005	NA
	11/20/03	<0.25	0.53	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	02/26/04	<0.25	3.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	05/12/04	0.27	0.43	<0.50	<0.0005	<0.0005	<0.0005	0.00057	NA
	08/25/04	<0.25	1.1	<0.50	0.0029	<0.0005	<0.0005	<0.0005	NA
	12/14/04	<0.25	0.43	<0.50	0.021	<0.001	<0.001	<0.001	NA
	03/10/05	0.43	5.2	<0.50	0.12	0.0025	<0.001	0.0012	NA
	06/07/05	0.54	2.4	1.70	0.12	0.0028	<0.001	0.0013	NA
	09/20/05	0.37	1.2	<0.50	0.037	0.0017	<0.001	0.0011	NA
	12/13/05	0.44	0.31	<0.50	0.049	0.0021	<0.0005	0.0013	NA
03/15/06	0.36	0.45	<0.50	0.052	0.0017	<0.001	0.0017	NA	
06/08/06	0.91	0.55	<0.50	0.099	0.0036	0.00076	0.0034	NA	
09/12/06	0.46	0.43	<0.50	0.031	0.0016	<0.001	0.0014	NA	
	<b>12/12/06</b>	<b>0.70</b>	<b>0.53</b>	<b>&lt;0.50</b>	<b>0.079</b>	<b>0.0028</b>	<b>&lt;0.001</b>	<b>0.0025</b>	<b>NA</b>
<b>A-8</b>	02/14/02	<0.25	1.6	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	05/22/02	<0.25	0.51	<0.5	<0.0005	0.00058	<0.0005	<0.0005	NA
	08/28/02	<0.25	<0.5	<0.5	<0.0005	0.0014	<0.0005	0.00066	NA
	11/06/02	<0.25	0.43	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	02/20/03	<0.25	<0.25	<0.5	<0.0005	0.00083	<0.0005	<0.0005	NA
	06/10/03	<0.25	<0.25	<0.25	<0.0005	0.00056	<0.0005	<0.0005	NA
	09/17/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	11/20/03	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	02/26/04	0.35	1.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	05/12/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	08/25/04	<0.25	4.9	<0.50	<0.001	<0.001	<0.001	<0.001	NA
	12/14/04	<0.25	1.7	<0.50	0.00056	0.00052	<0.0005	0.00094	NA
	03/10/05	<0.25	2.1	<0.50	<0.0005	<0.0005	<0.0005	0.00055	NA
	06/07/05	<0.25	1.2	1.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	09/20/05	<0.25	3.5	0.8	0.0012	<0.001	<0.001	0.0012	NA
	12/13/05	<0.25	0.54	<0.50	<0.0005	<0.0005	<0.0005	0.0011	NA
03/15/06	<0.25	0.55	<0.50	<0.001	<0.001	<0.001	<0.001	NA	
06/08/06	<0.25	0.47	<0.50	<0.001	<0.001	<0.001	<0.001	NA	
09/12/06	<0.25	0.76	<0.50	<0.001	<0.001	<0.001	0.0011	NA	
	<b>12/12/06</b>	<b>0.27</b>	<b>0.87</b>	<b>&lt;0.50</b>	<b>&lt;0.001</b>	<b>0.0011</b>	<b>&lt;0.001</b>	<b>0.0015</b>	<b>NA</b>
<b>A-10</b>	02/14/02	<0.25	9.2	<0.5	<0.0005	0.00062	<0.0005	<0.0005	NA
	05/22/02	0.31	8.8	<0.5	<0.0005	0.00086	<0.0005	<0.0005	NA
	08/28/02	0.30	15	<0.5	<0.001	<0.001	<0.001	<0.001	NA
	11/06/02	0.37	13	<0.50	<0.0005	0.00057	<0.0005	<0.0005	NA
	02/20/03	<0.25	6.0	<0.5	0.0013	<0.0005	<0.0005	0.00055	NA
	06/10/03	0.45	19	<0.25	<0.001	<0.001	<0.001	<0.001	NA
	09/17/03	0.68	30	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	11/20/03	1.1	89	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	02/26/04	<0.25	35	0.74	<0.0005	<0.0005	<0.0005	<0.0005	NA
	05/12/04	<0.25	3.5	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	08/25/04	<0.25	5.1	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA*
	12/14/04	<0.25	1.1	<0.50	0.003	<0.001	<0.001	<0.001	NA
	03/10/05	<0.25	4.6	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	06/07/05	0.3	68.0	2.10	0.00069	<0.0005	<0.0005	<0.0005	NA
	09/20/05	0.6	1.5	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	12/13/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
03/15/06	<0.25	1.7	<0.50	<0.0005	<0.0005	<0.0005	0.0005	NA	
06/08/06	<0.25	0.7	<0.50	<0.0005	<0.0005	<0.0005	0.0005	NA	
09/12/06	<0.25	0.65	<0.50	<0.0005	<0.0005	<0.0005	0.0005	NA	
	<b>12/12/06</b>	<b>&lt;0.25</b>	<b>0.98</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>NA</b>

**TABLE 2  
GROUNDWATER ANALYTICAL RESULTS**

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

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
<b>A-14</b>	12/20/00	<0.05	<0.25	<0.5	<0.001	<0.001	<0.001	<0.003	0.65
<b>A-14R</b>	02/14/02	<0.25	<0.25	<0.5	0.00061	0.0021	<0.0005	<0.0005	0.005*
	05/22/02	<0.25	<0.5	<0.5	0.00053	0.0021	<0.0005	0.00054	0.02*
	08/28/02	<0.25	<0.5	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	11/06/02	<0.25	<0.25	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	02/20/03	<0.25	<0.25	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	06/10/03	<0.25	<0.25	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	0.02*
	09/17/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.025*
	11/20/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.032*
	02/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.018*
	05/12/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0072*
	03/10/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/07/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	12/13/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	<b>12/12/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>
<b>A-21</b>	02/14/02	<0.25	<0.25	<0.5	<0.0005	0.001	<0.0005	<0.0005	<0.005*
	05/22/02	<0.25	<0.5	<0.5	0.00061	0.0017	<0.0005	0.00057	<0.005*
	08/29/02	<0.25	0.76	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	11/06/02	<0.25	0.37	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	02/19/03	<0.25	<0.5	<0.5	0.0013	0.0018	<0.0005	0.00061	<0.005*
	06/10/03	0.25	<0.25	<0.25	0.0082	0.00058	<0.0005	<0.0005	0.062*
	09/16/03	<0.25	<0.25	<0.50	0.0034	<0.0005	<0.0005	<0.0005	0.0085*
	11/19/03	0.47	<0.25	<0.50	0.061	0.0019	<0.0005	0.0029	0.0067*
	02/25/04	0.63	<0.50	<0.50	0.013	0.00066	0.045	0.0016	<0.0050*
	05/12/04	0.50	<0.25	<0.50	0.0019	<0.0005	0.0042	0.00072	<0.0050*
	08/25/04	0.26	<0.25	<0.50	0.0015	<0.0005	<0.0005	0.0015	<0.0050*
	12/14/04	0.99	<0.25	<0.50	0.061	0.0025	0.022	0.0083	<0.0050*
	03/10/05	1.5	0.26	<0.50	0.024	0.0021	0.0025	0.011	0.020*
	06/07/05	1.2	0.35	<0.50	0.0076	0.00084	0.00077	0.0043	<0.0050*
	09/20/05	1.3	<0.25	<0.50	0.011	0.0012	0.00066	0.0048	<0.0050*
	12/13/05	1.6	<0.25	<0.50	0.017	0.0016	0.0015	0.0052	<0.0050*
	03/15/06	0.97	<0.25	<0.50	0.0098	0.00097	0.0023	0.0033	<0.0050*
	06/08/06	0.82	<0.25	<0.50	0.0023	0.00059	<0.0005	0.0019	<0.0050*
	09/12/06	0.85	<0.25	<0.50	0.0019	<0.0005	<0.0005	0.0016	<0.0050*
	<b>12/12/06</b>	<b>0.85</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>0.0071</b>	<b>&lt;0.0005</b>	<b>0.0021</b>	<b>0.0014</b>	<b>&lt;0.0050*</b>
<b>A-23R</b>	02/14/02	0.26	2.1	<0.5	0.06	0.001	0.0099	0.0072	0.72 <sup>ab</sup>
	05/20/02	0.74	6.9	<0.5	0.15	<0.001	0.088	0.0067	0.095 <sup>ab</sup>
	08/28/02	0.62	2.1	<0.5	0.2	0.0035	0.021	0.0075	0.23*
	11/05/02	0.74	1.7	<0.5	0.22	<0.0015	0.0059	0.014	0.18*
	02/19/03	0.71	2.3	<0.5	0.26	0.0033	0.0054	0.0059	0.049*
	06/10/03	<0.25	1.8	<0.25	0.0073	<0.001	0.0028	<0.001	<0.005*
	09/16/03	0.70	1.3	<0.50	0.043	0.0029	0.057	0.0018	0.38*
	11/19/03	1.0	0.78	<0.50	0.08	0.0037	0.069	0.0035	0.13*
	02/25/04	1.6	0.78	<0.50	0.26	0.0072	0.061	0.015	0.081*
	05/12/04	0.28	0.45	<0.50	0.020	0.00075	0.0022	0.00082	<0.0050*
	08/25/04	2.3	0.35	<0.50	0.46	0.012	0.074	0.02	0.012*
	12/14/04	2.0	0.65	<0.50	0.37	0.0084	0.041	0.013	0.018*
	03/10/05	0.60	0.31	<0.50	0.035	0.0011	0.0045	0.0014	0.035*
	06/07/05	0.33	<0.25	<0.50	0.0080	<0.0005	0.0012	<0.0005	0.013*
	09/20/05	<0.25	<0.25	<0.50	0.00060	<0.0005	<0.0005	<0.0005	0.0096 <sup>a</sup>
	12/14/05	0.37	<0.25	<0.50	0.019	0.00056	0.00065	0.00058	0.032*
	03/15/06	1.1	<0.25	<0.50	0.34	0.0033	<0.0025	0.0051	<0.0050*
	06/08/06	0.34	<0.25	<0.50	0.033	<0.0005	<0.0005	0.031	0.0081*
	09/12/06	0.42	<0.25	<0.50	0.010	<0.0005	0.032	0.0013	0.035*
	<b>12/12/06</b>	<b>2.1</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>0.520</b>	<b>0.0066</b>	<b>0.053</b>	<b>0.021</b>	<b>&lt;0.0050*</b>
<b>Dup-1<sup>a</sup></b>	09/20/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	0.42	<0.25	<0.50	0.020	0.00064	0.00081	0.00063	0.025*
	03/15/06	1.1	<0.25	<0.50	0.310	0.0036	0.0027	0.0052	0.0099*
	06/08/06	0.33	<0.25	<0.50	0.032	<0.0005	<0.0005	0.031	0.013*
	09/12/06	0.36	<0.25	<0.50	0.009	<0.0005	0.027	0.0011	0.12*
	<b>12/12/06</b>	<b>2.2</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>0.520</b>	<b>0.0076</b>	<b>0.061</b>	<b>0.024</b>	<b>0.0077*</b>



