ARCADIS
Infrastructure · Water · Environment · Buildings

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ENVIRONMENT

Maura O'Brien
Washington State Department of Ecology
Northwest Regional Office
3190 160th Avenue Southeast
Bellevue, Washington 98008-5452

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

Date
June 13, 2013

Dear Ms. O'Brien:

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

The next groundwater monitoring event at the site is scheduled for third 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.

Contact:
Chris Angier

Phone:
503-220-8201

Email:
chris.angier
@arcadis-us.com

Our ref:
WA000804.2013

Sincerely,

ARCADIS U.S., Inc.

for Chris Angier
Project Manager

Rebecca Andresen, L.G.
Associate Vice President

Enc.:
Second 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)
Ms. Stephanie Randall, KMLT, Orange, CA (File Copy)

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Imagine the result

Second Quarter 2013 Groundwater Monitoring Report

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

June 2013

ARCADIS

Kyle Haslam
Environmental Scientist

for

Chris Angier
Project Manager

Rebecca Andresen, L.G.
Associate Vice President

Rebecca K. Andresen

Second Quarter 2013
Groundwater Monitoring Report
Kinder Morgan Harbor Island Terminal
KMLT File No. 29.79.02 (81171)
2720 13th Avenue Southwest
Seattle, Washington 98134

Prepared for:
Kinder Morgan Liquids Terminals, LLC

Prepared by:
ARCADIS U.S., Inc.
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Suite 800
Seattle
Washington 98101
Tel 206 726 4700
Fax 206 325 8218

Our Ref.:
WA000804.2013

Date:
June 13, 2013

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Table of Contents

Executive Summary

ARCADIS U.S., Inc. has prepared this summary report to present the findings of the Second 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 April 8, 9, and 10, 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 30 wells. Measurable separate phase hydrocarbons (SPH) were not observed in any well gauged during this sampling event.

Concentrations of Total Petroleum Hydrocarbons (TPH) in the Gasoline Range Organics (GRO) ranged from non-detectable at the method reporting limit (MRL) to 23 milligrams per liter (mg/L) in off-site monitoring well MW-24. Concentrations of benzene ranged from non-detectable at the MRL to 1.2 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 13th 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 Second Quarter 2013 sampling event included:

- Monitor depth to water in 43 groundwater monitoring wells;
- Remove and replace SPH absorbent socks in 9 wells;
- Purge 30 monitoring wells using low-flow sampling methods;
- Collect groundwater samples from 30 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 April 8, 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 April 8, 2013, 15 wells on April 9, 2013, and 12 wells on April 10, 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 select monitoring wells were also analyzed for:

- TPH diesel range organics (DRO) and heavy-oil range organics (HO) according to Northwest Method NWTPH-Dx (A-8, A-10, A-14R, MW-07R, MW-1, MW-2, MW-4, MW-5, MW-8, MW-12R, MW-16, MW-21, MW-22, MW-25, and SH-02R).

- Total Lead according to EPA Method SW6020/SW6020A (A-14R, A-21, A-23R,, A-28R, MW-07R, MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, MW-8, MW-9, MW-12R, MW-14, MW-23, MW-24, MW-25, and SH-02R).

- Dissolved Lead by EPA Method 200.8 (A-23R and MW-7).

In addition to these analyses, groundwater samples from select wells were also sampled for MNA geochemical indicator parameters to characterize biogeochemical conditions at the site to determine if conditions are conducive to ongoing natural attenuation. These MNA geochemical indicator parameters include the following:

- Nitrate and Sulfate by EPA Method 300.0 and Methane by Modified Method RSK-175 GC/FID (A-21, A-23R, A-27, MW-6, MW-7, MW-9, MW-14, MW-19, MW-21, MW-23, and MW-24).

- Sulfide by Method SM4500-S D (A-21, A-23R, A-27, A-28R, MW-07R, MW-2, MW-6, MW-7, MW-9, MW-12R, MW-14, MW-19, MW-21, MW-23, MW-24, and SH-02R).

- Ferrous Iron by Method SM3500-Fe B (A-23R, A-27, MW-6, MW-7, MW-9, MW-14, MW-19, MW-21, MW-23, and MW-24).

Blind duplicate samples were collected from MW-7 and MW-24. Groundwater analytical results are presented in **Table 2**. Dissolved oxygen field measurements and

MNA parameters are presented in **Table 3**. 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. This is the sixth consecutive quarter without observed SPH. SPH levels at the site continue a decreasing trend. 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 Second Quarter 2013 monitoring event, groundwater conditions at the site remained consistent with previous monitoring events. Groundwater elevations during this sampling event ranged between 6.35 feet amsl (A-6) and 9.57 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. Duplicate samples were collected from MW-7 and MW-24 and were both analyzed for GRO and BTEX. 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 Second Quarter 2013 monitoring event, groundwater samples collected contained the following constituents of concern:

- GRO concentrations ranging from less than the MRL to 23 milligrams per liter mg/L in off-site monitoring well MW-24;
- DRO concentrations ranging from less than the MRL to 0.97 (mg/L) in off-site monitoring well MW-22;
- Benzene concentrations ranging from less than the MRL to 1.2 mg/L in off-site monitoring well MW-24;
- Toluene concentrations ranging from less than the MRL to 0.150 mg/L in monitoring well MW-19;
- Ethylbenzene concentrations ranging from less than the MRL to 1.7 mg/L in off-site monitoring well MW-24;
- Total xylenes concentrations ranging from less than the MRL to 4.1 mg/L in off-site monitoring well MW-24; and
- Total lead concentrations ranging from less than the MRL to 0.046 mg/L in monitoring well MW-8.

Analytical results for groundwater samples collected from the following monitoring wells did not contain COC concentrations at or above the laboratory reporting limit: A-14R, A-23R, MW-1, MW-2, MW-3, MW-5, MW-6, MW-9, MW-14, MW-16, MW-07R, and SH-02R.

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. At this time decreasing concentration trends continue at the site. An upcoming remedial action has been designed to accelerate this decreasing trend.

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 Second Quarter 2013 sampling event and no SPH has been observed for six quarters. Decreasing concentration trends continue at the site. An Ecology-approved remedial action for B-Yard and D-Yard will be completed in the 2nd and 3rd quarter of 2013 and is designed to accelerate these decreasing trends.

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	
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	

Table 1

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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	09/11/06	14.32	8.46	--	5.86	
A-3	12/11/06	14.32	7.56	--	6.76	
A-4	02/11/02	10.74	7.38	0.14	3.47*	
A-4	05/20/02	10.74	8.20	0.02	2.56*	
A-4	08/27/02	10.74	7.62	0.04	3.15*	
A-4	11/04/02	10.74	7.92	Sheen	2.82	Product recovery pump in well
A-4	02/18/03	10.74	7.84	Sheen	2.90	Product recovery pump in well
A-4	06/09/03	10.74	6.40	0.10	4.42*	Product recovery pump in well
A-4	09/15/03	13.22	8.38	0.10	4.92*	Product recovery pump in well
A-4	11/18/03	13.22	6.65	0.01	6.58*	Product recovery pump in well
A-4	02/24/04	13.22	7.00	--	6.22	Product recovery pump in well
A-4	05/10/04	13.22	6.79	--	6.43	Product recovery pump in well
A-4	08/24/04	13.22	7.76	--	5.46	Product recovery pump in well
A-4	12/13/04	13.22	6.10	Sheen	7.12	
A-4	03/08/05	13.22	7.21	Sheen	6.01	
A-4	06/06/05	13.22	7.23	Sheen	5.99	
A-4	09/19/05	13.22	7.78	--	5.44	
A-4	12/12/05	13.22	7.77	--	5.45	
A-4	03/13/06	13.22	6.85	--	6.37	
A-4	06/05/06	13.22	7.30	Sheen	5.92	
A-4	09/11/06	13.22	8.02	0.01	5.21*	
A-4	12/11/06	13.22	7.04	--	6.18	
A-4	03/26/07	13.22	6.90	--	6.32	
A-4	06/18/07	13.22	7.29	--	5.93	
A-4	09/24/07	13.22	7.48	Sheen	5.74	
A-4	12/10/07	13.22	6.83	--	6.39	
A-4	03/03/08	13.22	7.11	0.01	6.12*	
A-4	06/02/08	13.22	7.52	Sheen	5.70	
A-4	09/04/08	13.22	7.57	Sheen	5.65	
A-4	12/04/08	13.22	7.44	--	5.78	
A-4	03/04/09	13.22	7.09	--	6.13	
A-4	06/01/09	13.22	7.32	Sheen	5.90	
A-4	09/21/09	13.22	7.61	Sheen	5.61	
A-4	11/16/09	13.22	6.97	Sheen	6.25	
A-4	03/08/10	13.22	6.54	--	6.68	
A-4	06/07/10	13.22	6.92	Sheen	6.30	
A-4	09/09/10	13.22	7.59	--	5.63	
A-4	11/16/10	13.22	7.11	--	6.11	
A-4	03/01/11	13.22	6.66	--	6.56	
A-4	05/23/11	13.22	6.84	Sheen	6.38	
A-4	08/29/11	13.22	7.50	--	5.72	
A-4	12/01/11	13.22	7.16	--	6.06	
A-4	03/01/12	13.22	--	--	--	Not Measured
A-4	05/30/12	13.22	6.88	--	6.34	
A-4	08/25/12	13.22	7.17	--	6.05	
A-4	11/07/12	13.22	6.77	--	6.45	
A-4	02/28/13	13.22	6.69	--	6.53	
A-4	04/08/13	13.22	6.83	--	6.39	
A-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	

Table 1

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Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-5	04/08/13	14.13	7.56	--	6.57	
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
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	

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	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-6	04/08/13	12.81	6.46	--	6.35	
A-7	02/11/02	9.50	6.25	--	3.25	
A-7	05/20/02	9.50	8.10	--	1.40	
A-7	08/27/02	9.50	7.40	--	2.10	
A-7	11/04/02	9.50	7.55	--	1.95	
A-7	02/18/03	9.50	7.53	--	1.97	
A-7	06/09/03	9.50	7.12	--	2.38	
A-7	09/15/03	13.43	7.45	--	5.98	
A-7	11/18/03	13.43	6.78	--	6.65	
A-7	02/24/04	13.43	6.89	--	6.54	
A-7	05/10/04	13.43	6.66	--	6.77	
A-7	08/24/04	13.43	7.67	--	5.76	
A-7	12/13/04	13.43	6.88	--	6.55	
A-7	03/08/05	13.43	4.45	--	8.98	
A-7	06/06/05	13.43	6.84	--	6.59	
A-7	09/19/05	13.43	7.47	--	5.96	
A-7	12/12/05	13.43	7.22	--	6.21	
A-7	03/13/06	13.43	6.41	--	7.02	
A-7	06/05/06	13.43	6.90	--	6.53	
A-7	09/11/06	13.43	7.53	--	5.90	
A-7	12/11/06	13.43	6.69	--	6.74	
A-8	02/11/02	10.46	6.98	--	3.48	
A-8	05/20/02	10.46	8.87	--	1.59	
A-8	08/27/02	10.46	7.26	--	3.20	
A-8	11/04/02	10.46	8.51	--	1.95	
A-8	02/18/03	10.46	4.83	--	5.63	
A-8	06/09/03	10.46	8.11	--	2.35	
A-8	09/15/03	14.61	8.38	--	6.23	
A-8	11/18/03	14.61	7.87	Sheen	6.74	
A-8	02/24/04	14.61	7.43	--	7.18	
A-8	05/10/04	14.61	8.04	--	6.57	
A-8	08/24/04	14.61	8.18	--	6.43	
A-8	12/13/04	14.61	7.90	--	6.71	
A-8	03/08/05	14.61	8.11	--	6.50	

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	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	
A-8	05/30/12	14.61	7.87	--	6.74	
A-8	08/25/12	14.61	7.97	--	6.64	
A-8	11/07/12	14.61	7.63	--	6.98	
A-8	02/27/13	14.61	8.71	--	5.90	
A-8	04/08/13	14.61	7.67	--	6.94	
A-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	