**TABLE 2  
GROUNDWATER ANALYTICAL RESULTS**

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

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
<b>A-27</b>	02/14/02	2.9	11	<0.5	0.13	0.014	0.096	0.25	NA
	05/22/02	3.3	8.2	<0.5	0.2	0.016	0.14	0.38	NA
	08/29/02	3.8	8.1	<0.5	0.24	0.016	0.14	0.29	NA
	11/06/02	3.2	8.0	<0.5	0.16	0.016	0.065	0.14	NA
	02/19/03	3.1	6.8	<0.5	0.17	0.017	0.052	0.13	NA
	06/10/03	3.7	4.5	<0.25	0.14	0.013	0.11	0.23	NA
	09/16/03	4.5	5.6	<0.50	0.27	0.02	0.18	0.38	NA
	11/19/03	5.9	5.3	<0.50	0.25	0.023	0.13	0.33	NA
	02/25/04	4.4	16.0	<0.50	0.15	0.016	0.18	0.30	NA
	05/11/04	4.6	5.2	<0.50	0.16	0.017	0.23	0.38	NA
	08/25/04	4.7	2.5	<0.50	0.25	0.018	0.17	0.24	NA*
	12/14/04	4.5	4.4	<0.50	0.11	0.012	0.099	0.14	NA
	03/10/05	5.8	4.7	<0.50	0.14	0.015	0.16	0.22	NA
	06/07/05	4.5	7.8	<0.50	0.17	0.014	0.24	0.34	NA
	09/20/05	6.3	2.3	<0.50	0.25	0.019	0.18	0.22	NA
	12/13/05	3.7	0.83	<0.50	0.13	0.012	0.083	0.095	NA
	03/15/06	4.4	1.3	<0.50	0.13	0.017	0.19	0.24	NA
	06/08/06	4.5	1.1	<0.50	0.19	0.016	0.23	0.28	NA
	09/12/06	3.4	0.82	<0.50	0.17	0.011	0.12	0.12	NA
	<b>12/12/06</b>	<b>3.7</b>	<b>0.90</b>	<b>&lt;0.50</b>	<b>0.110</b>	<b>0.0096</b>	<b>0.10</b>	<b>0.12</b>	<b>NA</b>
<b>A-28R</b>	02/14/02	5.3	2.7	<0.5	0.66	0.027	0.42	0.2	0.035*
	05/22/02	3.1	6.7	<0.5	0.14	0.01	0.2	0.092	0.05*
	08/29/02	4	6	<0.5	0.15	0.019	0.23	0.078	0.032*
	11/06/02	3.4	1.8	<0.5	0.47	0.015	0.053	0.05	0.028*
	02/19/03	3.5	4.6	<0.5	0.46	0.015	0.051	0.05	0.013*
	06/10/03	3.7	2.9	<0.25	0.31	0.0081	0.085	0.051	0.064*
	09/16/03	3.8	2.0	<0.50	1.0	0.013	0.075	0.048	0.17*
	11/19/03	4.9	<0.25	<0.50	0.58	0.012	0.059	0.064	0.11*
	02/25/04	5.1	1.7	<0.50	0.63	0.0093	0.19	0.076	0.0080*
	05/12/04	6.5	2.6	<0.50	0.96	0.012	0.20	0.058	<0.0050*
	08/25/04	5.9	0.88	<0.50	2.1	0.018	0.05	0.053	0.043*
	12/14/04	7.6	3.0	<0.50	1.4	0.015	0.073	0.062	0.025*
	03/10/05	10	0.76	<0.50	1.9	0.019	0.077	0.064	0.0078*
	06/07/05	6	1.20	<0.50	2.1	0.015	0.069	0.048	0.0068*
	09/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	12/13/05	5.4	<0.25	<0.50	0.93	0.011	0.033	0.036	0.012*
	03/15/06	4.6	<0.25	<0.50	0.80	0.012	0.11	0.035	<0.0050*
	06/08/06	4.2	0.49	0.73	0.87	0.013	0.07	0.035	0.019*
	09/12/06	5.2	<0.25	<0.50	1.0	0.015	0.048	0.036	0.016*
	<b>12/12/06</b>	<b>4.0</b>	<b>0.57</b>	<b>&lt;0.50</b>	<b>0.30</b>	<b>0.0095</b>	<b>0.027</b>	<b>0.028</b>	<b>&lt;0.0050*</b>
<b>SH-02</b>	12/20/00	0.078	<0.25	<0.5	0.001	<0.001	<0.001	<0.003	0.015**
<b>SH-02R</b>	02/13/02	<0.25	0.56	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	05/21/02	<0.25	2.4	<0.5	0.037	<0.0005	<0.0005	<0.0005	0.005*
	08/28/02	<0.25	4.3	<0.5	0.087	0.0038	0.00061	0.0023	0.006*
	11/05/02	<0.25	1.1	<0.5	0.016	<0.0005	<0.0005	<0.0005	0.005*
	02/19/03	<0.25	<0.5	<0.5	<0.0005	0.00086	<0.0005	<0.0005	<0.005*
	06/10/03	<0.25	0.97	<0.25	<0.0005	0.00051	<0.0005	<0.0005	0.0059*
	09/16/03	<0.25	3.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.010*
	11/19/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	02/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	05/12/04	<0.25	0.74	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/26/04	<0.25	0.58	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/15/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/09/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/05	<0.25	0.31	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/21/05	<0.25	0.58	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	<0.25	0.30	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0078*
	03/14/06	<0.25	0.30	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0072*
	06/07/06	<0.25	0.59	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050*
	09/13/06	<0.25	<0.25	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050*
	<b>12/13/06</b>	<b>&lt;0.25</b>	<b>0.49</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>

**TABLE 2  
GROUNDWATER ANALYTICAL RESULTS**

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

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
<b>SH-05</b>	12/20/00	<0.05	1.0	<0.5	<0.001	<0.001	<0.003	<0.001	0.017**
<b>SH-05R</b>	05/21/02	0.71	11	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	08/28/02	0.77	10	<0.5	<0.0005	0.0015	<0.0005	<0.0005	0.006*
	11/05/02	1.4	7.1	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.008*
	02/19/03	0.8	6.8	<0.5	<0.001	0.0016	<0.001	<0.001	<0.005*
	06/10/03	1.1	45	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	0.04*
	09/16/03	<0.25	23	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.074*
	11/19/03	0.62	19	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.075*
	02/25/04	<0.25	5.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	05/12/04	0.43	4.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/26/04	0.63	3.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050
	12/15/04	0.30	10	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0056*
	03/09/05	0.78	4.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/05	0.32	4.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/21/05	0.61	2.8	1.0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	0.78	1.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/14/06	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0074*
	06/07/06	<0.25	1.4	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*
	09/13/06	0.34	0.56	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	<b>12/13/06</b>	<b>&lt;0.50</b>	<b>1.9</b>	<b>&lt;0.50</b>	<b>&lt;0.0025</b>	<b>&lt;0.0025</b>	<b>&lt;0.0025</b>	<b>&lt;0.0025</b>	<b>&lt;0.0050*</b>
<b>MW-07R</b>	02/13/02	<0.25	1.2	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.035*
	05/21/02	<0.25	2.1	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.005*
	08/28/02	<0.25	2.4	<0.5	<0.0005	0.0028	<0.0005	0.0012	0.006*
	11/05/02	<0.25	3.7	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	02/19/03	NS	NS	NS	NS	NS	NS	NS	NS
	06/10/03	NS	NS	NS	NS	NS	NS	NS	NS
	09/16/03	<0.25	1.9	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.045*
	11/19/03	<0.25	2.1	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.020*
	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	05/12/04	<0.25	0.48	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/26/04	<0.25	0.42	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA*
	12/15/04	<0.25	0.85	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0076*
	03/09/05	<0.25	0.54	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/05	<0.25	0.46	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/21/05	<0.25	0.70	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/14/06	<0.25	0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0065
	<b>12/13/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>

**Notes:**  
 < = Denotes compound was not detected at designated detection limit.  
 NA = Not analyzed for this parameter  
 NS = Not sampled  
 ^ = Dup-1 is a duplicate sample for A-23R; Dup-2 is a duplicate sample for MW-3.  
 \* = Also tested for Dissolved Lead (EPA-200.8), results are below detection limit of 0.0050 ppm.  
 \*\* = 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.  
<sup>a</sup> = Insulating oil range hydrocarbons were reported for MW-22 at concentration of 0.87 ppm.  
 TPH as gasoline - Analysis by Washington Method WTPH-G prior to 5/20/98; analysis by Northwest Method NWTTPH-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 NWTTPH-Dx from 5/20/98 through present.  
 BTEX Compounds - Analysis by EPA Method 8020 prior to 5/20/98; analysis by EPA Method 8021B from 5/20/98 through present.

**TABLE 3**  
**ANALYTICAL SUMMARY 2000 - DECEMBER 2006**  
**CURRENT GROUNDWATER COMPLIANCE PROGRAM**  
 Kinder Morgan Harbor Island Terminal

Well ID	Indicator Hazardous Substances, concentration in mg/L							
	TPH-G	Benzene	Ethylbenzene	Toluene	TPH-D	TPH-O	Total Lead	Dissolved Lead
<b>Cleanup Criteria</b>	<b>1.0</b>	<b>0.071</b>	<b>29.0</b>	<b>200.0</b>	<b>10</b>	<b>10</b>	<b>0.0058</b>	<b>--</b>
A-5	ND - 0.54	ND - 0.12, >0.071 on 12-06	ND	ND - 0.0036	ND - 5.2	ND - 1.7		
A-8	ND - 0.35	ND - 0.0012	ND	ND - 0.0014	ND - 4.9	ND - 1.5		
A-10	ND - 1.1, <1 since 02-04	ND - 0.0030	ND	ND - 0.00086	ND - 89, <10 since 09-05	ND - 2.1		
A-14R	ND	ND - 0.002	ND	ND - 0.0021	ND	ND	ND-0.032 <0.0058 since 06-05	ND
A-21	ND - 1.6, <1 since 03-06	ND - 0.061, <0.071 since 06-01	ND - 0.045	ND - 0.0025	ND - 0.76	ND	ND-0.062 <0.0058 since 06-05	ND
A-23R	ND - 2.3, >1 on 12-06	0.00060 - 0.46, >0.071 on 12-06	ND - 0.088	ND - 0.012	ND - 6.9	ND	ND - 0.72 <0.0058 since 09-06	detected
A-27	2.0 - 6.3, >1 on 12-06	0.11 - 0.27	0.04 - 0.24	0.009 - 0.023	0.83 - 16, <10 since 05-04	ND		
A-28R	3.1 - 10	0.14 - 2.1	0.033 - 0.42	0.0081 - 0.027	ND - 6.7	ND	ND - 0.17 <0.0058 since 12-06	ND
MW-1	ND - 0.83	ND - 0.0013	ND - 0.0020	ND - 0.0067	ND - 2.0	ND	ND - 0.021 <0.0058 since 02-03	ND
MW-2	ND	ND	ND	ND - 0.00071	ND - 0.91	ND	ND - 0.062 since 09-06	detected
MW-3	ND - 45, <1 since 02-02	ND - 0.36, <0.071 since 02-03	ND - 0.23	ND - 0.18	ND - 17, <10 since 12-00	ND - 0.68	ND - 0.042 <0.0058 since 03-05	ND
MW-4	ND - 3.3, <1 since 06-03*	ND - 1.1, <0.071 since 02-03	ND - 0.034	ND - 0.023	1.1 - 280, <10 since 12-05	ND - 2.6		
MW-5	ND - 0.13	ND - 0.019	ND	ND - 0.0018	ND - 1.6	ND	ND - 0.11 >0.0058 on 12-06	ND
MW-6	ND - 1.1, <1 since 03-06	ND - 0.19, <0.071 since 09-01	ND - 0.0050	ND - 0.0070	ND - 7.3	ND	ND - 0.052 since 03-05	ND
MW-7	0.26 - 18, >1 on 09-06	ND - 0.34, >0.071 on 09-06	ND - 0.69	ND - 0.37	ND - 21, <10 since 12-04	ND - 0.81	0.0083 - 0.23 >0.058 on 09-06	detected
MW-8	ND	ND - 0.0013	ND	ND - 0.00086	0.54 - 42, <10 since 03-01	ND - 2.9	ND - 0.069 <0.0058 since 12-06	ND
MW-9	ND - 10, >1 on 12-06	ND - 0.038	0.020 - 0.23	0.0034 - 0.049	1.2 - 39, <10 since 05-04	ND - 0.72	ND - 0.053 >0.0058 on 12-06	ND
MW-12R	ND - 0.56	ND - 0.26, <0.071 since 12-04	ND	ND - 0.0059	ND - 2.5	ND	ND - 0.013 <0.0058 since 05-04	ND
MW-13R	ND	ND - 0.056	ND	ND - 0.0032	ND - 3.5	ND	ND - 0.012 <0.0058 since 05-04	ND
MW-14	ND - 6.8, >1 on 12-06	ND - 0.48, <0.071 since 02-04	0.019 - 0.26	ND - 0.014	2.0 - 37, <10 since 12-05	ND - 1.1		
MW-16	ND - 0.88	ND - 0.029	ND - 0.0010	ND - 0.0037	ND - 1.7	ND		
MW-18	ND - 7.6, <1 since 09-06	ND - 1.8, <0.071 since 09-06	ND - 0.29	ND - 0.067	ND - 0.77	ND		
MW-19	4.2 - 68	ND - 1.4, <0.071 since 06-06	0.16 - 1.1	0.12 - 4.0	0.72 - 19, <10 since 08-04	ND		
MW-20	ND - 1.8, <1 since 03-01	ND - 0.68, <0.071 since 02-02	ND - 0.067	ND - 0.020	ND - 5.0	ND - 0.7		
MW-21	ND - 4.3, SPH on 12-06	ND	ND - 0.019	ND - 0.006	6.1 - 140, SPH on 12-06	ND - 3.3 SPH on 12-06		
MW-22	ND - 5.1, <1 since 11-02	ND - 1.9, <0.071 since 02-03	ND - 0.35	ND - 0.097	0.61 - 9.2	ND - 0.87		
SH-02R	ND - 0.078	ND - 0.087, <0.071 since 11-02	ND - 0.00061	ND - 0.0038	ND - 4.3	ND	ND - 0.010 <0.0058 since 06-06	ND
SH-05R	ND - 1.4, <1 since 09-03	ND	ND	ND - 0.0016	1.3 - 45, <10 since 03-05	ND - 1.0	ND - 0.075 <0.0058 since 03-05	ND
MW-07R	ND	ND	ND	ND - 0.0028	ND - 3.7	ND	ND - 0.045 <0.0058 since 12-06	ND
MW-23	SPH, 4.2 - 7.0 >1 on 12-06	0.87 - 1.4 >0.071 on 12-06	0.046 - 0.19	0.011 - 0.023	SPH, ND - 1.4	ND	ND - 0.014 <0.0058 since 12-05	ND
MW-24	SPH, 26 - 34	2.8 - 4.4	0.88 - 1.4	0.064 - 0.54	SPH, 0.34 - 6.4	ND - 0.54	ND - 0.0069 >0.0058 on 12-07	ND
MW-25	ND - 0.40	ND - 0.013	ND - 0.0034	ND	0.27 - 8.9	ND	ND - 0.034	detected

**Notes:** \* ND but detection limit > 1 during 2 events in 2005

  Recommend reduction in monitoring frequency and/or parameters

  Parameter not analyzed

**TABLE 4**  
**PROPOSED GROUNDWATER COMPLIANCE PROGRAM**  
**RECOMMENDED MONITORING FREQUENCY**  
Kinder Morgan Harbor Island Terminal

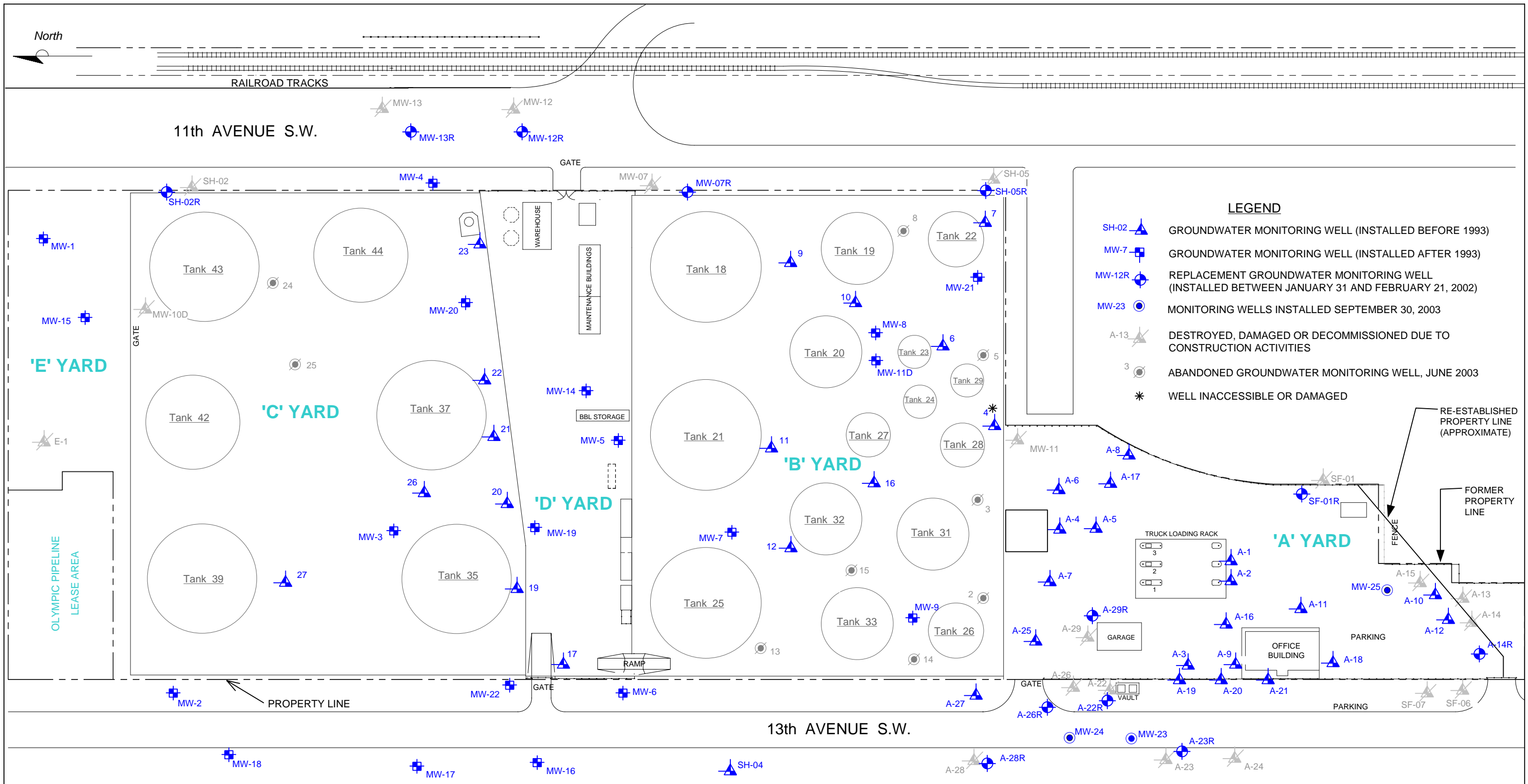
Well ID	Indicator Hazardous Substances				Natural Attenuation Parameters				
	TPH-G/ BTEX	TPH-D/TPH-O	Total Lead	Dissolved Lead	Nitrate (NO3)	Ferrous Iron	Methane	Sulfate (SO4)	Sulfide (H2S)
A-5	Quarterly	Discontinue							
A-8	Annual	Annual							
A-10	Annual	Annual			Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
A-14R	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
A-21	Quarterly	Discontinue	Annual	Discontinue	Annual	Annual	Annual	Annual	Annual
A-23R	Quarterly	Discontinue	Annual	Annual	Annual	Annual	Annual	Annual	Annual
A-27	Quarterly	Discontinue			Annual	Annual	Annual	Annual	Annual
A-28R	Quarterly	Discontinue	Annual	Discontinue	Annual	Annual	Annual	Annual	Annual
MW-1	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-2	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-3	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-4	Annual	Annual			Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-5	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-6	Quarterly	Discontinue	Annual	Discontinue	Annual	Annual	Annual	Annual	Annual
MW-7	Quarterly	Discontinue	Annual	Annual	Annual	Annual	Annual	Annual	Annual
MW-8	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-9	Quarterly	Discontinue	Annual	Discontinue	Annual	Annual	Annual	Annual	Annual
MW-12R	Annual	Annual	Annual	Discontinue					
MW-13R	Annual	Annual	Annual	Discontinue					
MW-14	Quarterly	Discontinue			Annual	Annual	Annual	Annual	Annual
MW-16	Annual	Annual							
MW-18	Quarterly	Discontinue							
MW-19	Quarterly	Discontinue			Annual	Annual	Annual	Annual	Annual
MW-20	Annual	Annual			Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-21	Quarterly	Quarterly			Annual	Annual	Annual	Annual	Annual
MW-22	Annual	Annual			Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
SH-02R	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
SH-05R	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-07R	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-23	Quarterly	Discontinue	Annual	Discontinue	Annual	Annual	Annual	Annual	Annual
MW-24	Quarterly	Discontinue	Annual	Discontinue	Annual	Annual	Annual	Annual	Annual
MW-25	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue

**Notes:**   Recommended reduced monitoring frequency

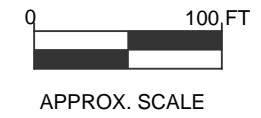
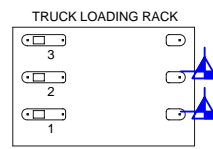
  Parameter not analyzed

**TABLE 5**  
**PROPOSED ANNUAL ANALYSES**  
**GROUNDWATER COMPLIANCE PROGRAM**  
 Kinder Morgan Harbor Island Terminal

Well ID	Indicator Hazardous Substances				Natural Attenuation Parameters				
	TPH-G/ BTEX	TPH-D+ extended	Total Lead	Dissolved Lead	Nitrate (NO3)	Ferrous Iron	Methane	Sulfate (SO4)	Sulfide (H2S)
A-5	4	0							
A-8	1	1							
A-10	1	1			0	0	0	0	0
A-14R	1	1	1	0	0	0	0	0	0
A-21	4	0	1	0	1	1	1	1	1
A-23R	4	0	1	1	1	1	1	1	1
A-27	4	0			1	1	1	1	1
A-28R	4	0	1	0	1	1	1	1	1
MW-1	1	1	1	0	0	0	0	0	0
MW-2	1	1	1	0	0	0	0	0	0
MW-3	1	1	1	0	0	0	0	0	0
MW-4	1	1			0	0	0	0	0
MW-5	1	1	1	0	0	0	0	0	0
MW-6	4	0	1	0	1	1	1	1	1
MW-7	4	0	1	1	1	1	1	1	1
MW-8	1	1	1	0	0	0	0	0	0
MW-9	4	0	1	0	1	1	1	1	1
MW-12R	1	1	1	0					
MW-13R	1	1	1	0					
MW-14	4	0			1	1	1	1	1
MW-16	1	1							
MW-18	4	0							
MW-19	4	0			1	1	1	1	1
MW-20	1	1			0	0	0	0	0
MW-21	4	4			1	1	1	1	1
MW-22	1	1			0	0	0	0	0
SH-02R	1	1	1	0	0	0	0	0	0
SH-05R	1	1	1	0	0	0	0	0	0
MW-07R	1	1	1	0	0	0	0	0	0
MW-23	4	0	1	0	1	1	1	1	1
MW-24	4	0	1	0	1	1	1	1	1
MW-25	1	1	1	0	0	0	0	0	0
<b>Annual Total</b>	74	22	20	2	12	12	12	12	12



- 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-23 ● MONITORING WELLS INSTALLED SEPTEMBER 30, 2003
  - A-13 ▲ DESTROYED, DAMAGED OR DECOMMISSIONED DUE TO CONSTRUCTION ACTIVITIES
  - 3 ● ABANDONED GROUNDWATER MONITORING WELL, JUNE 2003
  - \* WELL INACCESSIBLE OR DAMAGED



**FIGURE 1  
SITE MAP  
KINDER MORGAN LIQUID TERMINALS, LLC  
HARBOR ISLAND TERMINAL  
2720 13<sup>th</sup> AVENUE SOUTHWEST  
SEATTLE, WASHINGTON**

PROJECT NO. STKM-001-M.0005	DRAWN BY DL March 2007	
FILE NO. STKM-001-M.0005	PREPARED BY DL March 2007	
REVISION NO. 0	REVIEWED BY WC	

September 4, 2008

Mr. Roger Nye  
Washington State Department of Ecology  
Northwest Regional Office  
3190 160<sup>th</sup> Avenue N.E.  
Bellevue, Washington 98008-5452

Sent via FedEx Saver

SUBJ: Technical Revision Request – Low-Flow Groundwater Sampling  
Kinder Morgan Harbor Island Terminal  
Seattle, Washington  
Delta Project No. STKM-001-P.0005



Dear Mr. Nye:

Delta Consultants (Delta) has prepared this request on behalf of Kinder Morgan Liquid Terminals, LLC (KMLT) to propose a technical revision to Appendix A (Compliance Sampling and Analysis Plan) of the Compliance Monitoring Plan, dated October 27, 1999. This letter request supersedes a previous request, dated July 16, 2008. The Compliance Monitoring Plan was included as Appendix F of the Model Toxics Control Act (MTCA) Consent Decree 00-2-07760-25EA, which was executed to implement remedial actions for the site. As discussed in a March 31, 2008 telephone conversation with you, KMLT is proposing a revision to Section 2.3.2, Sampling Procedures, of the Compliance Sampling and Analysis Plan (Plan) to replace the purge-sampling methodology with low-flow sampling techniques.

#### **CURRENT PURGE-SAMPLING PROCEDURES**

Sampling ground water traditionally involves purging a monitoring well to remove stagnant water in the well casing prior to sampling. The current sampling procedure incorporated into the Plan includes purging three to five volumes of the well prior to collecting a groundwater sample. This well evacuation approach can pose several problems, including: 1) as the well recovers, groundwater cascading in the well screen can affect contaminant and dissolved gas concentrations; 2) draining water from the sand pack surrounding the screen can result in air being trapped in the pore spaces, also affecting dissolved gas concentrations; and 3) increased turbidity can affect total and dissolved metal concentrations.

In the Revised Site-Wide Groundwater Compliance Monitoring Plan, dated June 21, 2007, Delta presented an evaluation of historical groundwater analytical results with respect to established cleanup criteria. During the preparation of the Revised Plan, Delta and Ecology discussed the periodic occurrence of dissolved lead in the wells sampled. These occurrences appeared to be random, with no apparent trend to the occurrence.

a member of:



At the time, it was mentioned that turbulence created during sampling may have caused the occurrence of dissolved lead. Eliminating turbulence during sampling may end or reduce this occurrence.

## **PROPOSED LOW-FLOW SAMPLING PROCEDURES**

Low-flow/low-volume sampling is a method that can be used to overcome many of the problems created by traditional purge-sampling. Low-flow sampling can minimize turbidity and minimize groundwater chemistry alteration. By pumping at very low flowrates from the well screen zone, disturbance to the water column in the well is significantly reduced and stress on the surrounding formation is minimized. Samples obtained in this manner will better reflect contaminant concentrations and ground-water chemistry at ambient flow conditions.

### **Sampling Procedures**

KMLT proposes to replace Section 2.3.2 of the Compliance Sampling and Analysis Plan with the following low-flow procedures for sampling the site's compliance wells.

#### Water Level Measurements

Water level measurements will be taken prior to purging and will be recorded to the nearest 0.01 foot. Measurements will be taken from least contaminated wells first followed by wells in increasing order of contamination. If product is observed, the thickness will be measured with an electronic oil/water interface meter. Wells with measurable product will not be purged or sampled.

#### Monitoring Well Purging

Purging will be conducted in a manner such that water levels do not drop more than two feet below static. Wells will be purged using dedicated downhole tubing connected to a surface portable peristaltic pump. The pump rate will be monitored and set at a rate of less than 1,000 ml/min. During purging, the following parameters will be monitored: dissolved oxygen, pH, specific conductance, temperature, turbidity, and depth to water. Field parameters will be measured in a flow-through container. Water level data will be collected with an electronic indicator probe. Measurements will be taken beginning with the first water purged from the well. During purging, additional measurements will be taken and recorded as frequently as possible. Measurements will be recorded to the following standards: dissolved oxygen to 0.05 mg/L; pH to  $\pm 0.01$  units; specific conductance to  $\pm$  uS/cm (measured specific conductance  $\leq 99$  uS/cm), to  $\pm 10$  uS/cm ( $99$  uS/cm < specific conductance < 1,000 uS/cm), or to  $\pm 100$  uS/cm (measured specific conductance > 1,000 uS/cm); temperature to  $\pm 0.5^\circ\text{C}$ ; and turbidity to 0.1 NTU. The meters will be calibrated near the beginning and end of each sampling day.

Groundwater samples will be collected after specific conductance and dissolved oxygen measurements are within 10 percent for 3 consecutive readings.

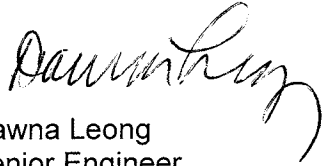
#### Sample Collection

Following purging, samples will be collected for laboratory analyses. Samples will be pumped directly into laboratory-supplied sample containers, and each sample bottle will be labeled with the sample identification number, the sample date, the facility name, and the name of the technician who performed the sampling. Samples will be collected in the following order: TPH-G/BTEX, methane (if analyzed, TPH-Dx, metals (if analyzed), and field analytes (if analyzed). Duplicate samples will be collected by alternately filling the sample and the duplicate sample bottles.