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	06/09/03	9.48	7.15	--	2.33	
A-10	09/15/03	13.51	7.45	Sheen	6.06	
A-10	11/18/03	13.51	6.95	Sheen	6.56	
A-10	02/24/04	13.51	6.50	Sheen	7.01	
A-10	05/10/04	13.51	7.15	Sheen	6.36	
A-10	08/24/04	13.51	7.31	--	6.20	
A-10	12/13/04	13.51	6.95	--	6.56	
A-10	03/08/05	13.51	7.17	--	6.34	
A-10	06/06/05	13.51	7.01	--	6.50	
A-10	09/19/05	13.51	7.54	--	5.97	
A-10	12/12/05	13.51	7.25	--	6.26	
A-10	03/13/06	13.51	6.58	--	6.93	
A-10	06/05/06	13.51	6.92	--	6.59	
A-10	09/11/06	13.51	7.43	--	6.08	
A-10	12/11/06	13.51	6.59	--	6.92	
A-10	03/26/07	13.51	6.83	--	6.68	
A-10	06/18/07	13.51	7.29	--	6.22	
A-10	09/24/07	13.51	7.44	--	6.07	
A-10	12/10/07	13.51	6.79	--	6.72	
A-10	03/03/08	13.51	7.83	--	5.68	
A-10	06/02/08	13.51	7.31	--	6.20	
A-10	09/04/08	13.51	7.23	--	6.28	
A-10	12/04/08	13.51	6.87	--	6.64	
A-10	03/04/09	13.51	6.90	--	6.61	
A-10	06/01/09	13.51	7.18	--	6.33	
A-10	09/21/09	13.51	7.39	--	6.12	
A-10	11/16/09	13.51	6.84	--	6.67	
A-10	03/08/10	13.51	6.34	--	7.17	
A-10	06/07/10	13.51	6.84	--	6.67	
A-10	09/09/10	13.51	7.34	--	6.17	
A-10	11/15/10	13.51	6.93	--	6.58	
A-10	03/01/11	13.51	6.60	--	6.91	
A-10	05/23/11	13.51	6.68	--	6.83	
A-10	08/29/11	13.51	7.25	--	6.26	
A-10	12/01/11	13.51	6.96	--	6.55	
A-10	03/01/12	13.51	6.72	--	6.79	
A-10	05/30/12	13.51	6.72	--	6.79	
A-10	08/25/12	13.51	7.30	--	6.21	
A-10	11/07/12	13.51	7.08	--	6.43	
A-10	02/27/13	13.51	6.64	--	6.87	
A-10	04/08/13	13.51	6.61	--	6.90	
A-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	

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	03/13/06	14.40	7.40	--	7.00	
A-11	06/05/06	14.40	7.80	--	6.60	
A-11	09/11/06	14.40	8.32	--	6.08	
A-11	12/11/06	14.40	7.42	--	6.98	
A-11	12/10/07	14.40	7.64	--	6.76	
A-11	03/03/08	14.40	7.39	--	7.01	
A-11	03/04/09	14.40	7.70	--	6.70	
A-11	06/01/09	14.40	8.00	--	6.40	
A-11	09/21/09	14.40	8.26	--	6.14	
A-11	11/16/09	14.40	7.65	--	6.75	
A-11	03/08/10	14.40	7.20	--	7.20	
A-11	06/07/10	14.40	7.69	--	6.71	
A-11	09/09/10	14.40	8.20	--	6.20	
A-11	11/15/10	14.40	7.78	--	6.62	
A-11	03/01/11	14.40	7.43	--	6.97	
A-11	05/23/11	14.40	7.52	--	6.88	
A-11	08/29/11	14.40	8.09	--	6.31	
A-11	12/01/11	14.40	7.82	--	6.58	
A-11	03/01/12	14.40	7.55	--	6.85	
A-11	05/30/12	14.40	7.42	--	6.98	
A-11	08/25/12	14.40	7.63	--	6.77	
A-11	11/07/12	14.40	7.41	--	6.99	
A-11	02/27/13	14.40	7.42	--	6.98	
A-11	04/08/13	14.40	7.42	--	6.98	
A-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	

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-12	03/01/12	12.95	6.46	--	6.49	
A-12	05/30/12	12.95	6.35	--	6.60	
A-12	08/25/12	12.95	6.57	--	6.38	
A-12	11/07/12	12.95	6.27	--	6.68	
A-12	02/27/13	12.95	6.32	--	6.63	
A-12	04/08/13	12.95	6.28	--	6.67	
A-13	03/27/01	--	--	--	--	Destroyed during construction activities
A-13		**Destroyed during construction activities**				
A-14	03/27/01	--	--	--	--	Destroyed during construction activities
A-14		**Destroyed during construction activities**				
A-14R	02/11/02	12.62	6.90	--	5.72	
A-14R	05/20/02	12.62	9.77	--	2.85	
A-14R	08/27/02	12.62	8.10	--	4.52	
A-14R	11/04/02	12.62	8.30	--	4.32	
A-14R	02/18/03	10.17	7.31	--	2.86	
A-14R	06/09/03	10.17	4.82	--	5.35	
A-14R	09/15/03	14.21	8.20	--	6.01	
A-14R	11/18/03	14.21	6.10	Sheen	8.11	
A-14R	02/24/04	14.21	7.23	--	6.98	
A-14R	05/10/04	14.21	7.89	--	6.32	
A-14R	08/24/04	14.21	8.01	--	6.20	
A-14R	12/13/04	14.21	7.75	--	6.46	
A-14R	03/08/05	14.21	7.87	--	6.34	
A-14R	06/06/05	14.21	7.71	--	6.50	
A-14R	09/19/05	14.21	8.16	0.15	6.17*	
A-14R	10/12/05	14.21	8.01	--	6.20	
A-14R	12/12/05	14.21	7.95	--	6.26	
A-14R	03/13/06	14.21	7.26	--	6.95	
A-14R	06/05/06	14.21	7.64	--	6.57	
A-14R	09/11/06	14.21	8.15	--	6.06	
A-14R	12/11/06	14.21	7.30	--	6.91	
A-14R	03/26/07	14.21	7.51	--	6.70	
A-14R	06/18/07	14.21	7.98	--	6.23	
A-14R	09/24/07	14.21	8.18	--	6.03	
A-14R	12/10/07	14.21	7.51	--	6.70	
A-14R	03/03/08	14.21	7.56	--	6.65	
A-14R	06/02/08	14.21	8.02	--	6.19	
A-14R	09/04/08	14.21	7.71	--	6.50	
A-14R	12/04/08	14.21	7.92	--	6.29	
A-14R	03/04/09	14.21	7.62	--	6.59	
A-14R	06/01/09	14.21	7.91	--	6.30	
A-14R	09/21/09	14.21	8.08	--	6.13	
A-14R	11/16/09	14.21	7.57	--	6.64	
A-14R	03/08/10	14.21	7.05	--	7.16	
A-14R	06/07/10	14.21	7.56	--	6.65	
A-14R	09/09/10	14.21	8.05	--	6.16	
A-14R	11/15/10	14.21	7.63	--	6.58	
A-14R	03/01/11	14.21	7.31	--	6.90	
A-14R	05/23/11	14.21	7.40	--	6.81	
A-14R	08/29/11	14.21	7.97	--	6.24	
A-14R	12/01/11	14.21	7.68	--	6.53	
A-14R	03/01/12	14.21	7.42	--	6.79	
A-14R	05/30/12	14.21	7.44	--	6.77	
A-14R	08/25/12	14.21	7.59	--	6.62	
A-14R	11/07/12	14.21	7.33	--	6.88	
A-14R	02/27/13	14.21	7.38	--	6.83	
A-14R	04/08/13	14.21	7.34	--	6.87	

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-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	
A-16	02/24/04	14.39	7.54	--	6.85	
A-16	05/10/04	14.39	8.50	0.31	6.14*	
A-16	08/24/04	14.39	9.03	0.82	6.02*	
A-16	12/13/04	14.39	8.08	Sheen	6.31	
A-16	03/08/05	14.39	7.90	Sheen	6.49	
A-16	06/06/05	14.39	8.05	Sheen	6.34	
A-16	09/19/05	14.39	9.24	0.90	5.87*	
A-16	10/12/05	14.39	9.38	1.20	5.97*	
A-16	12/12/05	14.39	8.22	--	6.17	
A-16	03/13/06	14.39	7.75	--	6.64	
A-16	06/05/06	14.39	7.98	--	6.41	
A-16	09/11/06	14.39	9.20	0.90	5.91*	
A-16	12/11/06	14.39	7.69	Sheen	6.70	
A-16	03/26/07	14.39	7.78	Sheen	6.61	
A-16	06/18/07	14.39	8.45	0.34	6.21*	
A-16	09/24/07	14.39	8.45	0.02	5.96*	
A-16	12/10/07	14.39	7.65	0.01	6.75*	
A-16	03/03/08	14.39	7.88	Sheen	6.51	
A-16	06/02/08	14.39	8.77	0.04	5.65*	
A-16	09/04/08	14.39	7.38	0.04	7.04*	
A-16	12/04/08	14.39	8.27	--	6.12	
A-16	03/04/09	14.39	7.95	--	6.44	
A-16	06/01/09	14.39	8.50	Sheen	5.89	
A-16	09/21/09	14.39	8.80	0.35	5.87*	
A-16	11/16/09	14.39	7.95	Sheen	6.44	
A-16	03/08/10	14.39	7.40	--	6.99	
A-16	06/07/10	14.39	7.91	Sheen	6.48	
A-16	09/09/10	14.39	8.92	0.09	5.54*	
A-16	11/15/10	14.39	8.21	Sheen	6.18	
A-16	03/01/11	14.39	7.65	--	6.74	
A-16	05/23/11	14.39	7.79	--	6.60	
A-16	08/29/11	14.39	8.52	0.10	5.95*	
A-16	12/01/11	14.39	8.24	Sheen	6.15	
A-16	03/01/12	14.39	7.94	Sheen	6.45	
A-16	05/30/12	14.39	7.67	--	6.72	
A-16	08/25/12	14.39	7.79	--	6.60	
A-16	11/07/12	14.39	7.56	--	6.83	
A-16	02/27/13	14.39	7.66	--	6.73	
A-16	04/08/13	14.39	7.56	--	6.83	
A-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	

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	05/10/04	13.41	7.11	--	6.30	
A-17	08/24/04	13.41	7.12	--	6.29	
A-17	12/13/04	13.41	6.90	--	6.51	
A-17	03/08/05	13.41	7.15	--	6.26	
A-17	06/06/05	13.41	6.89	--	6.52	
A-17	09/19/05	13.41	7.55	--	5.86	
A-17	12/12/05	13.41	7.24	--	6.17	
A-17	03/13/06	13.41	6.50	--	6.91	
A-17	06/05/06	13.41	6.94	--	6.47	
A-17	09/11/06	13.41	8.34	--	5.07	
A-17	12/11/06	13.41	6.79	--	6.62	
A-18	02/11/02	10.72	7.42	--	3.30	
A-18	05/20/02	10.72	9.22	--	1.50	
A-18	08/27/02	10.72	8.59	--	2.13	
A-18	11/04/02	10.72	9.80	--	0.92	
A-18	02/18/03	10.72	8.36	--	2.36	
A-18	06/09/03	10.72	8.36	--	2.36	
A-18	09/15/03	14.74	8.65	--	6.09	
A-18	11/18/03	14.74	8.22	--	6.52	
A-18	02/24/04	14.74	7.06	--	7.68	
A-18	05/10/04	14.74	8.50	--	6.24	
A-18	08/24/04	14.74	8.56	--	6.18	
A-18	12/13/04	14.74	8.23	--	6.51	
A-18	03/08/05	14.74	8.33	--	6.41	
A-18	06/06/05	14.74	8.21	--	6.53	
A-18	09/19/05	14.74	8.67	0.02	6.09*	
A-18	10/12/05	14.74	8.55	--	6.19	
A-18	12/12/05	14.74	8.42	--	6.32	
A-18	03/13/06	14.74	7.74	--	7.00	
A-18	06/05/06	14.74	8.14	--	6.60	
A-18	09/11/06	14.74	8.63	--	6.11	
A-18	12/11/06	14.74	7.78	--	6.96	
A-18	12/10/07	14.74	7.81	--	6.93	
A-18	03/03/08	14.74	8.03	--	6.71	
A-18	03/04/09	14.74	8.07	--	6.67	
A-18	06/01/09	14.74	8.34	--	6.40	
A-18	09/21/09	14.74	8.57	--	6.17	
A-18	11/16/09	14.74	8.07	--	6.67	
A-18	03/08/10	14.74	7.54	--	7.20	
A-18	06/07/10	14.74	8.00	--	6.74	
A-18	09/09/10	14.74	8.53	--	6.21	
A-18	11/15/10	14.74	8.11	--	6.63	
A-18	03/01/11	14.74	7.75	--	6.99	
A-18	05/23/11	14.74	7.85	--	6.89	
A-18	08/29/11	14.74	8.44	--	6.30	
A-18	12/01/11	14.74	8.11	--	6.63	
A-18	03/01/12	14.74	7.83	--	6.91	
A-18	05/30/12	14.74	7.75	--	6.99	
A-18	08/25/12	14.74	7.89	--	6.85	
A-18	11/07/12	14.74	7.68	--	7.06	
A-18	02/27/13	14.74	7.72	--	7.02	
A-18	04/08/13	14.74	7.05	--	7.69	
A-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