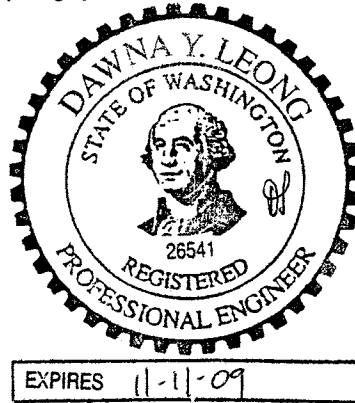


KMLT proposes to implement the low-flow sampling procedures described herein upon approval from Ecology. Please call if you have any questions regarding the contents of this letter, or if you would like to discuss any aspect of the proposed sampling procedures. Delta looks forward to your approval of this proposal.

Sincerely,  
DELTA CONSULTANTS, INC.



Dawna Leong  
Senior Engineer



cc: Mr. Robert Truedinger, Kinder Morgan Energy Partners, L.P., Richmond, California (Electronic Copy)  
Ms. Kelsy Hardy, Kinder Morgan Energy Partners, L.P., Orange, California (File Copy - CD Only)



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

August 7, 2007

Robert Truedinger  
Remediation Project Manager  
Kinder Morgan Energy Partners  
1140 Canal Boulevard  
Richmond, CA 94804

Re: Reduced Groundwater Monitoring Plan

Dear Mr. Truedinger:

This letter is to indicate the Department of Ecology's approval of the Site-Wide Groundwater Compliance Monitoring Plan – Proposed Reduced Monitoring, as presented in Delta Environmental Consultants' submittal dated June 21, 2007.

Sorry that this approval has taken awhile. Further adjustments / reductions in the monitoring may be appropriate in the future.

Sincerely,

A handwritten signature in cursive script that reads "Roger K. Nye".

Roger K. Nye  
Project Coordinator

cc: Ward Crell, Dawna Leong: Delta Environmental Consultants





**Attachment B**

Groundwater Monitoring Field  
Data Sheets



# ARCADIS

Site ID: KMLT - Harbor Island

Project #: WA000804.0000.00003

Site Address: 2720 13th Ave SW, Seattle, WA

Date: 2-27-2013

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thickness	DTW	TD	Notes
A-4	Gauged on		2/28/2013		6.69	NM	20.9 ppm
A-5					7.59	14.81	15.9 ppm
A-6					6.54	23.82	93.8 ppm
A-8					8.71	24.80	72.3 ppm
A-10					6.64	24.19	0.0 ppm
A-11					7.42	24.60	0.0 ppm
A-12					6.32	23.32	0.0 ppm
A-14R					7.38	14.93	0.0 ppm
A-16					7.66	14.97	16.8 ppm
A-18					7.72	13.41	0.0 ppm
A-19					7.68	14.02	0.0 ppm
A-20					7.21	13.53	0.0 ppm
A-21					7.32	14.30	0.0 ppm
A-22R					7.38	14.55	815 ppm
A-23R					8.45	15.80	0.0 ppm
A-25					7.18	13.87	85.4 ppm
A-26R					7.42	14.44	277 ppm
A-27					10.28	13.06	175 ppm



Site ID: KMLT - Harbor Island

Project #: WA000804.0000.00003

Site Address: 2720 13th Ave SW, Seattle, WA

Date: 2-27-2013

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thickness	DTW	TD	Notes
A-28R					7.78	14.29	680 ppm
12					1.43	7.52	0.0 ppm
MW-07R					5.84	12.74	0.0 ppm
MW-1					5.24	13.08	0.0 ppm
MW-2					6.59	12.86	0.0 ppm
MW-3					2.23	13.20	0.0 ppm
MW-4					6.02	14.25	2.6 ppm
MW-5					2.20	13.19	0.0 ppm
MW-6					6.59	13.00	0.8 ppm
MW-7					2.33	12.42	0.0 ppm
MW-8					2.98	13.08	0.0 ppm
MW-9					2.71	12.95	1.3 ppm
MW-12R					7.02	14.29	0.0 ppm
MW-13R			A banded				
MW-14					2.66	13.54	0.0 ppm
MW-16					6.18	14.05	0.0 ppm
MW-18					6.43	13.59	0.0 ppm
MW-19					2.18	12.93	9.8 ppm



Site ID: KMLT - Harbor Island

Project #: WA000804.0000.00003

Site Address: 2720 13th Ave SW, Seattle, WA

Date: 2-27-2013

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thickness	DTW	TD	Notes
MW-20					2.60	11.69	0.0 ppm
MW-21					2.61	11.66	0.0 ppm
MW-22					7.42	13.30	0.0 ppm
MW-23					7.23	14.81	304 ppm
MW-24					7.34	14.81	351 ppm
SH-02R					5.01	14.49	0.0 ppm
SH-05R					6.77	14.71	0.0 ppm
TMW-B1					7.20	14.70	435 ppm

# ARCADIS Groundwater Sampling Form

A-5

Project No. WA000804.0002.00003

Well ID ~~10101~~ ~~A-21~~ EP

Page      of     

Date 02/28/13

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather     

Measuring Pt. TOC

Screen 4'-14'

Casing 24"

Well Material X PVC

Description TOC

Setting (ft-bmp) 14.81'

Diameter (in.) 24"

     SS

Static Water Level (ft-btoc) 7.64'

Total Depth (ft-btoc) 14.30'

Water Column/ Gallons in Well     

Initial PID Reading (ppm) 00

TOC Elevatio: NA

Pump Intake (ft-btoc) 9'

Purge Method: Low-flow

Sample Method Low-flow

Pump On/Off 1413/1440

Volumes Purged NM

Centrifugal     

Submersible     

Other     

Sample Time: Label 1435

Replicate/ Code No. NA

Sampled by KHVEE

Start 1435

End 1440

Stabilized Range:

~.5 ft

0.1

3%

10%

3%

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhes) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1421	3	200	7.66'	0.1	6.78	828	—	0.05	12.74	-50.9	Clear	None
1424	6	200	7.67'	0.15	6.80	832	—	0.05	12.77	-58.5	Clear	None
1427	9	200	7.67'	0.2	6.82	839	—	0.05	12.87	-70.2	"	"
1430	12	200	7.67'	0.25	6.82	840	—	0.04	12.90	-73.6	"	"

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: 13th Ave

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: NM



# ARCADIS Groundwater Sampling Form

Project No. WA000804.0002.00003 Well ID A-21 Page 2-28-2013 of 1  
 Date 2-28-2013  
 Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather Rainy  
 Measuring Pt. TOC Screen — Casing Diameter (in.) 4 Well Material  PVC  SS  
 Description TOC Setting (ft-bmp) — Water Column/ Gallons in Well 4.56 Initial PID Reading (ppm) 0.0  
 Static Water Level (ft-btoc) 7.31 Total Depth (ft-btoc) 14.30 Purge Method:  Low-flow  Centrifugal  Submersible  Other   
 TOC Elevation NA Pump Intake (ft-btoc) 11 Sample Method Low-flow  
 Pump On/Off 14:00 / 14:25 Volumes Purged — Sampled by KH/EE  
 Sample Time: Label 14:20 Replicate/ Code No. —  
 Start 14:15  
 End 14:20

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
14:05	0	200	7.31	0	6.70	25.86	—	0.27	10.40	52.0	clear	none
14:08	3	1	7.31	0.1	6.70	26.07	—	0.11	10.40	43.9	1	1
14:11	6	1	7.31	0.2	6.68	26.32	—	0.04	10.40	33.3	1	1
14:14	9	1	7.31	0.3	6.70	26.59	—	0.04	10.43	26.5	1	1

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			

**Well Casing Volumes**  
 Gallons/Foot 1" = 0.04 1.5" = 0.09 2.5" = 0.26 3.5" = 0.50 6" = 1.47  
 1.25" = 0.08 2" = 0.162 3" = 0.37 4" = 0.653

**Well Information**  
 Well Location: In Front of Office Well Locked at Arrival: Yes /  No  
 Condition of Well: Good Well Locked at Departure: Yes /  No  
 Well Completion:  Flush Mount /  Stick Up Key Number To Well: N/A





# ARCADIS Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.0002.00003

Well ID A-23R

Date 2-27-2013

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather Rainy

Measuring Pt. TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2

Well Material X PVC — SS

Static Water Level (ft-btoc) 8.45 Total Depth (ft-btoc) 15.80 Water Column/ Gallons in Well —

Initial PID Reading (ppm) 0.0

TOC Elevator NA Pump Intake (ft-btoc) 12 Purge Method: Low-flow

Sample Method Low-flow

Pump On/Off — Volumes Purged — Centrifugal — Submersible — Other —

Sample Time: Label 15:30 Replicate/ Code No. —  
 Start 15:25  
 End 15:30

Sampled by KH/EE

Stabilized Range: 250 ~5 ft

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1512	0	250	2.52	<0.1	6.94	21.44	—	0.04	10.60	138	Clear	None
1515	3	250	2.54	0.2	6.02	21.65	—	0.02	10.85	120.4		
1518	6	250	2.54	0.25	6.05	21.44	—	0.02	10.90	122.5		
1521	9	250	2.54	0.3	6.09	22.17	—	0.02	10.44	116.7		

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			

**Well Casing Volumes**

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.08	2" = 0.162	3" = 0.37	4" = 0.653	

**Well Information**

Well Location: GES Yard at Terminal 18 Well Locked at Arrival: Yes / No

Condition of Well: Good Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: NA

# ARCADIS Groundwater Sampling Form

Project No. WA000804.0002.00003 Well ID A-27 Page      of       
 Date 2-28-2013  
 Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather Rainy  
 Measuring Pt. TOC Screen      Casing Diameter (in.) 4 Well Material X PVC  
 Description TOC Setting (ft-bmp)                          SS  
 Static Water Level (ft-bloc) 10.29 Total Depth (ft-bloc) 13.06 Water Column/ Gallons in Well 1.91 Initial PID Reading (ppm) 175  
 TOC Elevator: NA Pump Intake (ft-bloc) 11.5 Purge Method: Low-flow Sample Method Low-flow  
 Pump On/Off 11:05/11:30 Volumes Purged ~0.4 gallons Centrifugal      Submersible      Other       
 Sample Time: Label 11:25 Replicate/ Code No.      Sampled by KWEE  
 Start 11:22 End 11:25

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
11:08	0	200	10.29	0	6.27	0.318	-	2.45	11.17	44.9	clear	odorless
11:11	3		10.31	0.1	6.27	0.319	-	1.33	11.25	38.5		
11:14	6		10.29	0.2	6.27	0.320	-	1.21	11.29	36.7		
11:17	9		10.32	0.3	6.27	0.321	-	1.13	11.32	32.9		
11:20	12		10.34	0.4	6.28	0.319	-	1.14	11.30	29.2		

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			

**Well Casing Volumes**  
 Gallons/Foot: 1" = 0.04, 1.25" = 0.06, 1.5" = 0.09, 2" = 0.162, 2.5" = 0.26, 3" = 0.37, 3.5" = 0.50, 4" = 0.653, 6" = 1.47

**Well Information**  
 Well Location: 13th Ave Row Well Locked at Arrival: Yes / No  
 Condition of Well: Good Well Locked at Departure: Yes / No  
 Well Completion: Flush Mount / Stick Up Key Number To Well: NA



# ARCADIS Groundwater Sampling Form

Project No. WA000804.0002.00003 Well ID A-28R Page      of       
 Date 2-28-2013  
 Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather Rainy  
 Measuring Pt. TOC Screen      Casing      Well Material X PVC  
 Description      Setting (ft-bmp)      Diameter (in.) 2 SS  
 Static Water Level (ft-btoc) 7.73 Total Depth (ft-btoc) 14.29 Water Column/ Gallons in Well 1.06 Initial PID Reading (ppm) 680  
 TOC Elevation NA Pump Intake (ft-btoc) 11 Purge Method: Low-flow Sample Method Low-flow  
 Pump On/Off 11:40 / 12:00 Volumes Purged ~0.8 gallons Centrifugal      Submersible      Other       
 Sample Time: Label 11:55 Replicate/ Code No.      Sampled by KH/EE  
 Start 11:53 End 11:55

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
11:41	0	200	7.73	0	6.33	0.629	-	0.65	11.41	50.1	clear	undetectable
11:44	3		7.73	0.1	6.33	0.629	-	1.06	11.47	36.2		
11:47	6		7.73	0.2	6.33	0.630	-	1.21	11.51	26.3		
11:50	9		7.73	0.3	6.33	0.631	-	1.11	11.57	29.4		
11:53	12		7.73	0.4	6.34	0.632	-	1.06	11.52	25.8		

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			

**Well Casing Volumes**

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

**Well Information**

Well Location: 13th Ave NW Well Locked at Arrival: Yes / No  
 Condition of Well: Good Well Locked at Departure: Yes / No  
 Well Completion: Flush Mount / Stick Up Key Number To Well: NA



# ARCADIS Groundwater Sampling Form

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Project No. WA000804.0002.00003

Well ID MW-6

Date 2-28-2013

Project Name/Locator 2720 13th Ave SW Seattle, WA 98134

Weather Rainy

Measuring Pt. Screen —  
 Description TOC Setting (ft-bmp) —

Casing Diameter (in.) 4

Well Material X PVC  
SS

Static Water Level (ft-btoc) 6.28 Total Depth (ft-btoc) 13.00

Water Column/ Gallons in Well 7.08 <sup>214</sup> 8.91

Initial PID Reading (ppm) 0.0

TOC Elevator NA Pump Intake (ft-btoc) 10

Purge Method: Low-flow  
 Centrifugal —  
 Submersible —  
 Other —

Sample Method Low-flow

Pump On/Off 10:05/10:25 Volumes Purged ~0.4 gal's

Sample Time: Label 10:20 Replicate/ Code No. —  
 Start 10:15  
 End 10:20

Sampled by KH/EE

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Stabilized Range:		Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
					~5 ft	0.1					Color	Odor
					3%	10%						
10:05	0	100	6.24	0	pH 6.21	Cond. (µMhos) (mS/cm) 0.350	—	0.45	10.95	83.0	clear	none
10:08	3	1	6.28	0.1	pH 6.21	Cond. (µMhos) (mS/cm) 0.351	—	0.44	10.86	83.0	1	1
10:11	6	1	6.28	0.2	pH 6.23	Cond. (µMhos) (mS/cm) 0.353	—	0.52	10.85	81.5	1	1
10:14	9	1	6.28	0.3	pH 6.24	Cond. (µMhos) (mS/cm) 0.352	—	0.50	10.85	80.8	1	1

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: 13th Ave NW

Condition of Well: good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: NA



# ARCADIS Groundwater Sampling Form

Project No. WA000804.0002.00003

Well ID MW-7

Page      of     

Date 02/28/13

Project Name/Locator 2720 13th Ave SW Seattle, WA 98134

Weather Rain, 50%

Measuring Pt. Description TOC  
Screen Setting (ft-bmp) 3'-13"  
Casing Diameter (in.) 4"

Well Material X PVC  
SS

Static Water Level (ft-btoc) 1.86  
Total Depth (ft-btoc) 12.92  
Water Column/ Gallons in Well /

Initial PID Reading (ppm) 0.0

TOC Elevator NA  
Pump Intake (ft-btoc) 28"  
Purge Method: Low-flow  
Centrifugal  
Submersible  
Other

Sample Method Low-flow

Pump On/Off 1128/1150  
Volumes Purged NM  
Sample Time: Label 1145  
Start 1145  
End 1150  
Replicate/ Code No. NA

Sampled by KHEE

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1131	3	300	1.87	<0.1	6.29	98	—	0.04	10.72	57.8	Clear	None
1134	6	300	1.87	0.15	6.24	97	—	5.05	10.90	60.2	"	"
1137	9	300	1.88	0.2	6.26	99	—	0.01	10.94	63.8	"	"
1140	12	300	1.88	0.25	6.26	98	—	0.01	10.93	64.3	"	"

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			

**Well Casing Volumes**

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

**Well Information**

Well Location: B Yard  
Condition of Well: Good  
Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No  
Well Locked at Departure: Yes / No  
Key Number To Well: NM

# ARCADIS Groundwater Sampling Form

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Project No. WA000804.0002.00003

Well ID MW-9

Date 02/28/13 <sup>Am, 509</sup>

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather 02/28/13

Measuring Pt. TOC Screen Setting (ft-bmp) 3<sup>1</sup>-13<sup>1</sup> Casing Diameter (in.) 4 1/2 Well Material X PVC  
                                   SS

Static Water Level (ft-bloc) 2.25 Total Depth (ft-bloc) 12.95 Water Column/Gallons in Well 1 Initial PID Reading (ppm) 1.3

TOC Elevation NA Pump Intake (ft-bloc)      Purge Method: Low-flow Sample Method Low-flow  
               Centrifugal     

Pump On/Off 1240/1300 Volumes Purged      Submersible       
               Other     

Sample Time: Label 1255 Replicate/ Code No. NA Sampled by KH/E  
 Start 1255  
 End 1300

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1243	3	300	2.27	0.1	6.20	42	—	0.12	9.03	105.3	Clear	None
1246	6	300	2.29	0.15	6.60	41	—	0.05	9.05	105.8	"	"
1249	9	300	2.31	0.2	6.57	40	—	0.05	9.07	106.4	"	"
1252	12	300	2.34	0.25	6.48	45.9	—	0.03	9.07	100.2	"	"

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			

**Well Casing Volumes**

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

**Well Information**

Well Location: 3rd 3000 Well Locked at Arrival: Yes / No

Condition of Well: Flush Mount Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: NA



# ARCADIS Groundwater Sampling Form

Project No. WA000804.0002.00003

Well ID MW-14

Date 03/28/18

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather Rain, CS

Measuring Pt. TOC  
 Screen Setting (ft-bmp) 4'-14'

Casing Diameter (in.) 4"

Well Material  PVC  
 SS

Static Water Level (ft-btoc) 2.47  
 Total Depth (ft-btoc) 13.54

Water Column/  
 Gallons in Well 1

Initial PID Reading (ppm) 0.0

TOC Elevation NA  
 Pump Intake (ft-btoc) 4'

Purge Method:  Low-flow

Sample Method  Low-flow

Pump On/Off 0952/1010  
 Volumes Purged NM

Centrifugal  
 Submersible  
 Other

Sample Time: Label 0952  
 Start 0952  
 End 1010  
 Replicate/Code No. NA

Sampled by KH/E

Stabilized Range: ~.5 ft 0.1 3% 10% 3%

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
0958	3	250	2.47	50.1	6.42	182	---	0.07	10.11	154.6	Clear	None
0959	6	250	2.48	0.15	6.42	183	---	0.07	10.15	154.7	Clear	None
1003	9	250	2.49	0.3	6.43	183	---	0.07	10.17	154.6	Clear	None

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: D Yard

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: NM



# ARCADIS Groundwater Sampling Form

Page      of     

Project No. WA000804.0002.00003

Well ID MW-18

Date 2-28-2013

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather Rainy

Measuring Pt.      Screen       
Description TOC Setting (ft-bmp)     

Casing Diameter (in.) 2

Well Material  PVC  SS

Static Water Level (ft-bloc) 6.41 Total Depth (ft-bloc) 13.59

Water Column/ Gallons in Well 1.16

Initial PID Reading (ppm) 0.0

TOC Elevator NA Pump Intake (ft-bloc) 8

Purge Method:  Low-flow

Sample Method Low-flow

Pump On/Off 9:30 / 9:55 Volumes Purged ~0.5 gallons

Centrifugal  Submersible  Other

Sample Time: Label 9:55 Replicate/ Code No.       
Start 9:50  
End 9:55

Sampled by KHEE

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Stabilized Range:			Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
					~5 ft	0.1	3%				10%	3%
9:35	0	700	6.41	0	6.50	0.288	—	0.32	11.55	112.5	Clear	none
9:38	3		6.41	0.1	6.53	0.286	—	0.69	11.62	114.1		
9:41	6		6.41	0.3	6.53	0.258	—	0.29	11.59	107.9		
9:44	9		6.42	0.4	6.52	0.246	—	0.21	11.55	92.9		
9:47	12		6.42	0.5	6.51	0.240	—	0.20	11.65	91.1		

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			

**Well Casing Volumes**

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

**Well Information**

Well Location: 13th Ave NW Well Locked at Arrival: Yes /  No

Condition of Well: Good Well Locked at Departure: Yes /  No

Well Completion:  Flush Mount /  Stick Up Key Number To Well: NA



# ARCADIS Groundwater Sampling Form

Project No. WA000804.0002.00003 Well ID MW-19 Page 02/28/13 of       
 Date 02/28/13  
 Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather Rainy, 50s  
 Measuring Pt. TOC Screen Setting (ft-bmp) 8'-15' Casing Diameter (in.) 4" Well Material  PVC  SS  
 Static Water Level (ft-btoc) 2.00 Total Depth (ft-btoc) 12.13 Water Column/ Gallons in Well / Initial PID Reading (ppm) 9.8  
 TOC Elevation NA Pump Intake (ft-btoc) -8' Purge Method: Low-flow Sample Method Low-flow  
 Pump On/Off 1030/1050 Volumes Purged      Centrifugal      Submersible      Other       
 Sample Time: Label 1045 Replicate/ Code No. NA Sampled by KH/EE  
 Start 1045 End 1050

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	0.1 3% Cond. (µMhos) (mS/cm)	10% Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	3% Redox ORP (mV)	Appearance	
											Color	Odor
1033	3	300	2.00	0.1	6.47	154	—	0.04	10.72	-4.2	Clear	None
1036	6	300	2.03	0.15	6.49	153	—	0.03	10.77	-5.3	"	"
1039	9	300	2.04	0.2	6.49	153	—	0.02	10.81	-8.4	"	"
1042	12	300	2.04	0.25	6.48	152	—	0.02	10.84	-12.4	"	"

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			

**Well Casing Volumes**

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

**Well Information**

Well Location: 2720 13th Ave SW Well Locked at Arrival:  Yes /  No  
 Condition of Well: Good Well Locked at Departure:  Yes /  No  
 Well Completion:  Flush Mount /  Stick Up Key Number To Well: NM

# ARCADIS Groundwater Sampling Form

Page      of     

Project No. WA000804.0002.00003

Well ID MW-21

Date 02/28/12

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather Rainy

Measuring Pt. Description TOC  
Screen Setting (ft-bmp) 2-12'

Casing Diameter (in.) 2"

Well Material X PVC  
SS

Static Water Level (ft-btoc) 2.90'  
Total Depth (ft-btoc) 11.66

Water Column/ Gallons in Well /

Initial PID Reading (ppm) 0.0

TOC Elevation NA  
Pump Intake (ft-btoc) 7'

Purge Method: Low-flow  
Centrifugal  
Submersible  
Other

Sample Method Low-flow

Pump On/Off 1315/1335  
Volumes Purged NM

Sample Time: Label 1330  
Start 1330  
End 1335

Replicate/ Code No. NA

Sampled by KHEE

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (uMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1318	3	350	2.93	0.1	5.87	32	—	0.04	10.20	115.1	Clear	None
1321	6	350	2.95	0.15	5.80	33	—	0.02	10.25	118.6	Clear	None
1324	9	350	2.96	0.2	5.77	32	—	0.02	10.71	121.0		
1327	12	350	2.97	0.25	5.75	32	—	0.02	10.61	123.7		

Constituents Sampled	Container	Number	Preservative
GRO	40 ml VOA	6	HCl
BTEX			
DRO			

**Well Casing Volumes**

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

**Well Information**

Well Location: 6 Yard

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: NA



# ARCADIS Groundwater Sampling Form

Project No. WA000804.0002.00003 Well ID MW-23 Page      of       
 Date 2-28-2013  
 Project Name/Locator 2720 13th Ave SW Seattle, WA 98134 Weather Rainy  
 Measuring Pt. TOC Screen      Casing Diameter (in.) 4 Well Material X PVC      SS  
 Description      Setting (ft-bmp)      Water Column/ Gallons in Well 4.96 Initial PID Reading (ppm) 304  
 Static Water Level (ft-btoc) 7.21 Total Depth (ft-btoc) 14.80 Purge Method: Low-flow Sample Method Low-flow  
 TOC Elevation NA Pump Intake (ft-btoc) 10 Centrifugal Submersible Other       
 Pump On/Off 13:13/13:35 Volumes Purged ~ gallons Sample Time: Label 13:30 Replicate/ Code No.       
 Start 13:25 End 13:38 Sampled by KH/EE

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Stabilized Range:			Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
					~.5 ft	0.1	3%				Color	Odor
13:15	0	200	7.21	0	6.75	11.190	-	0.64	11.988	-51.1	clear	strong
13:18	3	1	7.21	0.1	6.78	3.660	-	0.15	11.92	-63.3		
13:21	6	1	7.21	0.2	6.77	3.742	-	0.19	11.99	-63.1		
13:24	9	1	7.22	0.3	6.75	3.927	-	0.20	12.07	-64.6		

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			

**Well Casing Volumes**  
 Gallons/Foot    1" = 0.04    1.5" = 0.09    2.5" = 0.28    3.5" = 0.50    6" = 1.47  
                     1.25" = 0.06    2" = 0.162    3" = 0.37    4" = 0.653

**Well Information**  
 Well Location: 13<sup>th</sup> Ave Row  
 Condition of Well: Good  
 Well Completion: Flush Mount / Stick Up  
 Well Locked at Arrival: Yes / No  
 Well Locked at Departure: Yes / No  
 Key Number To Well: NA



# ARCADIS Groundwater Sampling Form

Page      of     Project No. WA000804.0002.00003Well ID MW-24Date 7-26-2013Project Name/Location 2720 13th Ave SW Seattle, WA 98134Weather RainyMeasuring Pt. TOC  
Description TOC  
Screen Setting (ft-bmp)     Casing Diameter (in.) 4Well Material  PVC  
 SSStatic Water Level (ft-btoc) 7.30  
Total Depth (ft-btoc) 14.81Water Column/ Gallons in Well 4.90Initial PID Reading (ppm) 351TOC Elevation NA  
Pump Intake (ft-btoc) 12Purge Method:  Low-flowSample Method Low-flowPump On/Off 12:40 12:55  
Volumes Purged ~0.3 galCentrifugal   
Submersible   
Other Sample Time: Label 12:55  
Start 12:52  
End 12:55  
Replicate/ Code No. BD-1Sampled by KHEE

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Stabilized Range:			Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
					~5 ft	0.1	3%					Color	Odor
12:42	0	100	7.30	0	5.80	21.67	-	0.99	11.58	65.7	clear	strong	
12:45	3	1	7.30	0.1	5.84	20.69	-	0.41	11.59	38.9			
12:48	6	1	7.30	0.2	5.86	20.08	-	0.24	11.59	38.9			
12:51	9	1	7.30	0.3	5.86	19.45	-	0.17	11.57	30.2			