ARCADIS

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (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-19	04/08/13	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	
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	

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	03/13/06	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-20	04/08/13	14.19	6.96	--	7.23	
A-21	02/11/02	10.40	7.18	--	3.22	
A-21	05/20/02	10.40	9.88	Sheen	0.52	
A-21	08/27/02	10.40	8.28	--	2.12	
A-21	11/04/02	10.40	8.50	--	1.90	
A-21	02/18/03	10.40	7.47	--	2.93	
A-21	06/09/03	10.40	8.01	--	2.39	
A-21	09/15/03	14.35	8.65	--	5.70	
A-21	11/18/03	14.35	7.86	--	6.49	
A-21	02/24/04	14.35	7.43	--	6.92	
A-21	05/10/04	14.35	8.10	--	6.25	
A-21	08/24/04	14.35	8.29	--	6.06	
A-21	12/13/04	14.35	7.75	--	6.60	
A-21	03/08/05	14.35	8.00	--	6.35	
A-21	06/06/05	14.35	7.90	--	6.45	
A-21	09/19/05	14.35	8.24	--	6.11	
A-21	12/12/05	14.35	8.15	--	6.20	
A-21	03/13/06	14.35	7.38	--	6.97	
A-21	06/05/06	14.35	7.21	--	7.14	
A-21	09/11/06	14.35	8.31	--	6.04	
A-21	12/11/06	14.35	7.44	--	6.91	
A-21	03/26/07	14.35	7.64	--	6.71	
A-21	06/18/07	14.35	8.15	--	6.20	
A-21	09/25/07	14.35	8.30	--	6.05	
A-21	12/10/07	14.35	7.62	--	6.73	
A-21	03/03/08	14.35	7.67	--	6.68	
A-21	06/02/08	14.35	8.18	--	6.17	
A-21	09/04/08	14.35	8.09	--	6.26	
A-21	12/04/08	14.35	8.07	--	6.28	

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	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-21	04/08/13	14.35	7.23	--	7.12	
A-22	09/21/01	10.69	--	--	--	Destroyed
A-22			**Destroyed**			
A-22R	02/11/02	10.22	7.10	0.13	3.22*	
A-22R	05/20/02	10.22	9.72	0.08	0.56*	
A-22R	08/27/02	10.22	8.20	0.16	2.15*	
A-22R	11/04/02	10.22	8.30	0.15	2.04*	
A-22R	02/18/03	10.22	7.14	0.02	3.10*	
A-22R	06/09/03	10.22	7.82	--	2.40	
A-22R	09/15/03	14.11	8.40	0.01	5.72*	
A-22R	11/18/03	14.11	7.70	0.05	6.45*	
A-22R	02/24/04	14.11	7.01	Sheen	7.10	
A-22R	05/10/04	14.11	7.68	<0.01	6.43*	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	
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	

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	08/29/11	14.11	7.87	--	6.24	
A-22R	12/01/11	14.11	7.75	--	6.36	
A-22R	03/01/12	14.11	7.37	--	6.74	
A-22R	05/30/12	14.11	7.48	--	6.63	
A-22R	08/25/12	14.11	7.62	--	6.49	
A-22R	11/07/12	14.11	7.18	--	6.93	
A-22R	02/27/13	14.11	7.38	--	6.73	
A-22R	04/08/13	14.11	7.31	--	6.80	
A-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	
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-23R	04/08/13	15.57	8.63	--	6.94	
A-24	10/06/00	--	--	--	--	Destroyed during construction activities
A-24	**Destroyed during construction activities**					

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	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	
A-25	08/29/11	13.90	7.81	--	6.09	
A-25	12/01/11	13.90	7.52	--	6.38	
A-25	03/01/12	13.90	7.75	--	6.15	
A-25	05/30/12	13.90	7.30	--	6.60	
A-25	08/25/12	13.90	7.56	--	6.34	
A-25	11/07/12	13.90	7.11	--	6.79	
A-25	02/27/13	13.90	7.18	--	6.72	
A-25	04/08/13	13.90	7.08	--	6.82	
A-26	03/27/01	--	--	--	--	Destroyed during construction of utility trench
A-26	**Destroyed during construction of utility trench**					
A-26R	02/11/02	10.39	7.13	0.02	3.28*	
A-26R	05/20/02	10.39	9.79	--	0.60	
A-26R	08/27/02	10.39	8.23	0.02	2.18*	
A-26R	11/04/02	10.39	8.41	0.04	2.01*	
A-26R	02/18/03	10.39	7.29	--	3.10	
A-26R	06/09/03	10.39	7.92	--	2.47	
A-26R	09/15/03	14.19	8.31	--	5.88	
A-26R	11/18/03	14.19	7.64	Sheen	6.55	
A-26R	02/24/04	14.19	7.17	--	7.02	
A-26R	05/10/04	14.19	7.93	--	6.26	
A-26R	08/24/04	14.19	8.10	--	6.09	
A-26R	12/13/04	14.19	7.55	--	6.64	
A-26R	03/08/05	14.19	7.80	--	6.39	
A-26R	06/06/05	14.19	7.18	--	7.01	
A-26R	09/19/05	14.19	8.25	0.01	5.95*	

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-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	02/27/13	14.19	7.42	--	6.77	
A-26R	04/08/13	14.19	7.34	--	6.85	
A-27	02/11/02	13.45	10.05	--	3.40	
A-27	05/20/02	13.45	12.84	--	0.61	
A-27	08/27/02	13.45	11.31	--	2.14	
A-27	11/04/02	13.45	11.46	--	1.99	
A-27	02/18/03	13.45	10.32	--	3.13	
A-27	06/09/03	13.45	10.97	--	2.48	
A-27	09/15/03	17.22	11.38	--	5.84	
A-27	11/18/03	17.22	10.75	--	6.47	
A-27	02/24/04	17.22	10.15	--	7.07	
A-27	05/10/04	17.22	8.00	--	9.22	
A-27	08/24/04	17.22	11.15	--	6.07	
A-27	12/13/04	17.22	7.80	--	9.42	
A-27	03/08/05	17.22	10.83	--	6.39	
A-27	06/06/05	17.22	10.80	--	6.42	
A-27	09/19/05	17.22	11.32	--	5.90	
A-27	12/12/05	17.22	11.01	--	6.21	
A-27	03/13/06	17.22	10.17	--	7.05	
A-27	06/05/06	17.22	10.69	--	6.53	
A-27	09/11/06	17.22	11.30	--	5.92	
A-27	12/11/06	17.22	10.16	--	7.06	
A-27	03/26/07	17.22	10.41	--	6.81	
A-27	06/18/07	17.22	11.00	--	6.22	
A-27	09/24/07	17.22	11.20	--	6.02	
A-27	12/10/07	17.22	10.41	--	6.81	
A-27	03/03/08	17.22	10.54	--	6.68	
A-27	06/02/08	17.22	11.06	--	6.16	
A-27	09/04/08	17.22	11.50	--	5.72	
A-27	12/04/08	17.22	11.05	--	6.17	
A-27	03/04/09	17.22	10.64	--	6.58	
A-27	06/01/09	17.22	10.87	--	6.35	
A-27	09/21/09	17.22	11.25	--	5.97	
A-27	11/16/09	17.22	10.50	--	6.72	

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	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	02/27/13	17.22	10.28	--	6.94	
A-27	04/08/13	17.22	10.24	--	6.98	
A-28	06/14/01	--	--	--	--	Destroyed during construction activities
A-28			**Destroyed during construction activities**			
A-28R	02/11/02	11.19	7.72	--	3.47	
A-28R	05/20/02	11.19	9.51	--	1.68	
A-28R	08/27/02	11.19	8.97	--	2.22	
A-28R	11/04/02	11.19	9.20	--	1.99	
A-28R	02/18/03	11.19	8.20	--	2.99	
A-28R	06/09/03	11.19	8.67	--	2.52	
A-28R	09/15/03	14.93	9.05	--	5.88	
A-28R	11/18/03	14.93	8.45	--	6.48	
A-28R	02/24/04	14.93	7.91	--	7.02	
A-28R	05/10/04	14.93	8.66	--	6.27	
A-28R	08/24/04	14.93	7.90	--	7.03	
A-28R	12/13/04	14.93	8.58	--	6.35	
A-28R	03/08/05	14.93	8.67	--	6.26	
A-28R	06/06/05	14.93	8.47	--	6.46	
A-28R	09/19/05	14.93	8.99	--	5.94	
A-28R	12/12/05	14.93	7.71	--	7.22	
A-28R	03/13/06	14.93	7.79	--	7.14	
A-28R	06/05/06	14.93	9.13	--	5.80	
A-28R	09/11/06	14.93	9.00	--	5.93	
A-28R	12/11/06	14.93	7.89	--	7.04	
A-28R	03/26/07	14.93	8.05	--	6.88	
A-28R	06/18/07	14.93	8.64	--	6.29	
A-28R	09/24/07	14.93	8.81	--	6.12	
A-28R	12/10/07	14.93	8.01	--	6.92	
A-28R	03/03/08	14.93	8.17	--	6.76	
A-28R	06/02/08	14.93	8.64	--	6.29	
A-28R	09/04/08	14.93	8.73	--	6.20	
A-28R	12/04/08	14.93	8.69	--	6.24	
A-28R	03/04/09	14.93	8.29	--	6.64	
A-28R	06/01/09	14.93	8.51	--	6.42	
A-28R	09/21/09	14.93	8.92	--	6.01	
A-28R	11/16/09	14.93	8.21	--	6.72	
A-28R	03/08/10	14.93	7.61	--	7.32	
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	

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	08/25/12	14.93	8.35	--	6.58	
A-28R	11/07/12	14.93	7.89	--	7.04	
A-28R	02/27/13	14.93	7.78	--	7.15	
A-28R	04/08/13	14.93	7.67	--	7.26	
A-29	03/27/01	--	--	--	--	Destroyed during construction of utility trench
A-29	**Destroyed during construction activities of utility trench**					
A-29R	02/11/02	10.12	6.78	--	3.34	
A-29R	05/20/02	10.12	8.53	--	1.59	
A-29R	08/27/02	10.12	7.92	--	2.20	
A-29R	11/04/02	10.12	8.09	--	2.03	
A-29R	02/18/03	10.12	7.05	--	3.07	
A-29R	02/19/03	10.12	7.05	--	3.07	
A-29R	06/09/03	10.12	7.61	--	2.51	
A-29R	09/15/03	13.85	8.00	--	5.85	
A-29R	11/18/03	13.85	7.50	--	6.35	
A-29R	02/24/04	13.85	6.97	--	6.88	
A-29R	05/10/04	13.85	7.66	--	6.19	
A-29R	08/24/04	13.85	7.43	--	6.42	
A-29R	12/13/04	13.85	7.46	--	6.39	
A-29R	03/08/05	13.85	7.65	--	6.20	
A-29R	06/06/05	13.85	7.51	--	6.34	
A-29R	09/19/05	13.85	8.02	--	5.83	
A-29R	12/12/05	13.85	7.75	--	6.10	
A-29R	03/13/06	13.85	--	--	--	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	**Abandoned**					
4	02/11/02	7.97	3.86	--	4.11	
4	05/20/02	7.97	6.07	--	1.90	
4	08/27/02	7.97	5.17	--	2.80	
4	11/04/02	7.97	5.40	--	2.57	
4	02/18/03	7.97	3.78	--	4.19	
4	02/19/03	7.97	3.78	--	4.19	
4	06/09/03	7.97	4.75	--	3.22	
4	09/15/03	11.01	5.37	--	5.64	Casing Broken
4	11/18/03	11.01	4.33	--	6.68	Casing Broken
4	02/24/04	11.01	3.91	--	7.10	Casing Broken
4	05/10/04	11.01	4.75	--	6.26	Casing Broken
4	08/24/04	11.01	4.94	--	6.07	Casing Broken
4	12/13/04	11.01	4.17	--	6.84	Casing Broken
4	03/08/05	11.01	3.80	--	7.21	Casing Broken
4	06/06/05	11.01	4.63	--	6.38	Casing Broken

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
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			**Abandoned**			
6	02/11/02	9.15	4.50	--	4.65	
6	05/20/02	9.15	6.88	--	2.27	
6	08/27/02	9.15	6.65	--	2.50	
6	11/04/02	9.15	6.99	--	2.16	
6	02/18/03	9.15	5.14	--	4.01	
6	06/09/03	9.15	6.24	--	2.91	
6	09/15/03	12.76	6.95	--	5.81	
6	11/18/03	12.76	5.56	--	7.20	
6	02/24/04	12.76	5.31	--	7.45	
6	05/10/04	12.76	6.24	--	6.52	
6	08/24/04	12.76	6.41	--	6.35	
6	12/13/04	12.76	4.28	--	8.48	
6	03/08/05	12.76	6.28	--	6.48	
6	06/06/05	12.76	5.94	--	6.82	
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	

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
7	09/11/06	12.72	6.98	--	5.74	
7	12/11/06	12.72	5.62	--	7.10	
8	02/11/02	9.42	5.20	--	4.22	
8	05/20/02	9.42	7.52	--	1.90	Casing Tilted
8	08/27/02	9.42	7.12	--	2.30	Casing Tilted
8	11/04/02	9.42	7.25	--	2.17	Casing Tilted
8	02/18/03	9.42	5.79	--	3.63	Casing Tilted
8	06/11/03	--	--	--	--	Abandoned
8			**Abandoned**			
9	02/11/02	9.36	4.26	--	5.10	
9	05/20/02	9.36	6.76	--	2.60	
9	08/27/02	9.36	6.38	--	2.98	
9	11/04/02	9.36	7.00	--	2.36	
9	02/18/03	9.36	4.94	--	4.42	
9	06/09/03	9.36	6.11	--	3.25	
9	09/15/03	12.89	6.96	--	5.93	
9	11/18/03	12.89	5.51	--	7.38	
9	02/24/04	12.89	5.19	--	7.70	
9	05/10/04	12.89	6.18	--	6.71	
9	08/24/04	12.89	3.46	--	9.43	
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	

Table 1

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
11	05/10/04	12.08	5.07	--	7.01	
11	08/24/04	12.08	5.02	--	7.06	
11	12/13/04	12.08	4.12	--	7.96	
11	03/08/05	12.08	4.99	--	7.09	
11	06/06/05	12.08	4.74	--	7.34	
11	09/19/05	12.08	5.93	--	6.15	
11	12/12/05	12.08	4.95	--	7.13	
11	03/13/06	12.08	3.64	--	8.44	
11	06/05/06	12.08	4.32	--	7.76	
11	09/11/06	12.08	5.82	--	6.26	
11	12/11/06	12.08	3.91	--	8.17	
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 well
12	02/24/04	9.79	1.20	0.03	8.61*	
12	05/10/04	9.79	2.80	--	6.99	
12	08/24/04	9.79	2.51	Sheen	7.28	
12	12/13/04	9.79	1.12	--	8.67	
12	03/08/05	9.79	2.87	--	6.92	
12	06/06/05	9.79	5.16	--	4.63	
12	09/19/05	9.79	3.49	0.01	6.31*	
12	12/12/05	9.79	2.40	--	7.39	
12	03/13/06	9.79	1.00	--	8.79	
12	06/05/06	9.79	1.27	--	8.52	
12	09/11/06	9.79	3.63	--	6.16	
12	12/11/06	9.79	1.31	--	8.48	
12	03/26/07	9.79	1.40	--	8.39	
12	06/18/07	9.79	2.74	--	7.05	
12	09/24/07	9.79	3.43	--	6.36	
12	12/10/07	9.79	1.88	Sheen	7.91	
12	03/03/08	9.79	2.04	Sheen	7.75	
12	06/02/08	9.79	2.98	--	6.81	
12	09/04/08	9.79	3.74	--	6.05	
12	12/04/08	9.79	2.79	Sheen	7.00	
12	03/04/09	9.79	2.25	Sheen	7.54	
12	06/01/09	9.79	2.31	Sheen	7.48	
12	09/21/09	9.79	3.30	Sheen	6.49	
12	11/16/09	9.79	1.62	Sheen	8.17	
12	03/08/10	9.79	1.34	Sheen	8.45	
12	06/07/10	9.79	1.62	Sheen	8.17	
12	09/09/10	9.79	3.28	Sheen	6.51	
12	11/15/10	9.79	1.92	--	7.87	
12	03/01/11	9.79	1.35	Sheen	8.44	
12	05/23/11	9.79	2.15	Sheen	7.64	
12	08/29/11	9.79	3.03	0.03	6.78*	
12	12/01/11	9.79	2.13	--	7.66	
12	03/01/12	9.79	1.65	Sheen	8.14	
12	05/30/12	9.79	1.63	Sheen	8.16	
12	08/25/12	9.79	2.89	--	6.90	
12	11/07/12	9.79	1.46	--	8.33	
12	02/27/13	9.79	1.43	--	8.36	
12	04/08/13	9.79	0.24	--	9.55	

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
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			**Abandoned**			
14	06/11/03	--	--	--	--	Abandoned
14			**Abandoned**			
15	02/11/02	8.69	3.45	--	5.24	Casing Damaged
15	05/20/02	8.69	6.12	--	2.57	Casing Broken
15	08/27/02	8.69	5.94	--	2.75	Casing Broken
15	11/04/02	8.69	6.25	--	2.44	Casing Broken
15	02/18/03	8.69	3.71	--	4.98	Casing Broken
15	06/11/03	--	--	--	--	Abandoned
15			**Abandoned**			
16	02/11/02	9.73	4.50	--	5.23	
16	05/20/02	9.73	7.12	--	2.61	
16	08/27/02	9.73	7.14	--	2.59	
16	11/04/02	9.73	7.46	--	2.27	
16	02/18/03	9.73	5.12	--	4.61	
16	06/09/03	9.73	6.51	--	3.22	
16	09/15/03	13.29	7.37	--	5.92	
16	11/18/03	13.29	5.60	--	7.69	
16	02/24/04	13.29	5.46	--	7.83	
16	05/10/04	13.29	6.42	--	6.87	
16	08/24/04	13.29	6.81	--	6.48	
16	12/13/04	13.29	5.94	--	7.35	
16	03/08/05	13.29	6.51	--	6.78	
16	06/06/05	13.29	6.24	--	7.05	
16	09/19/05	13.29	7.30	--	5.99	
16	12/12/05	13.29	6.46	--	6.83	
16	03/13/06	13.29	5.20	--	8.09	
16	06/05/06	13.29	5.76	--	7.53	
16	09/11/06	13.29	7.21	--	6.08	
16	12/11/06	13.29	4.88	--	8.41	
17	02/11/02	11.48	6.39	--	5.09	
17	05/20/02	11.48	8.61	--	2.87	
17	08/27/02	11.48	8.68	--	2.80	
17	11/04/02	11.48	9.06	--	2.42	
17	02/18/03	11.48	6.92	--	4.56	
17	06/09/03	11.48	7.95	--	3.53	
17	09/15/03	15.06	8.89	--	6.17	
17	11/18/03	15.06	8.51	--	6.55	
17	02/24/04	15.06	6.45	--	8.61	
17	05/10/04	15.06	7.90	--	7.16	
17	08/24/04	15.06	8.45	--	6.61	
17	12/13/04	15.06	7.83	--	7.23	
17	03/08/05	15.06	7.81	--	7.25	
17	06/06/05	15.06	7.73	--	7.33	
17	09/19/05	15.06	8.75	--	6.31	
17	12/12/05	15.06	8.03	--	7.03	
17	03/13/06	15.06	6.57	--	8.49	
17	06/05/06	15.06	6.22	--	8.84	
17	09/11/06	15.06	8.68	--	6.38	
17	12/11/06	15.06	6.53	--	8.53	
19	02/11/02	9.13	3.75	--	5.38	
19	05/20/02	9.13	6.10	--	3.03	
19	08/27/02	9.13	6.28	--	2.85	

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
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	
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	

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
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	
23	09/11/06	12.55	6.13	--	6.42	
23	12/11/06	12.55	4.01	--	8.54	
24	06/11/03	--	--	--	--	Abandoned
24			**Abandoned**			
25	02/11/02	9.48	3.76	--	5.72	
25	05/20/02	9.48	6.19	--	3.29	
25	08/27/02	9.48	6.33	--	3.15	
25	11/04/02	9.48	6.74	--	2.74	Casing Tilted
25	02/18/03	9.48	4.13	--	5.35	Casing Tilted
25	06/11/03	--	--	--	--	Abandoned
25			**Abandoned**			
26	02/11/02	9.43	3.70	--	5.73	
26	05/20/02	9.43	--	--	--	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	

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
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	
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	

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	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-1	04/08/13	13.21	5.12	--	8.09	
MW-2	02/11/02	11.33	6.13	--	5.20	
MW-2	05/20/02	11.33	8.40	--	2.93	
MW-2	08/27/02	11.33	8.50	--	2.83	
MW-2	11/04/02	11.33	8.85	--	2.48	
MW-2	02/18/03	11.33	6.10	--	5.23	
MW-2	06/09/03	11.33	7.68	--	3.65	
MW-2	09/15/03	15.22	8.71	--	6.51	
MW-2	11/18/03	15.22	7.60	--	7.62	
MW-2	02/24/04	15.22	6.56	--	8.66	
MW-2	05/10/04	15.22	7.78	--	7.44	
MW-2	08/24/04	15.22	8.33	--	6.89	
MW-2	12/13/04	15.22	7.69	--	7.53	
MW-2	03/08/05	15.22	7.72	--	7.50	
MW-2	06/06/05	15.22	7.61	--	7.61	
MW-2	09/19/05	15.22	8.58	--	6.64	
MW-2	12/12/05	15.22	7.86	--	7.36	
MW-2	03/13/06	15.22	6.38	--	8.84	
MW-2	06/05/06	15.22	7.39	--	7.83	
MW-2	09/11/06	15.22	8.50	--	6.72	
MW-2	12/11/06	15.22	6.37	--	8.85	
MW-2	03/26/07	15.22	6.71	--	8.51	
MW-2	06/18/07	15.22	7.68	--	7.54	
MW-2	09/24/07	15.22	8.84	--	6.38	
MW-2	12/10/07	15.22	6.85	--	8.37	
MW-2	03/03/08	15.22	7.14	--	8.08	
MW-2	06/02/08	15.22	7.91	--	7.31	
MW-2	09/04/08	15.22	8.33	--	6.89	
MW-2	12/04/08	15.22	8.01	--	7.21	
MW-2	03/04/09	15.22	7.43	--	7.79	
MW-2	06/01/09	15.22	7.54	--	7.68	
MW-2	09/21/09	15.22	8.52	--	6.70	
MW-2	11/16/09	15.22	7.28	--	7.94	
MW-2	03/08/10	15.22	6.42	--	8.80	
MW-2	06/07/10	15.22	7.00	--	8.22	
MW-2	09/09/10	15.22	8.26	--	6.96	
MW-2	11/15/10	15.22	7.21	--	8.01	
MW-2	03/01/11	15.22	6.26	--	8.96	
MW-2	05/23/11	15.22	6.39	--	8.83	
MW-2	08/29/11	15.22	8.01	--	7.21	