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
<u>Blank Duplicate Collected</u>			

**Well Casing Volumes**

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

**Well Information**

Well Location: 13th Ave Row

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes /  No

Well Locked at Departure: Yes /  No

Key Number To Well: NA

# ARCADIS Groundwater Sampling Form

Project No. WA000804.0002.00003 Well ID TMW-131 Page    of     
 Date 2-29-2013  
 Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather Rainy  
 Measuring Pt. TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Well Material  PVC  SS  
 Static Water Level (ft-bloc) 7.15 Total Depth (ft-bloc) 14.70 Water Column/ Gallons in Well 1.22 Initial PID Reading (ppm) 435  
 TOC Elevator: NA Pump Intake (ft-bloc) 11 Purge Method: Low-flow Sample Method Low-flow  
 Pump On/Off 10:30/10:55 Volumes Purged ~0.3 gallons Centrifugal  Submersible  Other   
 Sample Time: Label 10:50 Replicate/ Code No. — Sampled by KH/EE  
 Start 10:45 End 10:50

Stabilized Range:            ~.5 ft            0.1            3%            10%            3%

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
10:31	0	200	7.15	0	6.37	0.292	—	0.48	10.38	53.4	clear	notebook
10:34	3		7.15	0.1	6.39	0.258	—	0.39	10.46	44.9		
10:37	6		7.16	0.2	6.40	0.254	—	0.36	10.41	48.1		
10:40	9		7.16	0.3	6.42	0.251	—	0.34	10.38	37.6		

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			

**Well Casing Volumes**  
 Gallons/Foot    1" = 0.04    1.5" = 0.09    2.5" = 0.26    3.5" = 0.50    6" = 1.47  
                   1.25" = 0.06    2" = 0.162    3" = 0.37    4" = 0.653

**Well Information**  
 Well Location: 15th Ave Row Well Locked at Arrival: Yes /  No  
 Condition of Well: Good Well Locked at Departure: Yes /  No  
 Well Completion:  Flush Mount  Stick Up Key Number To Well: NA



**Attachment C**

Laboratory Reports and Chain-of-Custody Documentaton



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Arcadis-US  
2300 Eastlake Ave E. Suite 200  
Seattle, WA 98102

Attn: Jonathan Flomerfelt  
Phone: (206) 726-4712  
Fax:

Job: WA000804.0001/ KMEP-Harbor Island

Northwest Total Petroleum Hydrocarbons - Diesel Extended (NWTPH-Dx)  
Northwest Total Petroleum Hydrocarbons - Gasoline Extended (NWTPH-Gx)

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	<b>A-23R</b>					
Lab ID :	ARC13030105-01A	TPH-P (GRO)	ND	0.25 mg/L	03/06/13	03/06/13
Date Sampled	02/27/13 15:30	Surr: 1,2-Dichloroethane-d4	111	(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	92	(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	86	(70-130) %REC	03/06/13	03/06/13
Client ID :	<b>A-5</b>					
Lab ID :	ARC13030105-02A	TPH-P (GRO)	0.66	0.25 mg/L	03/06/13	03/06/13
Date Sampled	02/28/13 14:35	Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	97	(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	03/06/13	03/06/13
Client ID :	<b>A-21</b>					
Lab ID :	ARC13030105-03A	TPH-P (GRO)	0.44	0.25 mg/L	03/06/13	03/06/13
Date Sampled	02/28/13 14:20	Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	103	(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	03/06/13	03/06/13
Client ID :	<b>A-27</b>					
Lab ID :	ARC13030105-04A	TPH-P (GRO)	1.6	0.25 mg/L	03/06/13	03/06/13
Date Sampled	02/28/13 11:25	Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	96	(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	03/06/13	03/06/13
Client ID :	<b>A-28R</b>					
Lab ID :	ARC13030105-05A	TPH-P (GRO)	2.6	0.50 mg/L	03/06/13	03/06/13
Date Sampled	02/28/13 11:55	Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	94	(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	03/06/13	03/06/13
Client ID :	<b>MW-6</b>					
Lab ID :	ARC13030105-06A	TPH-P (GRO)	ND	0.25 mg/L	03/06/13	03/06/13
Date Sampled	02/28/13 10:20	Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	95	(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	84	(70-130) %REC	03/06/13	03/06/13
Client ID :	<b>MW-7</b>					
Lab ID :	ARC13030105-07A	TPH-P (GRO)	1.3	0.30 mg/L	03/06/13	03/06/13
Date Sampled	02/28/13 11:45	Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	97	(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	03/06/13	03/06/13
Client ID :	<b>MW-9</b>					
Lab ID :	ARC13030105-08A	TPH-P (GRO)	ND	0.25 mg/L	03/06/13	03/06/13
Date Sampled	02/28/13 12:55	Surr: 1,2-Dichloroethane-d4	110	(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	94	(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	03/06/13	03/06/13



# Alpha Analytical, Inc.

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Client ID :	<b>MW-14</b>						
Lab ID :	ARC13030105-09A	TPH-P (GRO)	ND	0.25 mg/L	03/06/13	03/06/13	
Date Sampled	02/28/13 10:05	Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	03/06/13	03/06/13	
		Surr: Toluene-d8	95	(70-130) %REC	03/06/13	03/06/13	
		Surr: 4-Bromofluorobenzene	88	(70-130) %REC	03/06/13	03/06/13	
Client ID :	<b>MW-18</b>						
Lab ID :	ARC13030105-10A	TPH-P (GRO)	ND	0.25 mg/L	03/06/13	03/06/13	
Date Sampled	02/28/13 09:55	Surr: 1,2-Dichloroethane-d4	111	(70-130) %REC	03/06/13	03/06/13	
		Surr: Toluene-d8	95	(70-130) %REC	03/06/13	03/06/13	
		Surr: 4-Bromofluorobenzene	87	(70-130) %REC	03/06/13	03/06/13	
Client ID :	<b>MW-19</b>						
Lab ID :	ARC13030105-11A	TPH-P (GRO)	8.1	2.0 mg/L	03/06/13	03/06/13	
Date Sampled	02/28/13 10:45	Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	03/06/13	03/06/13	
		Surr: Toluene-d8	97	(70-130) %REC	03/06/13	03/06/13	
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	03/06/13	03/06/13	
Client ID :	<b>MW-21</b>						
Lab ID :	ARC13030105-12A	TPH-E (DRO), Silica Gel	0.90	0.25 mg/L	03/01/13	03/04/13	
Date Sampled	02/28/13 13:30	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	03/01/13	03/04/13	
		Surr: Nonane, Silica Gel	114	(53-145) %REC	03/01/13	03/04/13	
		TPH-P (GRO)	ND	0.25 mg/L	03/06/13	03/06/13	
		Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	03/06/13	03/06/13	
		Surr: Toluene-d8	96	(70-130) %REC	03/06/13	03/06/13	
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	03/06/13	03/06/13	
Client ID :	<b>MW-23</b>						
Lab ID :	ARC13030105-13A	TPH-P (GRO)	2.6	0.50 mg/L	03/06/13	03/06/13	
Date Sampled	02/28/13 13:30	Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	03/06/13	03/06/13	
		Surr: Toluene-d8	96	(70-130) %REC	03/06/13	03/06/13	
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	03/06/13	03/06/13	
Client ID :	<b>MW-24</b>						
Lab ID :	ARC13030105-14A	TPH-P (GRO)	6.6	2.0 mg/L	03/06/13	03/06/13	
Date Sampled	02/28/13 12:55	Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	03/06/13	03/06/13	
		Surr: Toluene-d8	95	(70-130) %REC	03/06/13	03/06/13	
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	03/06/13	03/06/13	
Client ID :	<b>TMW-B1</b>						
Lab ID :	ARC13030105-15A	TPH-P (GRO)	14	2.0 mg/L	03/06/13	03/06/13	
Date Sampled	02/28/13 10:50	Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	03/06/13	03/06/13	
		Surr: Toluene-d8	97	(70-130) %REC	03/06/13	03/06/13	
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	03/06/13	03/06/13	
Client ID :	<b>BD-1</b>						
Lab ID :	ARC13030105-16A	TPH-P (GRO)	9.0	2.0 mg/L	03/06/13	03/06/13	
Date Sampled	02/28/13 00:00	Surr: 1,2-Dichloroethane-d4	92	(70-130) %REC	03/06/13	03/06/13	
		Surr: Toluene-d8	94	(70-130) %REC	03/06/13	03/06/13	
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	03/06/13	03/06/13	





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Diesel Range Organics (DRO) C13-C22  
Gasoline Range Organics (GRO) C4-C13  
Oil Range Organics (ORO) C22-C40+  
ND = Not Detected



*Roger Scholl*     *Randy Gardner*     *Walter Hinchman*  
Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com  
Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.  
Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



*RJ*

3/14/13

Report Date



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

Arcadis-US  
2300 Eastlake Ave E. Suite 200  
Seattle, WA 98102

Attn: Jonathan Flomerfelt  
Phone: (206) 726-4712  
Fax:  
Date Received : 03/01/13

Job: WA000804.0001/ KMEP-Harbor Island

### Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	A-23R				
Lab ID :	ARC13030105-01A	Benzene	ND	0.50 µg/L	03/06/13
Date Sampled	02/27/13 15:30	Toluene	ND	0.50 µg/L	03/06/13
		Ethylbenzene	ND	0.50 µg/L	03/06/13
		Xylenes, Total	ND	0.50 µg/L	03/06/13
		Surr: 1,2-Dichloroethane-d4	111	(70-130) %REC	03/06/13
		Surr: Toluene-d8	92	(70-130) %REC	03/06/13
		Surr: 4-Bromofluorobenzene	86	(70-130) %REC	03/06/13
Client ID :	A-5				
Lab ID :	ARC13030105-02A	Benzene	62	0.50 µg/L	03/06/13
Date Sampled	02/28/13 14:35	Toluene	1.7	0.50 µg/L	03/06/13
		Ethylbenzene	ND	0.50 µg/L	03/06/13
		Xylenes, Total	1.3	0.50 µg/L	03/06/13
		Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC	03/06/13
		Surr: Toluene-d8	97	(70-130) %REC	03/06/13
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	03/06/13
Client ID :	A-21				
Lab ID :	ARC13030105-03A	Benzene	ND	0.50 µg/L	03/06/13
Date Sampled	02/28/13 14:20	Toluene	ND	0.50 µg/L	03/06/13
		Ethylbenzene	ND	0.50 µg/L	03/06/13
		Xylenes, Total	ND	0.50 µg/L	03/06/13
		Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	03/06/13
		Surr: Toluene-d8	103	(70-130) %REC	03/06/13
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	03/06/13
Client ID :	A-27				
Lab ID :	ARC13030105-04A	Benzene	38	1.0 µg/L	03/06/13
Date Sampled	02/28/13 11:25	Toluene	1.9	1.0 µg/L	03/06/13
		Ethylbenzene	57	1.0 µg/L	03/06/13
		Xylenes, Total	7.8	1.0 µg/L	03/06/13
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	03/06/13
		Surr: Toluene-d8	96	(70-130) %REC	03/06/13
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	03/06/13
Client ID :	A-28R				
Lab ID :	ARC13030105-05A	Benzene	62	2.5 µg/L	03/06/13
Date Sampled	02/28/13 11:55	Toluene	ND	2.5 µg/L	03/06/13
		Ethylbenzene	44	2.5 µg/L	03/06/13
		Xylenes, Total	5.9	2.5 µg/L	03/06/13
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	03/06/13
		Surr: Toluene-d8	94	(70-130) %REC	03/06/13
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	03/06/13



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Client ID :	<b>MW-6</b>						
Lab ID :	ARC13030105-06A	Benzene	ND		0.50 µg/L	03/06/13	03/06/13
Date Sampled	02/28/13 10:20	Toluene	ND		0.50 µg/L	03/06/13	03/06/13
		Ethylbenzene	ND		0.50 µg/L	03/06/13	03/06/13
		Xylenes, Total	ND		0.50 µg/L	03/06/13	03/06/13
		Surr: 1,2-Dichloroethane-d4	112		(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	95		(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	84		(70-130) %REC	03/06/13	03/06/13
Client ID :	<b>MW-7</b>						
Lab ID :	ARC13030105-07A	Benzene	ND	V	1.5 µg/L	03/06/13	03/06/13
Date Sampled	02/28/13 11:45	Toluene	7.0		1.5 µg/L	03/06/13	03/06/13
		Ethylbenzene	7.0		1.5 µg/L	03/06/13	03/06/13
		Xylenes, Total	190		1.5 µg/L	03/06/13	03/06/13
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	97		(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	92		(70-130) %REC	03/06/13	03/06/13
Client ID :	<b>MW-9</b>						
Lab ID :	ARC13030105-08A	Benzene	1.2		0.50 µg/L	03/06/13	03/06/13
Date Sampled	02/28/13 12:55	Toluene	ND		0.50 µg/L	03/06/13	03/06/13
		Ethylbenzene	ND		0.50 µg/L	03/06/13	03/06/13
		Xylenes, Total	ND		0.50 µg/L	03/06/13	03/06/13
		Surr: 1,2-Dichloroethane-d4	110		(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	94		(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	89		(70-130) %REC	03/06/13	03/06/13
Client ID :	<b>MW-14</b>						
Lab ID :	ARC13030105-09A	Benzene	ND		0.50 µg/L	03/06/13	03/06/13
Date Sampled	02/28/13 10:05	Toluene	ND		0.50 µg/L	03/06/13	03/06/13
		Ethylbenzene	ND		0.50 µg/L	03/06/13	03/06/13
		Xylenes, Total	ND		0.50 µg/L	03/06/13	03/06/13
		Surr: 1,2-Dichloroethane-d4	94		(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	95		(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	88		(70-130) %REC	03/06/13	03/06/13
Client ID :	<b>MW-18</b>						
Lab ID :	ARC13030105-10A	Benzene	ND		0.50 µg/L	03/06/13	03/06/13
Date Sampled	02/28/13 09:55	Toluene	ND		0.50 µg/L	03/06/13	03/06/13
		Ethylbenzene	ND		0.50 µg/L	03/06/13	03/06/13
		Xylenes, Total	ND		0.50 µg/L	03/06/13	03/06/13
		Surr: 1,2-Dichloroethane-d4	111		(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	95		(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	87		(70-130) %REC	03/06/13	03/06/13
Client ID :	<b>MW-19</b>						
Lab ID :	ARC13030105-11A	Benzene	45		10 µg/L	03/06/13	03/06/13
Date Sampled	02/28/13 10:45	Toluene	130		10 µg/L	03/06/13	03/06/13
		Ethylbenzene	440		10 µg/L	03/06/13	03/06/13
		Xylenes, Total	770		10 µg/L	03/06/13	03/06/13
		Surr: 1,2-Dichloroethane-d4	94		(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	97		(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	92		(70-130) %REC	03/06/13	03/06/13



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Client ID : **MW-21**

Lab ID :	ARC13030105-12A	Benzene	ND		0.50 µg/L	03/06/13	03/06/13
Date Sampled	02/28/13 13:30	Toluene	ND		0.50 µg/L	03/06/13	03/06/13
		Ethylbenzene	ND		0.50 µg/L	03/06/13	03/06/13
		Xylenes, Total	ND		0.50 µg/L	03/06/13	03/06/13
		Surr: 1,2-Dichloroethane-d4	96		(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	96		(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	89		(70-130) %REC	03/06/13	03/06/13

Client ID : **MW-23**

Lab ID :	ARC13030105-13A	Benzene	34		2.5 µg/L	03/06/13	03/06/13
Date Sampled	02/28/13 13:30	Toluene	ND	V	2.5 µg/L	03/06/13	03/06/13
		Ethylbenzene	160		2.5 µg/L	03/06/13	03/06/13
		Xylenes, Total	10		2.5 µg/L	03/06/13	03/06/13
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	96		(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	91		(70-130) %REC	03/06/13	03/06/13

Client ID : **MW-24**

Lab ID :	ARC13030105-14A	Benzene	290		10 µg/L	03/06/13	03/06/13
Date Sampled	02/28/13 12:55	Toluene	ND	V	10 µg/L	03/06/13	03/06/13
		Ethylbenzene	390		10 µg/L	03/06/13	03/06/13
		Xylenes, Total	840		10 µg/L	03/06/13	03/06/13
		Surr: 1,2-Dichloroethane-d4	96		(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	95		(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	91		(70-130) %REC	03/06/13	03/06/13

Client ID : **TMW-B1**

Lab ID :	ARC13030105-15A	Benzene	26		10 µg/L	03/06/13	03/06/13
Date Sampled	02/28/13 10:50	Toluene	ND	V	10 µg/L	03/06/13	03/06/13
		Ethylbenzene	500		10 µg/L	03/06/13	03/06/13
		Xylenes, Total	870		10 µg/L	03/06/13	03/06/13
		Surr: 1,2-Dichloroethane-d4	98		(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	97		(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	93		(70-130) %REC	03/06/13	03/06/13

Client ID : **BD-1**

Lab ID :	ARC13030105-16A	Benzene	480		10 µg/L	03/06/13	03/06/13
Date Sampled	02/28/13 00:00	Toluene	16		10 µg/L	03/06/13	03/06/13
		Ethylbenzene	590		10 µg/L	03/06/13	03/06/13
		Xylenes, Total	1,300		10 µg/L	03/06/13	03/06/13
		Surr: 1,2-Dichloroethane-d4	92		(70-130) %REC	03/06/13	03/06/13
		Surr: Toluene-d8	94		(70-130) %REC	03/06/13	03/06/13
		Surr: 4-Bromofluorobenzene	91		(70-130) %REC	03/06/13	03/06/13

Client ID : **Groundwater Composite**

Lab ID :	ARC13030105-17A	Benzene	60		1.0 µg/L	03/12/13	03/12/13
Date Sampled	02/27/13 00:00	Toluene	12		1.0 µg/L	03/12/13	03/12/13
		Ethylbenzene	120		1.0 µg/L	03/12/13	03/12/13
		Xylenes, Total	230		1.0 µg/L	03/12/13	03/12/13
		Surr: 1,2-Dichloroethane-d4	103		(70-130) %REC	03/12/13	03/12/13
		Surr: Toluene-d8	98		(70-130) %REC	03/12/13	03/12/13
		Surr: 4-Bromofluorobenzene	116		(70-130) %REC	03/12/13	03/12/13



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V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected



*Roger Scholl*     *Randy Gardner*     *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



*RS*  
3/15/13

**Report Date**



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## VOC Sample Preservation Report

Work Order: ARC13030105

Job: WA000804.0001/ KMEP-Harbor Island

Alpha's Sample ID	Client's Sample ID	Matrix	pH
13030105-01A	A-23R	Aqueous	2
13030105-02A	A-5	Aqueous	2
13030105-03A	A-21	Aqueous	2
13030105-04A	A-27	Aqueous	2
13030105-05A	A-28R	Aqueous	2
13030105-06A	MW-6	Aqueous	2
13030105-07A	MW-7	Aqueous	2
13030105-08A	MW-9	Aqueous	2
13030105-09A	MW-14	Aqueous	2
13030105-10A	MW-18	Aqueous	2
13030105-11A	MW-19	Aqueous	2
13030105-12A	MW-21	Aqueous	2
13030105-13A	MW-23	Aqueous	2
13030105-14A	MW-24	Aqueous	2
13030105-15A	TMW-B1	Aqueous	2
13030105-16A	BD-1	Aqueous	2

3/14/13

Report Date

Page 1 of 1



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Date:  
08-Mar-13

## QC Summary Report

Work Order:  
13030105

### Method Blank

File ID: 1A03011324.D	Type: MBLK	Test Code: EPA Method SW8015B/C Ext / SG	Batch ID: 30521SG	Analysis Date: 03/01/2013 18:48						
Sample ID: MBLK-30521	Units : mg/L	Run ID: FID_1_130301D	Prep Date: 03/01/2013 11:58							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	ND	0.25								
TPH-E (ORO), Silica Gel	ND	0.5								
Surr: Nonane, Silica Gel	0.16		0.15		107	53	145			

### Laboratory Control Spike

File ID: 1A03011325.D	Type: LCS	Test Code: EPA Method SW8015B/C Ext / SG	Batch ID: 30521SG	Analysis Date: 03/01/2013 19:14						
Sample ID: LCS-30521	Units : mg/L	Run ID: FID_1_130301D	Prep Date: 03/01/2013 11:58							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2.49	0.05	2.5		99.7	70	130			
Surr: Nonane, Silica Gel	0.169		0.15		113	53	145			

### Sample Matrix Spike

File ID: 1A03011328.D	Type: MS	Test Code: EPA Method SW8015B/C Ext / SG	Batch ID: 30521SG	Analysis Date: 03/01/2013 20:32						
Sample ID: 13030104-02AMS	Units : mg/L	Run ID: FID_1_130301D	Prep Date: 03/01/2013 11:58							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2.71	0.05	2.5	0	108	51	151			
Surr: Nonane, Silica Gel	0.167		0.15		111	53	145			

### Sample Matrix Spike Duplicate

File ID: 1A03011329.D	Type: MSD	Test Code: EPA Method SW8015B/C Ext / SG	Batch ID: 30521SG	Analysis Date: 03/01/2013 20:58						
Sample ID: 13030104-02AMSD	Units : mg/L	Run ID: FID_1_130301D	Prep Date: 03/01/2013 11:58							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2.71	0.05	2.5	0	108	51	151	2.712	0.0(40)	
Surr: Nonane, Silica Gel	0.137		0.15		91	53	145			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
08-Mar-13

## QC Summary Report

Work Order:  
13030105

### Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\130306\13030615.D**

Batch ID: **MS10W0306B**

Analysis Date: **03/06/2013 14:27**

Sample ID: **MBLK MS10W0306B**

Units: **mg/L**

Run ID: **MSD\_10\_130306A**

Prep Date: **03/06/2013 14:27**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.25								
Surr: 1,2-Dichloroethane-d4	0.0118		0.01		118	70	130			
Surr: Toluene-d8	0.00931		0.01		93	70	130			
Surr: 4-Bromofluorobenzene	0.00868		0.01		87	70	130			

### Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\130306\13030613.D**

Batch ID: **MS10W0306B**

Analysis Date: **03/06/2013 13:38**

Sample ID: **GLCS MS10W0306B**

Units: **mg/L**

Run ID: **MSD\_10\_130306A**

Prep Date: **03/06/2013 13:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.369	0.05	0.4		92	70	130			
Surr: 1,2-Dichloroethane-d4	0.0116		0.01		116	70	130			
Surr: Toluene-d8	0.00972		0.01		97	70	130			
Surr: 4-Bromofluorobenzene	0.00954		0.01		95	70	130			

### Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\130306\13030625.D**

Batch ID: **MS10W0306B**

Analysis Date: **03/06/2013 18:00**

Sample ID: **13030105-06AGS**

Units: **mg/L**

Run ID: **MSD\_10\_130306A**

Prep Date: **03/06/2013 18:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.56	0.25	2	0	78	54	143			
Surr: 1,2-Dichloroethane-d4	0.0486		0.05		97	70	130			
Surr: Toluene-d8	0.0418		0.05		84	70	130			
Surr: 4-Bromofluorobenzene	0.0477		0.05		95	70	130			

### Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\130306\13030626.D**

Batch ID: **MS10W0306B**

Analysis Date: **03/06/2013 18:22**

Sample ID: **13030105-06AGSD**

Units: **mg/L**

Run ID: **MSD\_10\_130306A**

Prep Date: **03/06/2013 18:22**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.82	0.25	2	0	91	54	143	1.562	15.1(23)	
Surr: 1,2-Dichloroethane-d4	0.0505		0.05		101	70	130			
Surr: Toluene-d8	0.05		0.05		100	70	130			
Surr: 4-Bromofluorobenzene	0.0475		0.05		95	70	130			

### Comments:

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Date:  
08-Mar-13

## QC Summary Report

Work Order:  
13030105

### Method Blank

Type: <b>MBLK</b>		Test Code: <b>EPA Method SW8260B</b>								
File ID: <b>C:\HPCHEM\MS10\DATA\130306\13030615.D</b>			Batch ID: <b>MS10W0306A</b>			Analysis Date: <b>03/06/2013 14:27</b>				
Sample ID: <b>MBLK MS10W0306A</b>	Units: <b>µg/L</b>	Run ID: <b>MSD_10_130306A</b>			Prep Date: <b>03/06/2013 14:27</b>					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
Xylenes, Total	ND	0.5								
Surr: 1,2-Dichloroethane-d4	11.8		10		118	70	130			
Surr: Toluene-d8	9.31		10		93	70	130			
Surr: 4-Bromofluorobenzene	8.68		10		87	70	130			

### Laboratory Control Spike

Type: <b>LCS</b>		Test Code: <b>EPA Method SW8260B</b>								
File ID: <b>C:\HPCHEM\MS10\DATA\130306\13030612.D</b>			Batch ID: <b>MS10W0306A</b>			Analysis Date: <b>03/06/2013 13:17</b>				
Sample ID: <b>LCS MS10W0306A</b>	Units: <b>µg/L</b>	Run ID: <b>MSD_10_130306A</b>			Prep Date: <b>03/06/2013 13:17</b>					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	10	0.5	10		100	70	130			
Toluene	9.67	0.5	10		97	80	120			
Ethylbenzene	10.1	0.5	10		101	80	120			
Xylenes, Total	18.4	0.5	20		92	70	130			
Surr: 1,2-Dichloroethane-d4	12		10		120	70	130			
Surr: Toluene-d8	9.99		10		99.9	70	130			
Surr: 4-Bromofluorobenzene	9.89		10		99	70	130			

### Sample Matrix Spike

Type: <b>MS</b>		Test Code: <b>EPA Method SW8260B</b>								
File ID: <b>C:\HPCHEM\MS10\DATA\130306\13030623.D</b>			Batch ID: <b>MS10W0306A</b>			Analysis Date: <b>03/06/2013 17:18</b>				
Sample ID: <b>13030105-06AMS</b>	Units: <b>µg/L</b>	Run ID: <b>MSD_10_130306A</b>			Prep Date: <b>03/06/2013 17:18</b>					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	50.3	1.3	50		0	101	67	134		
Toluene	47.9	1.3	50		0	96	38	130		
Ethylbenzene	52.2	1.3	50		0	104	70	130		
Xylenes, Total	94.7	1.3	100		0	95	70	130		
Surr: 1,2-Dichloroethane-d4	58		50		116	70	130			
Surr: Toluene-d8	49.2		50		98	70	130			
Surr: 4-Bromofluorobenzene	48.4		50		97	70	130			

### Sample Matrix Spike Duplicate

Type: <b>MSD</b>		Test Code: <b>EPA Method SW8260B</b>								
File ID: <b>C:\HPCHEM\MS10\DATA\130306\13030624.D</b>			Batch ID: <b>MS10W0306A</b>			Analysis Date: <b>03/06/2013 17:39</b>				
Sample ID: <b>13030105-06AMSD</b>	Units: <b>µg/L</b>	Run ID: <b>MSD_10_130306A</b>			Prep Date: <b>03/06/2013 17:39</b>					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	51.2	1.3	50		0	102	67	134	50.32	1.8(21)
Toluene	49.3	1.3	50		0	99	38	130	47.9	2.8(20)
Ethylbenzene	54	1.3	50		0	108	70	130	52.16	3.5(20)
Xylenes, Total	97.1	1.3	100		0	97	70	130	94.7	2.5(22)
Surr: 1,2-Dichloroethane-d4	57		50		114	70	130			
Surr: Toluene-d8	49.2		50		98	70	130			
Surr: 4-Bromofluorobenzene	47.7		50		95	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# CHAIN-OF-CUSTODY RECORD