Table 1

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
MW-2	12/01/11	15.22	7.56	--	7.66	
MW-2	03/01/12	15.22	7.03	--	8.19	
MW-2	05/30/12	15.22	6.97	--	8.25	
MW-2	08/25/12	15.22	7.88	--	7.34	
MW-2	11/07/12	15.22	7.34	--	7.88	
MW-2	02/27/13	15.22	6.59	--	8.63	
MW-2	04/08/13	15.22	6.36	--	8.86	
MW-3	02/11/02	7.49	1.82	--	5.67	
MW-3	05/20/02	7.49	4.27	--	3.22	
MW-3	08/27/02	7.49	4.50	--	2.99	
MW-3	11/04/02	7.49	4.92	--	2.57	
MW-3	02/18/03	7.49	2.38	--	5.11	
MW-3	06/09/03	7.49	3.67	--	3.82	
MW-3	09/15/03	11.39	4.81	--	6.58	
MW-3	11/18/03	11.39	2.97	--	8.42	
MW-3	02/24/04	11.39	2.45	--	8.94	
MW-3	05/10/04	11.39	3.64	--	7.75	
MW-3	08/24/04	11.39	4.14	--	7.25	
MW-3	12/13/04	11.39	3.22	--	8.17	
MW-3	03/08/05	11.39	3.70	--	7.69	
MW-3	06/06/05	11.39	3.51	--	7.88	
MW-3	09/19/05	11.39	4.65	--	6.74	
MW-3	12/12/05	11.39	3.81	--	7.58	
MW-3	03/13/06	11.39	2.43	--	8.96	
MW-3	06/05/06	11.39	3.05	--	8.34	
MW-3	09/11/06	11.39	4.58	--	6.81	
MW-3	12/11/06	11.39	2.00	--	9.39	
MW-3	03/26/07	11.39	2.46	--	8.93	
MW-3	06/18/07	11.39	3.81	--	7.58	
MW-3	09/24/07	11.39	4.58	--	6.81	
MW-3	12/10/07	11.39	2.53	--	8.86	
MW-3	03/03/08	11.39	3.10	--	8.29	
MW-3	06/02/08	11.39	3.88	--	7.51	
MW-3	09/04/08	11.39	4.27	--	7.12	
MW-3	12/04/08	11.39	3.99	--	7.40	
MW-3	03/04/09	11.39	3.28	--	8.11	
MW-3	06/01/09	11.39	3.48	--	7.91	
MW-3	09/21/09	11.39	4.51	--	6.88	
MW-3	11/16/09	11.39	2.97	--	8.42	
MW-3	03/08/10	11.39	2.32	--	9.07	
MW-3	06/07/10	11.39	2.86	--	8.53	
MW-3	09/09/10	11.39	4.23	--	7.16	
MW-3	11/15/10	11.39	2.99	--	8.40	
MW-3	03/01/11	11.39	1.86	--	9.53	
MW-3	05/23/11	11.39	2.03	--	9.36	
MW-3	08/29/11	11.39	4.02	--	7.37	
MW-3	12/01/11	11.39	3.27	--	8.12	
MW-3	03/01/12	11.39	2.99	--	8.40	
MW-3	05/30/12	11.39	2.93	--	8.46	
MW-3	08/25/12	11.39	3.90	--	7.49	
MW-3	11/07/12	11.39	3.10	--	8.29	
MW-3	02/27/13	11.39	2.23	--	9.16	
MW-3	04/08/13	11.39	2.04	--	9.35	
MW-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	

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	06/09/03	10.44	6.81	--	3.63	
MW-4	09/15/03	14.69	7.70	0.01	7.00*	
MW-4	11/18/03	14.69	6.71	Sheen	7.98	
MW-4	02/24/04	14.69	5.82	Sheen	8.87	
MW-4	05/10/04	14.69	6.93	Sheen	7.76	
MW-4	08/24/04	14.69	7.24	--	7.45	
MW-4	12/13/04	14.69	6.45	Sheen	8.24	
MW-4	03/08/05	14.69	6.94	--	7.75	
MW-4	06/06/05	14.69	6.71	--	7.98	
MW-4	09/19/05	14.69	7.67	--	7.02	
MW-4	12/12/05	14.69	6.97	--	7.72	
MW-4	03/13/06	14.69	5.77	--	8.92	
MW-4	06/05/06	14.69	6.42	--	8.27	
MW-4	09/11/06	14.69	7.61	--	7.08	
MW-4	12/11/06	14.69	5.81	--	8.88	
MW-4	03/26/07	14.69	5.96	--	8.73	
MW-4	06/18/07	14.69	6.99	--	7.70	
MW-4	09/25/07	14.69	7.46	--	7.23	
MW-4	12/10/07	14.69	5.93	--	8.76	
MW-4	03/03/08	14.69	6.44	--	8.25	
MW-4	06/02/08	14.69	7.37	--	7.32	
MW-4	09/04/08	14.69	7.20	--	7.49	
MW-4	12/04/08	14.69	7.77	--	6.92	
MW-4	03/04/09	14.69	6.68	--	8.01	
MW-4	06/01/09	14.69	6.78	--	7.91	
MW-4	09/21/09	14.69	7.56	--	7.13	
MW-4	11/16/09	14.69	6.34	--	8.35	
MW-4	03/08/10	14.69	5.86	--	8.83	
MW-4	06/07/10	14.69	6.27	--	8.42	
MW-4	09/09/10	14.69	7.40	--	7.29	
MW-4	11/15/10	14.69	6.39	--	8.30	
MW-4	03/01/11	14.69	5.70	--	8.99	
MW-4	05/23/11	14.69	5.74	--	8.95	
MW-4	08/29/11	14.69	7.25	--	7.44	
MW-4	12/01/11	14.69	6.52	--	8.17	
MW-4	03/01/12	14.69	6.38	--	8.31	
MW-4	05/30/12	14.69	6.33	--	8.36	
MW-4	08/25/12	14.69	7.05	--	7.64	
MW-4	11/07/12	14.69	6.31	--	8.38	
MW-4	02/27/13	14.69	6.02	--	8.67	
MW-4	04/08/13	14.69	5.74	--	8.95	
MW-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	

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	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	
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-5	04/08/13	11.13	1.69	--	9.44	
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	

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	06/01/09	15.17	7.54	--	7.63	
MW-6	09/21/09	15.17	8.42	--	6.75	
MW-6	11/16/09	15.17	7.30	--	7.87	
MW-6	03/08/10	15.17	6.45	--	8.72	
MW-6	06/07/10	15.17	7.09	--	8.08	
MW-6	09/09/10	15.17	8.10	--	7.07	
MW-6	11/15/10	15.17	7.21	--	7.96	
MW-6	03/01/11	15.17	6.24	--	8.93	
MW-6	05/23/11	15.17	6.42	--	8.75	
MW-6	08/29/11	15.17	7.92	--	7.25	
MW-6	12/01/11	15.17	7.45	--	7.72	
MW-6	03/01/12	15.17	6.97	--	8.20	
MW-6	05/30/12	15.17	6.91	--	8.26	
MW-6	08/25/12	15.17	7.09	--	8.08	
MW-6	11/07/12	15.17	7.12	--	8.05	
MW-6	02/27/13	15.17	6.59	--	8.58	
MW-6	04/08/13	15.17	6.22	--	8.95	
MW-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	

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	05/30/12	10.62	2.82	--	7.80	
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-7	04/08/13	10.62	1.88	--	8.74	
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-8	04/08/13	10.63	2.41	--	8.22	
MW-9	02/11/02	6.14	2.03	0.02	4.13*	
MW-9	05/20/02	6.14	4.16	0.01	1.99*	
MW-9	08/27/02	6.14	5.85	0.01	0.30*	
MW-9	11/04/02	6.14	4.07	0.01	2.08*	
MW-9	02/18/03	6.14	2.35	0.01	3.80*	
MW-9	06/09/03	6.14	3.53	--	2.61	
MW-9	09/15/03	9.75	3.99	Sheen	5.76	

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	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-9	04/08/13	9.75	2.02	--	7.73	
MW-10D	03/27/01	--	--	--	--	Destroyed during construction activities in 2000
MW-10D	09/24/07	9.75	3.88	--	5.87	
MW-10D		**Destroyed during construction activities in 2000**				
MW-11D	02/11/02	6.81	3.75	--	3.06	
MW-11D	05/20/02	6.81	5.27	0.02	1.56*	
MW-11D	08/27/02	6.81	4.70	0.01	2.12*	
MW-11D	11/04/02	6.81	4.93	--	1.88	
MW-11D	02/18/03	6.81	3.59	--	3.22	
MW-11D	06/09/03	6.81	4.55	--	2.26	
MW-11D	09/15/03	10.78	4.91	--	5.87	
MW-11D	11/18/03	10.78	4.28	--	6.50	
MW-11D	02/24/04	10.78	3.71	--	7.07	
MW-11D	05/10/04	10.78	4.35	--	6.43	
MW-11D	08/24/04	10.78	4.13	--	6.65	
MW-11D	12/13/04	10.78	4.26	--	6.52	
MW-11D	03/08/05	10.78	4.58	--	6.20	
MW-11D	06/06/05	10.78	4.43	--	6.35	
MW-11D	09/19/05	10.78	4.89	--	5.89	
MW-11D	12/12/05	10.78	4.64	--	6.14	

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	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	
MW-12R	08/29/11	15.47	8.07	--	7.40	
MW-12R	12/01/11	15.47	7.51	--	7.96	
MW-12R	03/01/12	15.47	7.31	--	8.16	
MW-12R	05/30/12	15.47	7.30	--	8.17	
MW-12R	08/25/12	15.47	7.89	--	7.58	
MW-12R	11/07/12	15.47	7.34	--	8.13	
MW-12R	02/27/13	15.47	7.02	--	8.45	
MW-12R	04/08/13	15.47	6.88	--	8.59	
MW-13	02/11/02	--	--	--	--	Destroyed during construction activities
MW-13		**Destroyed during construction activities**				
MW-13R	02/11/02	10.99	5.95	--	5.04	
MW-13R	05/20/02	10.99	8.08	--	2.91	
MW-13R	08/27/02	10.99	7.93	--	3.06	
MW-13R	11/04/02	10.99	8.30	--	2.69	

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-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			**Abandoned on 5/25/2012**			
MW-14	02/11/02	7.55	1.65	--	5.90	
MW-14	05/20/02	7.55	4.46	--	3.09	
MW-14	08/27/02	7.55	4.58	--	2.97	
MW-14	11/04/02	7.55	5.95	--	1.60	
MW-14	02/18/03	7.55	2.60	--	4.95	
MW-14	06/09/03	7.55	3.86	--	3.69	
MW-14	09/15/03	11.44	5.11	--	6.33	
MW-14	11/18/03	11.44	3.30	--	8.14	
MW-14	02/24/04	11.44	2.55	--	8.89	
MW-14	05/10/04	11.44	3.92	--	7.52	
MW-14	08/24/04	11.44	4.23	--	7.21	
MW-14	12/13/04	11.44	3.28	--	8.16	
MW-14	03/08/05	11.44	3.71	--	7.73	
MW-14	06/06/05	11.44	3.37	--	8.07	
MW-14	09/19/05	11.44	4.79	--	6.65	
MW-14	12/12/05	11.44	3.72	--	7.72	
MW-14	03/13/06	11.44	2.40	--	9.04	
MW-14	06/05/06	11.44	3.07	--	8.37	
MW-14	09/11/06	11.44	4.90	--	6.54	

Table 1

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

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

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	09/15/03	15.23	8.55	--	6.68	
MW-16	11/18/03	15.23	7.69	--	7.54	
MW-16	02/24/04	15.23	6.40	--	8.83	
MW-16	05/10/04	15.23	7.60	--	7.63	
MW-16	08/24/04	15.23	8.21	--	7.02	
MW-16	12/13/04	15.23	7.80	--	7.43	
MW-16	03/08/05	15.23	7.55	--	7.68	
MW-16	06/06/05	15.23	7.38	--	7.85	
MW-16	09/19/05	15.23	8.40	--	6.83	
MW-16	12/12/05	15.23	7.69	--	7.54	
MW-16	03/13/06	15.23	6.16	--	9.07	
MW-16	06/05/06	15.23	7.22	--	8.01	
MW-16	09/11/06	15.23	8.32	--	6.91	
MW-16	12/11/06	15.23	6.40	--	8.83	
MW-16	03/26/07	15.23	6.53	--	8.70	
MW-16	06/18/07	15.23	7.60	--	7.63	
MW-16	09/24/07	15.23	8.36	--	6.87	
MW-16	12/10/07	15.23	6.85	--	8.38	
MW-16	03/03/08	15.23	6.95	--	8.28	
MW-16	06/02/08	15.23	7.62	--	7.61	
MW-16	09/04/08	15.23	8.07	--	7.16	
MW-16	12/04/08	15.23	7.82	--	7.41	
MW-16	03/04/09	15.23	7.47	--	7.76	
MW-16	06/01/09	15.23	7.37	--	7.86	
MW-16	09/21/09	15.23	8.33	--	6.90	
MW-16	11/16/09	15.23	7.30	--	7.93	
MW-16	03/08/10	15.23	6.34	--	8.89	
MW-16	06/07/10	15.23	6.87	--	8.36	
MW-16	09/09/10	15.23	8.04	--	7.19	
MW-16	11/15/10	15.23	7.14	--	8.09	
MW-16	03/01/11	15.23	6.12	--	9.11	
MW-16	05/23/11	15.23	6.22	--	9.01	
MW-16	08/29/11	15.23	7.97	--	7.26	
MW-16	12/01/11	15.23	7.45	--	7.78	
MW-16	03/01/12	15.23	6.81	--	8.42	
MW-16	05/30/12	15.23	6.71	--	8.52	
MW-16	08/25/12	15.23	7.57	--	7.66	
MW-16	11/07/12	15.23	7.20	--	8.03	
MW-16	02/27/13	15.23	6.18	--	9.05	
MW-16	04/08/13	15.23	6.28	--	8.95	
MW-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	