**WA**  
**AMENDED**

**Alpha Analytical, Inc.**  
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

**WorkOrder : ARCW13030105**  
**Report Due By : 5:00 PM On : 15-Mar-13**

**Client:**  
Arcadis-US  
2300 Eastlake Ave E. Suite 200  
Seattle, WA 98102

**Report Attention** **Phone Number** **Email Address**  
Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com  
Chris Angier (503) 220-8201 x 1115 chris.angier@arcadis-us.com

**EDD Required : No**

**Sampled by : Kyle Haslan, Eric Epple**

**QC Level : S3** = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

**Job :** WA000804.0001/KMEP-Harbor Island

**Cooler Temp** **Samples Received** **Date Printed**  
3 °C 01-Mar-13 11-Mar-13

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests			Sample Remarks
				TPH/E_SG_W	TPHP_W	VOC_W	
ARC13030105-01A	A-23R	AQ 02/27/13 15:30	3 0 10	NWTPH-GK	BTEX_C		
ARC13030105-02A	A-5	AQ 02/28/13 14:35	3 0 10	NWTPH-GK	BTEX_C		
ARC13030105-03A	A-21	AQ 02/28/13 14:20	3 0 10	NWTPH-GK	BTEX_C		
ARC13030105-04A	A-27	AQ 02/28/13 11:25	3 0 10	NWTPH-GK	BTEX_C		
ARC13030105-05A	A-28R	AQ 02/28/13 11:55	3 0 10	NWTPH-GK	BTEX_C		
ARC13030105-06A	MW-6	AQ 02/28/13 10:20	3 0 10	NWTPH-GK	BTEX_C		
ARC13030105-07A	MW-7	AQ 02/28/13 11:45	3 0 10	NWTPH-GK	BTEX_C		
ARC13030105-08A	MW-9	AQ 02/28/13 12:55	3 0 10	NWTPH-GK	BTEX_C		
ARC13030105-09A	MW-14	AQ 02/28/13 10:05	3 0 10	NWTPH-GK	BTEX_C		
ARC13030105-10A	MW-18	AQ 02/28/13 09:55	3 0 10	NWTPH-GK	BTEX_C		

**Comments:** No security seals. Frozen ice. Amended 3/11/13. Per Reyna's phone conversation w/ Jonathan he wants a 16:1 composite for all samples called Groundwater Composite and ran for BTEX on a 5 day TAT. Due 3/15/13. Client is aware rush extraction charges. do apply. EA

**Logged in by:** Elizabeth Adcox Elizabeth Adcox Alpha Analytical, Inc. 3-11-13 1409

**Signature** **Print Name** **Company** **Date/Time**

**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing Information :**

**CHAIN-OF-CUSTODY RECORD**

**WA**

**AMENDED**  
Page: 2 of 2

**Alpha Analytical, Inc.**  
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

**WorkOrder : ARCW13030105**

**Report Due By : 5:00 PM On : 15-Mar-13**

**Client:**

Arcadis-US  
2300 Eastlake Ave E. Suite 200  
Seattle, WA 98102

**Report Attention**

Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com  
Chris Angier (503) 220-8201 x 1115 chris.angier@arcadis-us.com

**Phone Number**

**Email Address**

**EDD Required : No**

**Sampled by : Kyle Haslan, Eric Epple**

**Cooler Temp**

**Samples Received**

**Date Printed**

3 °C

01-Mar-13

11-Mar-13

Client's COC # : 56947, 11011

Job : WA000804.0001/ KMEP-Harbor Island

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests			Sample Remarks
				TPHE_SG_W	TPHP_W	VOC_W	
ARC13030105-11A	MW-19	AQ 02/28/13 10:45	3 0 10	NWTPH-Gx	BTEX_C		
ARC13030105-12A	MW-21	AQ 02/28/13 13:30	6 0 10	NWTPH-Dx Silica Gel	BTEX_C		
ARC13030105-13A	MW-23	AQ 02/28/13 13:30	3 0 10	NWTPH-Gx	BTEX_C		
ARC13030105-14A	MW-24	AQ 02/28/13 12:55	3 0 10	NWTPH-Gx	BTEX_C		
ARC13030105-15A	TMW-B1	AQ 02/28/13 10:50	3 0 10	NWTPH-Gx	BTEX_C		
ARC13030105-16A	BD-1	AQ 02/28/13 00:00	3 0 10	NWTPH-Gx	BTEX_C		
ARC13030105-17A	Groundwater Composite	AQ 02/27/13 00:00	16 0 10		BTEX_C		16:1 Composite

**Comments:** No security seals. Frozen ice. Amended 3/1/13. Per Reyna's phone conversation w/ Jonathan he wants a 16:1 composite for all samples called Groundwater Composite and ran for BTEX on a 5 day TAT. Due 3/15/13. Client is aware rush extraction charges : do apply. EA

Logged in by: Elizabeth Adcox Signature: [Signature] Print Name: Elizabeth Adcox Company: Alpha Analytical, Inc. Date/Time: 3-11-13 1409

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

# CHAIN-OF-CUSTODY RECORD

# WA

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : **ARCW13030105**

Report Due By : **5:00 PM On : 15-Mar-13**

Client:

Arcadis-US  
 2300 Eastlake Ave E. Suite 200  
 Seattle, WA 98102

Report Attention **Phone Number** **Email Address**

Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com  
 Chris Angier (503) 220-8201 x 1115 chris.angier@arcadis-us.com

EDD Required : No

Sampled by : Kyle Haslan, Eric Epple

Cooler Temp **3 °C** Samples Received **01-Mar-13** Date Printed **01-Mar-13**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Job : WA000804.0001/ KMIEP-Harbor Island

Client's COC # : 56947, 11011

Alpha Sample ID Client Sample ID Matrix Date Alpha Sub TAT

Alpha Sample ID	Client Sample ID	Matrix	Date	Alpha Sub	TAT	Requested Tests						Sample Remarks		
						TPH/E SG W	TPHP W	VOC W						
ARC13030105-01A	A-23R	AQ	02/27/13 15:30	3	0	10								
ARC13030105-02A	A-5	AQ	02/28/13 14:35	3	0	10								
ARC13030105-03A	A-21	AQ	02/28/13 14:20	3	0	10								
ARC13030105-04A	A-27	AQ	02/28/13 11:25	3	0	10								
ARC13030105-05A	A-28R	AQ	02/28/13 11:55	3	0	10								
ARC13030105-06A	MW-6	AQ	02/28/13 10:20	3	0	10								
ARC13030105-07A	MW-7	AQ	02/28/13 11:45	3	0	10								
ARC13030105-08A	MW-9	AQ	02/28/13 12:55	3	0	10								
ARC13030105-09A	MW-14	AQ	02/28/13 10:05	3	0	10								
ARC13030105-10A	MW-18	AQ	02/28/13 09:55	3	0	10								

Comments: No security seals. Frozen ice.

Signature: Elizabeth Adcox Print Name: Elizabeth Adcox Company: Alpha Analytical, Inc. Date/Time: 3-11-13 12:04

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

# CHAIN-OF-CUSTODY RECORD

# WA

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW13030105

Report Due By : 5:00 PM On : 15-Mar-13

Client:

Arcadis-US  
 2300 Eastlake Ave E, Suite 200

Report Attention Phone Number Email Address

Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com  
 Chris Angier (503) 220-8201 x 1115 chris.angier@arcadis-us.com

EDD Required : No

Seattle, WA 98102

Sampled by : Kyle Haslan, Eric Epple

PO :

Cooler Temp Samples Received Date Printed

3 °C 01-Mar-13 01-Mar-13

Client's COC # : 56947, 11011 Job : WA000804.0001/ KMIEP-Harbor Island

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha Sub TAT	Requested Tests			Sample Remarks
				TPHE_SG_W	TPHP_W	VOC_W	
ARC13030105-11A	MW-19	02/28/13 10:45	3 0 10		NWTPH-GK	BTEX_C	
ARC13030105-12A	MW-21	02/28/13 13:30	6 0 10		NWTPH-DX Silica Gel	BTEX_C	
ARC13030105-13A	MW-23	02/28/13 13:30	3 0 10		NWTPH-GK	BTEX_C	
ARC13030105-14A	MW-24	02/28/13 12:55	3 0 10		NWTPH-GK	BTEX_C	
ARC13030105-15A	TMW-B1	02/28/13 10:50	3 0 10		NWTPH-GK	BTEX_C	
ARC13030105-16A	BD-1	02/28/13 00:00	3 0 10		NWTPH-GK	BTEX_C	

Comments: No security seals. Frozen ice.

Signature	Print Name	Company	Date/Time
<i>Elizabeth Adcox</i>	Elizabeth Adcox	Alpha Analytical, Inc.	3-1-13 12:04

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing Information:**

Company Name: Kindler Mazon Energy Partners  
 Attn: Robert Friedlander  
 Address: 1140 Carl Blvd  
 City, State, Zip: Richmond CA 94804  
 Phone Number: (510) 672-1678 Fax: (303) 984-3759



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

**Samples Collected From Which State?**  
 AZ  CA  NV  WA  OR  OTHER   
**DOD Site** 1 of 2  
 Page # 1 of 2

Consultant / Client Name: ALLADIS Job # WA000604, 0001 Job Name: RMEP - Hecker Island  
 Address: 1100 Olive Way, Suite 800 Report Attention / Project Manager: Jonathan Florentin  
 City, State, Zip: Seattle, WA 98101 Name: Jonathan Florentin Email: jonathan.florentin@arcadis-us.com  
 Phone: (206) 726-4712 Mobile:

Time	Date	Matrix	PO #	Lab ID Number	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required	Data Validation Level: III or IV	EDD / EDF? YES ___ NO ___	Global ID #	REMARKS
15:30	2-27-13	AQ		FRC13030105	01	A-23R	Shield	-	3	GLO (NWTPH-G)				
14:55	2-28-13					A-5				BTEX (826013)				
14:10						A-21				DRO (NWTPH-D)				
11:15						A-25R A-27				HOL (NWTPH-D)				
11:55						A-28R								
10:10						MW-6								
11:45						MW-7								
12:55						MW-9								
10:05						MW-14								
9:55						MW-18								
10:45						MW-19								
13:30						MW-21								
13:50						MW-23								

**ADDITIONAL INSTRUCTIONS:**

Silica Gel Cleanup on MW-21 (DRO+H6); cc report to Chris Angier

1. (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: Kyle Heslam & Eric Epple

Relinquished by: (Signature/Affiliation)	<u>W. AK</u>	AUS	Received by: (Signature/Affiliation)	<u>Coalis</u>	RM	Date:	<u>2-28-2013</u>	Time:	<u>16:00</u>
Relinquished by: (Signature/Affiliation)			Received by: (Signature/Affiliation)	<u>Jonathan</u>	<u>Adcox / Alpha</u>	Date:	<u>3-1-13</u>	Time:	<u>12:04</u>
Relinquished by: (Signature/Affiliation)			Received by: (Signature/Affiliation)			Date:		Time:	

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Vol S-Soil Jar O-Orb T-Tedlar B-Brass P-Plastic OT-Other  
 NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

**Alpha Analytical, Inc.**  
 Billing Information:  
 Robert Meyer Energy Partners  
 170 East Lake Blvd  
 Laguna Hills, CA 94804  
 Phone Number: (909) 671-1678 FAX: (909) 984-3759

Alpha Analytical, Inc.  
 Environmental Lab

Alpha Analytical, Inc.  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
 Phone: 775-355-1044 Fax: 775-355-0406  
 Satellite Service Centers:  
 Northern CA: 9691 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Phone: 916-366-9089 Fax: 916-366-9089  
 Phone: 702-281-4848 Fax: 702-281-4848  
 Phone: 714-386-2901 Fax: 714-386-2901

Company: **ALADIS**  
 Address: **1100 Olive Way Suite 600 Seattle, WA 98101**  
 City, State, Zip: **Seattle, WA 98101**

Consultant/Client Info: **Job and Purchase Order Info: WA000804.0001**  
**Job #** **Job Name:** **WTEP - Harbor Island**

Report Attention/Project Manager: **Stephan Flanagan**  
 EDD Required? **Yes / No**  
 EDF Required? **Yes / No**  
 Global ID: **WA008716-4712**  
 Data Validation Level: **III** or **IV**

Time Sampled (HH:MM)	Date Sampled (MM/DD)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	Analysis Requested	Remarks
10:50	1	AD	14	MW-24	1		3	GRO (MWTPH-G)	
10:50	1	AD	15	TMW-B2	1		3	BTEX (82605)	

ADDITIONAL INSTRUCTIONS: **CL report to Chris Angir**

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0638 (c) (2).

Sampled By: **Vive Hestem** Date: **2-26-2013** Time: **16:00**  
 Relinquished by: **Vive Hestem** Date: **2-26-2013** Time: **16:00**

Received by: **Cooper** Date: **2-26-2013** Time: **16:00**  
 Relinquished by: **Cooper** Date: **3-1-13** Time: **12:04**

Received by: **Cooper** Date: **2-26-2013** Time: **16:00**  
 Relinquished by: **Cooper** Date: **3-1-13** Time: **12:04**

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.