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-17	09/11/06	15.38	8.52	--	6.86	
MW-17	12/11/06	15.38	6.49	--	8.89	
MW-17	05/23/11	15.38	6.30	--	9.08	
MW-17	08/29/11	15.38	6.30	--	9.08	
MW-18	02/11/02	11.29	5.97	--	5.32	
MW-18	05/20/02	11.29	8.20	--	3.09	
MW-18	08/27/02	11.29	7.34	--	3.95	
MW-18	11/04/02	11.29	8.73	--	2.56	
MW-18	02/18/03	11.29	6.45	--	4.84	
MW-18	06/09/03	11.29	7.59	--	3.70	
MW-18	09/15/03	15.49	8.65	--	6.84	
MW-18	11/18/03	15.49	7.68	--	7.81	
MW-18	02/24/04	15.49	6.38	--	9.11	
MW-18	05/10/04	15.49	7.65	--	7.84	
MW-18	08/24/04	15.49	8.17	--	7.32	
MW-18	12/13/04	15.49	7.61	--	7.88	
MW-18	03/08/05	15.49	7.47	--	8.02	
MW-18	06/06/05	15.49	7.41	--	8.08	
MW-18	09/19/05	15.49	8.43	--	7.06	
MW-18	12/12/05	15.49	7.70	--	7.79	
MW-18	03/13/06	15.49	6.23	--	9.26	
MW-18	06/05/06	15.49	7.31	--	8.18	
MW-18	09/11/06	15.49	8.34	--	7.15	
MW-18	12/11/06	15.49	6.34	--	9.15	
MW-18	03/26/07	15.49	6.59	--	8.90	
MW-18	06/18/07	15.49	7.66	--	7.83	
MW-18	09/24/07	15.49	8.40	--	7.09	
MW-18	12/10/07	15.49	6.68	--	8.81	
MW-18	03/03/08	15.49	6.98	--	8.51	
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-18	04/08/13	15.49	6.39	--	9.10	
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	

Table 1

ARCADIS

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
MW-19	09/04/08	11.39	3.98	--	7.41	
MW-19	12/04/08	11.39	3.68	--	7.71	
MW-19	03/04/09	11.39	3.03	--	8.36	
MW-19	06/01/09	11.39	3.23	--	8.16	
MW-19	09/21/09	11.39	4.23	--	7.16	
MW-19	11/16/09	11.39	2.85	--	8.54	
MW-19	03/08/10	11.39	2.25	--	9.14	
MW-19	06/07/10	11.39	2.67	--	8.72	
MW-19	09/09/10	11.39	3.97	--	7.42	
MW-19	11/15/10	11.39	2.75	--	8.64	
MW-19	03/01/11	11.39	1.82	--	9.57	
MW-19	05/23/11	11.39	2.02	--	9.37	
MW-19	08/29/11	11.39	3.77	--	7.62	
MW-19	12/01/11	11.39	3.03	--	8.36	
MW-19	03/01/12	11.39	2.82	--	8.57	
MW-19	05/30/12	11.39	2.79	--	8.60	
MW-19	08/25/12	11.39	3.62	--	7.77	
MW-19	11/07/12	11.39	2.77	--	8.62	
MW-19	02/27/13	11.39	2.18	--	9.21	
MW-19	04/08/13	11.39	1.82	--	9.57	
MW-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	

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	03/26/07	11.72	2.49	--	9.23	
MW-20	06/18/07	11.72	4.44	--	7.28	
MW-20	09/24/07	11.72	4.61	--	7.11	
MW-20	12/10/07	11.72	2.56	--	9.16	
MW-20	03/03/08	11.72	2.97	--	8.75	
MW-20	06/02/08	11.72	3.90	--	7.82	
MW-20	09/04/08	11.72	4.14	--	7.58	
MW-20	12/04/08	11.72	3.89	--	7.83	
MW-20	03/04/09	11.72	4.99	--	6.73	
MW-20	06/01/09	11.72	3.46	--	8.26	
MW-20	09/21/09	11.72	4.42	--	7.30	
MW-20	11/16/09	11.72	2.91	--	8.81	
MW-20	03/08/10	11.72	2.40	--	9.32	
MW-20	06/07/10	11.72	2.76	--	8.96	
MW-20	09/09/10	11.72	4.22	--	7.50	
MW-20	11/15/10	11.72	3.03	--	8.69	
MW-20	03/01/11	11.72	2.18	--	9.54	
MW-20	05/23/11	11.72	2.11	--	9.61	
MW-20	08/29/11	11.72	4.05	--	7.67	
MW-20	12/01/11	11.72	3.08	--	8.64	
MW-20	03/01/12	11.72	3.09	--	8.63	
MW-20	05/30/12	11.72	2.89	--	8.83	
MW-20	08/25/12	11.72	3.88	--	7.84	
MW-20	11/07/12	11.72	2.98	--	8.74	
MW-20	02/27/13	11.72	2.60	--	9.12	
MW-20	04/08/13	11.72	2.23	--	9.49	
MW-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	

Table 1

ARCADIS

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
MW-21	03/08/10	9.41	2.23	--	7.18	
MW-21	06/07/10	9.41	--	--	--	Not Measured
MW-21	09/09/10	9.41	3.66	--	5.75	
MW-21	11/15/10	9.41	2.79	--	6.62	
MW-21	03/01/11	9.41	2.21	--	7.20	
MW-21	05/23/11	9.41	2.47	--	6.94	
MW-21	08/29/11	9.41	3.53	--	5.88	
MW-21	12/01/11	9.41	2.77	Sheen	6.64	
MW-21	03/01/12	9.41	2.27	Sheen	7.14	
MW-21	05/30/12	9.41	2.86	--	6.55	
MW-21	08/25/12	9.41	3.20	--	6.21	
MW-21	11/07/12	9.41	2.53	--	6.88	
MW-21	02/27/13	9.41	2.61	--	6.80	
MW-21	04/08/13	9.41	1.99	--	7.42	
MW-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	

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-22	11/07/12	16.32	8.24	--	8.08	
MW-22	02/27/13	16.32	7.42	--	8.90	
MW-22	04/08/13	16.32	7.28	--	9.04	
MW-23	11/18/03	14.15	7.66	Sheen	6.49	
MW-23	02/24/04	14.15	7.18	Sheen	6.97	
MW-23	05/10/04	14.15	7.89	<0.01	6.26*	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-23	04/08/13	14.15	7.15	--	7.00	
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-24	04/08/13	14.34	7.27	--	7.07	
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			**Abandoned**			
SF-01	12/18/00	--	--	--	--	Abandoned
SF-01			**Abandoned**			
SF-01R	02/11/02	10.68	7.11	--	3.57	
SF-01R	05/20/02	10.68	9.07	Sheen	1.61	
SF-01R	08/27/02	10.68	8.44	0.01	2.25*	

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-01R	11/04/02	10.68	9.63	--	1.05	
SF-01R	02/18/03	10.68	7.72	--	2.96	
SF-01R	06/09/03	10.68	8.30	--	2.38	
SF-01R	09/15/03	14.74	8.60	--	6.14	
SF-01R	11/18/03	14.74	7.45	--	7.29	
SF-01R	02/24/04	14.74	7.76	--	6.98	
SF-01R	05/10/04	14.74	8.11	--	6.63	
SF-01R	08/24/04	14.74	8.49	--	6.25	
SF-01R	12/13/04	14.74	--	--	--	Inaccessible, under construction trailer
SF-01R	03/08/05	14.74	8.16	--	6.58	
SF-01R	06/06/05	14.74	8.16	--	6.58	
SF-01R	09/19/05	14.74	--	--	--	Inaccessible, under construction trailer
SF-01R	12/12/05	14.74	8.39	--	6.35	
SF-01R	03/13/06	14.74	7.70	--	7.04	
SF-01R	06/05/06	14.74	8.09	--	6.65	
SF-01R	09/11/06	14.74	8.60	--	6.14	
SF-01R	12/11/06	14.74	7.73	--	7.01	
SH-02	02/11/02	--	--	--	--	Destroyed during construction activities
SH-02			**Destroyed during construction activities**			
SH-02R	02/11/02	9.35	5.45	--	3.90	
SH-02R	05/20/02	9.35	6.49	--	2.86	
SH-02R	08/27/02	9.35	6.27	--	3.08	
SH-02R	11/04/02	9.35	6.62	--	2.73	
SH-02R	02/18/03	9.35	4.85	--	4.50	
SH-02R	06/09/03	9.35	4.75	--	4.60	
SH-02R	09/15/03	13.40	6.50	--	6.90	
SH-02R	11/18/03	13.40	6.03	--	7.37	
SH-02R	02/24/04	13.40	4.62	--	8.78	
SH-02R	05/10/04	13.40	5.88	--	7.52	
SH-02R	08/24/04	13.40	6.21	--	7.19	
SH-02R	12/13/04	13.40	5.14	--	8.26	
SH-02R	03/08/05	13.40	5.90	--	7.50	
SH-02R	06/06/05	13.40	5.72	--	7.68	
SH-02R	09/19/05	13.40	6.56	--	6.84	
SH-02R	12/12/05	13.40	5.94	--	7.46	
SH-02R	03/13/06	13.40	4.80	--	8.60	
SH-02R	06/05/06	13.40	5.41	--	7.99	
SH-02R	09/11/06	13.40	6.54	--	6.86	
SH-02R	12/11/06	13.40	4.82	--	8.58	
SH-02R	03/26/07	13.40	4.98	--	8.42	
SH-02R	06/18/07	13.40	5.94	--	7.46	
SH-02R	09/25/07	13.40	6.54	--	6.86	
SH-02R	12/10/07	13.40	5.13	--	8.27	
SH-02R	03/03/08	13.40	5.45	--	7.95	
SH-02R	06/02/08	13.40	6.10	--	7.30	
SH-02R	09/04/08	13.40	6.19	--	7.21	
SH-02R	12/04/08	13.40	6.08	--	7.32	
SH-02R	03/04/09	13.40	5.63	--	7.77	
SH-02R	06/01/09	13.40	5.79	--	7.61	
SH-02R	09/21/09	13.40	6.49	--	6.91	
SH-02R	11/16/09	13.40	5.37	--	8.03	
SH-02R	03/08/10	13.40	4.88	--	8.52	
SH-02R	06/07/10	13.40	5.25	--	8.15	
SH-02R	09/09/10	13.40	6.31	--	7.09	
SH-02R	11/15/10	13.40	5.42	--	7.98	
SH-02R	03/01/11	13.40	4.71	--	8.69	
SH-02R	05/23/11	13.40	4.78	--	8.62	
SH-02R	08/29/11	13.40	6.16	--	7.24	

Table 1

ARCADIS

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
SH-02R	12/01/11	13.40	5.50	--	7.90	
SH-02R	03/01/12	13.40	5.34	--	8.06	
SH-02R	05/30/12	13.40	5.32	--	8.08	
SH-02R	08/25/12	13.40	6.03	--	7.37	
SH-02R	11/07/12	13.40	5.37	--	8.03	
SH-02R	02/27/13	13.40	5.01	--	8.39	
SH-02R	04/08/13	13.40	4.77	--	8.63	
SH-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	
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	

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	03/08/10	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	
SH-05R	04/08/13	13.89	5.59	--	8.30	
MW-07	01/13/97	7.66	--	--	--	Destroyed during construction activities
MW-07	**Destroyed during construction activities**					
MW-07R	02/11/02	9.93	4.95	--	4.98	
MW-07R	05/20/02	9.93	7.29	--	2.64	
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	
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	

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	05/30/12	13.92	6.12	--	7.80	
MW-07R	08/25/12	13.92	--	--	--	Not Measured
MW-07R	11/07/12	13.92	6.02	--	7.90	
MW-07R	02/27/13	13.92	5.84	--	8.08	
MW-07R	04/08/13	13.92	5.49	--	8.43	

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 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	02/14/02	<0.25	**2.3**	<0.5	**0.00055**	**0.0017**	<0.0005	<0.0005	--	--	
A-5	05/22/02	<0.25	**2.0**	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-5	08/29/02	<0.25	**1.2**	<0.5	**0.0017**	**0.00062**	<0.0005	**0.00099**	--	--	
A-5	11/06/02	<0.25	**1.2**	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-5	02/20/03	<0.25	<0.25	<0.5	**0.00086**	**0.0019**	<0.0005	**0.0010**	--	--	
A-5	06/10/03	**0.26**	**0.40**	<0.25	<0.0005	**0.00067**	<0.0005	**0.00070**	--	--	
A-5	09/17/03	<0.25	**0.60**	<0.50	**0.0042**	<0.0005	<0.0005	<0.0005	--	--	
A-5	11/20/03	<0.25	**0.53**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-5	02/26/04	<0.25	**3.3**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-5	05/12/04	**0.27**	**0.43**	<0.50	<0.0005	<0.0005	<0.0005	**0.00057**	--	--	
A-5	08/25/04	<0.25	**1.1**	<0.50	**0.0029**	<0.0005	<0.0005	<0.0005	--	--	
A-5	12/14/04	<0.25	**0.43**	<0.50	**0.021**	<0.001	<0.001	<0.001	--	--	
A-5	03/10/05	**0.43**	**5.2**	<0.50	**0.12**	**0.0025**	<0.001	**0.0012**	--	--	
A-5	06/07/05	**0.54**	**2.4**	**1.7**	**0.12**	**0.0028**	<0.001	**0.0013**	--	--	
A-5	09/20/05	**0.37**	**1.2**	<0.50	**0.037**	**0.0017**	<0.001	**0.0011**	--	--	
A-5	12/13/05	**0.44**	**0.31**	<0.50	**0.049**	**0.0021**	<0.0005	**0.0013**	--	--	
A-5	03/15/06	**0.36**	**0.45**	<0.50	**0.052**	**0.0017**	<0.001	**0.0017**	--	--	
A-5	06/08/06	**0.91**	**0.55**	<0.50	**0.099**	**0.0036**	**0.00076**	**0.0034**	--	--	
A-5	09/12/06	**0.46**	**0.43**	<0.50	**0.031**	**0.0016**	<0.001	**0.0014**	--	--	
A-5	12/12/06	**0.70**	**0.53**	<0.50	**0.079**	**0.0028**	<0.001	**0.0025**	--	--	
A-5	03/27/07	**1.4**	--	--	**0.19**	**0.0045**	**0.0014**	**0.0050**	--	--	
A-5	06/19/07	**1.1**	**1.9**	<0.50	**0.090**	**0.0027**	**0.00072**	**0.0039**	--	--	
A-5	09/24/07	**0.72**	--	--	**0.039**	**0.0019**	<0.0005	**0.0018**	--	--	
A-5	12/11/07	**0.31**	--	--	**0.017**	**0.00096**	<0.0005	**0.00088**	--	--	
A-5	03/04/08	**1.4**	--	--	**0.12**	**0.0040**	<0.0010	**0.0040**	--	--	
A-5	06/03/08	**0.85**	--	--	**0.048**	<0.0015	<0.0015	**0.0029**	--	--	
A-5	09/08/08	**1.5**	--	--	**0.15**	**0.0032**	**0.0031**	**0.0076**	--	--	
A-5	12/05/08	**0.64**	--	--	**0.089**	<0.0010	<0.0010	**0.0038**	--	--	
A-5	03/04/09	<0.25	--	--	**0.0011**	<0.0010	**0.0020**	**0.0071**	--	--	
A-5	06/03/09	**0.45**	--	--	**0.022**	<0.0010	<0.0010	**0.0027**	--	--	
A-5	09/22/09	**0.75**	--	--	**0.063**	**0.0012**	**0.0041**	**0.021**	--	--	
A-5	11/17/09	**0.43**	--	--	**0.011**	<0.0010	<0.0010	**0.0038**	--	--	
A-5	03/08/10	**0.34**	--	--	**0.0059**	<0.0010	**0.0012**	**0.0051**	--	--	
A-5	06/09/10	<0.25	--	--	**0.0063**	<0.0010	<0.0010	**0.0019**	--	--	
A-5	09/10/10	**0.80**	--	--	**0.031**	**0.00170**	**0.0047**	**0.025**	--	--	
A-5	11/16/10	**0.35**	--	--	**0.0025**	<0.0010	**0.0011**	**0.0086**	--	--	
A-5	03/02/11	**0.34**	--	--	**0.0042**	<0.0010	<0.0010	**0.0019**	--	--	
A-5	05/25/11	**0.39**	--	--	**0.0078**	**0.00057**	<0.0005	**0.0014**	--	--	
A-5	08/30/11	**0.47**	--	--	**0.0027**	**0.00070**	<0.0005	**0.0013**	--	--	
A-5	12/02/11	**0.29**	--	--	**0.0017**	<0.0010	<0.0010	<0.0020	--	--	
A-5	03/02/12	<0.25	--	--	**0.00094**	<0.0005	<0.0005	<0.0005	--	--	
A-5	06/01/12	<0.25	--	--	**0.012**	<0.0010	<0.0010	**0.0010**	--	--	
A-5 (DUP)	06/01/12	<0.25	--	--	**0.011**	<0.0010	<0.0010	**0.0010**	--	--	Duplicate of A-5
A-5	08/25/12	**0.57**	--	--	**0.020**	**0.0012**	<0.0010 o	**0.0014**	--	--	
A-5	11/08/12	**0.27**	--	--	**0.028**	<0.001	<0.001	0.0011	--	--	
A-5	02/28/13	**0.66**	--	--	**0.062**	0.0017	<0.0005	0.0013	--	--	
A-5	04/10/13	**0.46**	--	--	**0.014**	<0.001	<0.001	<0.001	--	--	
A-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	--	--	

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-8	02/20/03	<0.25	<0.25	<0.5	<0.0005	**0.00083**	<0.0005	<0.0005	--	--	
A-8	06/10/03	<0.25	<0.25	<0.25	<0.0005	**0.00056**	<0.0005	<0.0005	--	--	
A-8	09/17/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-8	11/20/03	<0.25	**1.4**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-8	02/26/04	**0.35**	**1.0**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-8	05/12/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-8	08/25/04	<0.25	**4.9**	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
A-8	12/14/04	<0.25	**1.7**	<0.50	**0.00056**	**0.00052**	<0.0005	**0.00094**	--	--	
A-8	03/10/05	<0.25	**2.1**	<0.50	<0.0005	<0.0005	<0.0005	**0.00055**	--	--	
A-8	06/07/05	<0.25	**1.2**	**1.5**	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-8	09/20/05	<0.25	**3.5**	**0.83**	**0.0012**	<0.001	<0.001	**0.0012**	--	--	
A-8	12/13/05	<0.25	**0.54**	<0.50	<0.0005	<0.0005	<0.0005	**0.0011**	--	--	
A-8	03/15/06	<0.25	**0.55**	<0.50	<0.0010	<0.0010	<0.0010	**0.0010**	--	--	
A-8	06/08/06	<0.25	**0.47**	<0.50	<0.0010	<0.0010	<0.0010	**0.0010**	--	--	
A-8	09/12/06	<0.25	**0.76**	<0.50	<0.0010	<0.0010	<0.0010	**0.0011**	--	--	
A-8	12/12/06	**0.27**	**0.87**	<0.50	<0.0010	**0.0011**	<0.0010	**0.0015**	--	--	
A-8	06/19/07	<0.25	**2.4**	**0.58**	<0.0010	<0.0010	<0.0010	**0.0010**	--	--	
A-8	06/03/08	<0.30	**0.46**	<0.50	<0.0015	<0.0015	<0.0015	<0.0015	--	--	
A-8	06/03/09	<0.25	**1.6**	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
A-8	06/09/10	<0.25	**0.45**	<0.50	**0.0054**	<0.0010	<0.0010	<0.0010	--	--	
A-8	05/25/11	<0.25	**1.2**	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
A-8	06/01/12	<0.50	**0.90**	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
A-8	04/10/13	**0.25**	<0.25	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
A-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	--	--	
A-10	03/15/06	<0.25	**1.7**	<0.50	<0.0005	<0.0005	<0.0005	**0.00050**	--	--	
A-10	06/08/06	<0.25	**0.66**	<0.50	<0.0005	<0.0005	<0.0005	**0.00050**	--	--	
A-10	09/12/06	<0.25	**0.65**	<0.50	<0.0005	<0.0005	<0.0005	**0.00050**	--	--	
A-10	12/12/06	<0.25	**0.98**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/19/07	<0.25	**1.2**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/03/09	<0.25	**2.4**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/09/10	<0.25	**0.56**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	05/25/11	<0.25	**0.80**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/01/12	<0.25	**0.62**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	04/10/13	<0.25	**0.36**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-12	12/12/06	<0.25	**0.98**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-12	06/03/08	<0.25	**0.63**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	

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-12	05/25/11	<0.025	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-14R	02/14/02	<0.25	<0.25	<0.5	**0.00061**	**0.0021**	<0.0005	<0.0005	**0.005**	<0.005	
A-14R	05/22/02	<0.25	<0.5	<0.5	**0.00053**	**0.0021**	<0.0005	**0.00054**	**0.02**	<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	**0.020**	<0.005	
A-14R	09/17/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.025**	<0.005	
A-14R	11/20/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.032**	<0.005	
A-14R	02/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.018**	<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	**0.0072**	<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	--r	
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-14R	04/10/13	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-18	05/25/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-19	05/25/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-20	05/25/11	**2.5**	--	--	<0.0010	<0.0010	**0.037**	**0.013**	--	--	
A-21	02/14/02	<0.25	<0.25	<0.5	<0.0005	**0.0010**	<0.0005	<0.0005	<0.005	<0.005	
A-21	05/22/02	<0.25	<0.5	<0.5	**0.00061**	**0.0017**	<0.0005	**0.00057**	<0.005	<0.005	
A-21	08/29/02	<0.25	**0.76**	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
A-21	11/06/02	<0.25	**0.37**	<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	**0.0013**	**0.0018**	<0.0005	**0.00061**	<0.005	<0.005	
A-21	06/10/03	**0.25**	<0.25	<0.25	**0.0082**	**0.00058**	<0.0005	<0.0005	**0.062**	<0.0050	
A-21	09/16/03	<0.25	<0.25	<0.50	**0.0034**	<0.0005	<0.0005	<0.0005	**0.0085**	<0.005	
A-21	11/19/03	**0.47**	<0.25	<0.50	**0.061**	**0.0019**	<0.0005	**0.0029**	**0.0067**	<0.005	
A-21	02/25/04	**0.63**	<0.50	<0.50	**0.013**	**0.00066**	**0.045**	**0.0016**	<0.0050	<0.0050	
A-21	05/12/04	**0.50**	<0.25	<0.50	**0.0019**	<0.0005	**0.0042**	**0.00072**	<0.0050	<0.0050	
A-21	08/25/04	**0.26**	<0.25	<0.50	**0.0015**	<0.0005	<0.0005	**0.0015**	<0.0050	<0.0050	
A-21	12/14/04	**0.99**	<0.25	<0.50	**0.061**	**0.0025**	**0.022**	**0.0083**	<0.0050	<0.0050	
A-21	03/10/05	**1.5**	**0.26**	<0.50	**0.024**	**0.0021**	**0.0025**	**0.011**	**0.02**	<0.0050	
A-21	06/07/05	**1.2**	**0.35**	<0.50	**0.0076**	**0.00084**	**0.00077**	**0.0043**	<0.0050	<0.0050	
A-21	09/20/05	**1.3**	<0.25	<0.50	**0.011**	**0.0012**	**0.00066**	**0.0048**	<0.0050	<0.0050	
A-21	12/13/05	**1.6**	<0.25	<0.50	**0.017**	**0.00160**	**0.0015**	**0.0052**	<0.0050	<0.0050	
A-21	03/15/06	**0.97**	<0.25	<0.50	**0.0098**	**0.00097**	**0.0023**	**0.0033**	<0.0050	<0.0050	
A-21	06/08/06	**0.82**	<0.25	<0.50	**0.0023**	**0.00059**	<0.0005	**0.0019**	<0.0050	<0.0050	
A-21	09/12/06	**0.85**	<0.25	<0.50	**0.0019**	<0.0005	<0.0005	**0.0016**	<0.0050	<0.0050	
A-21	12/12/06	**0.85**	<0.25	<0.50	**0.0071**	<0.0005	**0.0021**	**0.0014**	<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
A-21	03/27/07	**0.28**	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	06/19/07	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-21	09/25/07	<0.25	--	--	**0.0040**	<0.0005	<0.0005	<0.0005	--	--	
A-21	12/11/07	**0.51**	--	--	**0.0062**	<0.0005	**0.026**	**0.0020**	--	--	
A-21	03/04/08	<0.25	--	--	<0.0005	<0.0005	**0.0051**	<0.0005	--	--	
A-21	06/04/08	<0.25	--	--	<0.0005	<0.0005	**0.00075**	<0.0005	<0.0050	--r	
A-21	09/08/08	**0.41**	--	--	<0.0005	**0.00074**	**0.0018**	**0.00053**	--	--	
A-21	12/04/08	**0.96**	--	--	<0.0010	<0.0010	**0.150**	<0.0010	--	--	
A-21	03/04/09	**0.48**	--	--	**0.0075**	<0.0005	**0.0068**	**0.021**	--	--	
A-21	06/02/09	**0.46**	--	--	**0.0027**	<0.00050	**0.0023**	**0.0059**	**0.0087**	--	
A-21	09/22/09	**0.27**	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	11/17/09	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	03/08/10	<0.25	--	--	**0.0026**	<0.0005	**0.0019**	**0.0046**	--	--	
A-21	06/08/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-21	09/10/10	<0.25	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
A-21	11/16/10	**0.82**	--	--	<0.0010	<0.0010	**0.056**	**0.011**	--	--	
A-21	03/02/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	05/24/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-21	08/30/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	12/02/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0010	--	--	
A-21	03/02/12	**1.7**	--	--	<0.0010	<0.0010	**0.16**	**0.026**	--	--	
A-21	05/30/12	**1.5**	--	--	<0.0010	<0.0010	**0.027**	<0.0010	<0.0050	--	
A-21	08/25/12	**1.6**	--	--	<0.0010 o	<0.0010 o	**0.024**	<0.0010 o	--	--	
A-21	11/08/12	**0.53**	--	--	<0.0005	<0.0005	**0.0011**	**0.0015**	--	--	
A-21	02/28/13	**0.44**	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	04/10/13	**0.58**	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-23R	02/14/02	**0.26**	**2.1**	<0.5	**0.060**	**0.0010**	**0.0099**	**0.0072**	**0.72**	**0.01**	
A-23R	05/20/02	**0.74**	**6.9**	<0.5	**0.15**	<0.001	**0.088**	**0.0067**	**0.095**	**0.01**	
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	--	--	

Table 2

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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-23R	06/05/08	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--r	
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-23R	04/08/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-25	06/16/11	**4.1**	--	--	**0.27**	**0.038**	**0.28**	**0.19**	--	--	
A-26R	05/25/11	**22**	--	--	**4.0**	**0.095**	**1.6**	**0.75**	--	--	
A-27	02/14/02	**2.9**	**11**	<0.5	**0.13**	**0.014**	**0.096**	**0.25**	--	--	
A-27	05/22/02	**3.3**	**8.2**	<0.5	**0.20**	**0.016**	**0.14**	**0.38**	--	--	
A-27	08/29/02	**3.8**	**8.1**	<0.5	**0.24**	**0.016**	**0.14**	**0.29**	--	--	
A-27	11/06/02	**3.2**	**8.0**	<0.5	**0.16**	**0.016**	**0.065**	**0.14**	--	--	
A-27	02/19/03	**3.1**	**6.8**	<0.5	**0.17**	**0.017**	**0.052**	**0.13**	--	--	
A-27	06/10/03	**3.7**	**4.5**	<0.25	**0.14**	**0.013**	**0.11**	**0.23**	--	--	
A-27	09/16/03	**4.5**	**5.6**	<0.50	**0.27**	**0.020**	**0.18**	**0.38**	--	--	
A-27	11/19/03	**5.9**	**5.3**	<0.50	**0.25**	**0.023**	**0.13**	**0.33**	--	--	
A-27	02/25/04	**4.4**	**16**	<0.50	**0.15**	**0.016**	**0.18**	**0.30**	--	--	
A-27	05/11/04	**4.6**	**5.2**	<0.50	**0.16**	**0.017**	**0.23**	**0.38**	--	--	
A-27	08/25/04	**4.7**	**2.5**	<0.50	**0.25**	**0.018**	**0.17**	**0.24**	--	<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**	--	--r	
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**	--	--	

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	09/22/09	2.9	--	--	0.054	0.0064	0.099	0.037	--	--	
A-27	11/16/09	3.0	--	--	0.035	0.0051	0.0921	0.035	--	--	
A-27	03/09/10	2.4	--	--	0.024	0.0043	0.089	0.036	--	--	
A-27	06/08/10	2.5	--	--	0.021	0.0041	0.088	0.031	--	--	
A-27	09/09/10	3.4	--	--	0.035	0.0054	0.12	0.034	--	--	
A-27	11/16/10	2.1	--	--	0.014	0.0034	0.070	0.022	--	--	
A-27	03/02/11	2.3	--	--	0.014	0.0024	0.051	0.016	--	--	
A-27	05/24/11	1.7	--	--	0.0092	0.0017	0.023	0.0096	--	--	
A-27	08/30/11	2.1	--	--	0.026	0.0021	0.022	0.011	--	--	
A-27	12/02/11	2.2	--	--	0.016	0.0026	0.030	0.0094	--	--	
A-27	03/01/12	1.4	--	--	0.012	0.0018	0.035	0.0077	--	--	
A-27	05/30/12	1.6	--	--	0.015	0.0016	0.038	0.0066	--	--	
A-27	08/25/12	1.5	--	--	0.029	0.0018	0.0027	0.0048	--	--	
A-27	11/08/12	1.2	--	--	0.025	0.0022	0.0093	0.0068	--	--	
A-27	02/28/13	1.6	--	--	0.038	0.0019	0.057	0.0078	--	--	
A-27	04/10/13	1.3	--	--	0.035	0.0018	0.041	0.0053	--	--	
A-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	--r	
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	--	--	

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-28R	03/02/11	**2.8**	--	--	**0.15**	**0.0029**	**0.083**	**0.016**	--	--	
A-28R	05/24/11	**3.5**	--	--	**0.21**	**0.0029**	**0.091**	**0.015**	<0.0050	--	
A-28R	08/30/11	**3.7**	--	--	**0.14**	**0.0026**	**0.061**	**0.011**	--	--	
A-28R	12/02/11	**3.6**	--	--	**0.074**	**0.0022**	**0.056**	**0.0092**	--	--	
A-28R	03/02/12	**2.6**	--	--	**0.086**	**0.0022**	**0.075**	**0.012**	--	--	
A-28R	05/30/12	**2.7**	--	--	**0.065**	**0.0017**	**0.050**	**0.0085**	<0.0050	--	
A-28R	08/25/12	**1.8**	--	--	**0.030**	**0.00089**	**0.010**	**0.0031**	--	--	
A-28R	11/08/12	**0.81**	--	--	**0.015**	<0.0005	**0.0066**	**0.0013**	--	--	
A-28R	02/28/13	**2.6**	--	--	**0.062**	<0.0025 V	**0.044**	**0.0059**	--	--	
A-28R	04/10/13	**3.2**	--	--	**0.035**	**0.0013**	**0.030**	**0.0042**	<0.0050	--	
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	--r	
MW-1	06/01/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	06/08/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	05/23/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	06/01/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	04/09/13	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-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	

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-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	
MW-2	12/13/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.024**	<0.0050	
MW-2	03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-2	06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.0063**	<0.0050	
MW-2	09/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-2	12/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-2	06/19/07	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	06/04/08	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--r	
MW-2	06/03/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	06/08/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.063**	--	
MW-2	05/23/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	05/31/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	04/09/13	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	02/13/02	<0.25	**1.8**	<0.5	**0.011**	**0.0015**	**0.0045**	**0.011**	<0.005	<0.005	
MW-3	05/20/02	**0.38**	**1.9**	<0.5	**0.052**	**0.0028**	**0.025**	**0.020**	**0.01**	<0.005	
MW-3	08/28/02	**0.62**	**2.5**	<0.5	**0.11**	**0.0071**	**0.021**	**0.030**	<0.005	<0.005	
MW-3	11/06/02	**0.63**	**1.1**	<0.5	**0.14**	**0.0053**	**0.021**	**0.015**	**0.006**	<0.005	
MW-3	02/19/03	<0.25	**1.8**	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	**0.014**	<0.005	
MW-3	06/11/03	<0.25	**1.3**	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	**0.019**	<0.005	
MW-3	09/17/03	<0.25	**1.4**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.042**	<0.0050	
MW-3	11/20/03	<0.25	**2.4**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.0063**	<0.0050	
MW-3	02/25/04	<0.25	**1.2**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.025**	<0.0050	
MW-3	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-3	08/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.0051**	<0.0050	
MW-3	12/15/04	<0.25	**0.33**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.018**	<0.0050	
MW-3	03/09/05	<0.25	<0.25	<0.50	**0.0010**	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-3	06/08/05	<0.25	<0.25	<0.50	**0.0011**	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-3	09/21/05	<0.25	<0.25	<0.50	**0.00094**	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-3	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-3	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-3	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-3	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-3	12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-3	06/20/07	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	06/05/08	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--r	
MW-3	06/01/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	06/09/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	**0.0011**	**0.0053**	<0.0050	--	
MW-3	05/23/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	05/31/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	04/09/13	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-4	02/14/02	**0.78**	**280**	<50	**0.30**	**0.0072**	**0.0023**	**0.0082**	--	--	
MW-4	05/21/02	**1.5**	**8.6**	<0.5	**0.43**	**0.023**	**0.034**	**0.13**	--	--	
MW-4	08/28/02	**3.3**	**30**	**2.6**	**1.1**	**0.016**	**0.016**	**0.024**	--	--	
MW-4	11/05/02	--	--	--	--	--	--	--	--	--	Not Sampled
MW-4	02/19/03	**3.1**	**31**	<0.5	**0.056**	**0.0017**	**0.014**	**0.020**	--	--	
MW-4	06/10/03	**0.39**	**12**	<0.25	**0.031**	**0.0012**	**0.0091**	**0.0096**	--	--	
MW-4	09/16/03	--	--	--	--	--	--	--	--	--	Not Sampled
MW-4	11/19/03	**0.25**	**19**	<0.50	**0.033**	<0.001	**0.0042**	**0.0069**	--	--	
MW-4	02/25/04	**0.36**	**15**	<0.50	**0.035**	**0.0014**	**0.0056**	**0.0094**	--	--	
MW-4	05/12/04	**0.33**	**7.4**	<0.50	**0.012**	<0.001	**0.0048**	**0.0058**	--	--	

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-4	08/26/04	<0.50	**5.1**	<0.50	**0.014**	<0.0025	**0.0039**	**0.0069**	--	--	
MW-4	12/15/04	--	--	--	--	--	--	--	--	--	Not Sampled
MW-4	03/09/05	<2.0	**11**	<0.50	<0.01	<0.01	<0.01	**0.013**	--	--	
MW-4	06/08/05	<1.0	**16**	**1.1**	<0.005	<0.005	<0.005	<0.005	<0.0050	--	
MW-4	09/21/05	<2.0	**19**	**2.1**	<0.010	<0.010	<0.010	<0.010	--	--	
MW-4	12/14/05	<0.50	**6.2**	**0.81**	**0.012**	<0.0025	**0.0032**	**0.0084**	--	--	
MW-4	03/14/06	<0.40	**3.9**	**0.69**	**0.0063**	<0.0020	**0.0020**	**0.0062**	--	--	
MW-4	06/07/06	<0.50	**4.5**	<0.50	**0.0037**	<0.0025	<0.0025	<0.0025	--	--	
MW-4	09/13/06	<0.50	**2.7**	<0.50	**0.0034**	<0.0025	<0.0025	**0.0029**	--	--	
MW-4	12/13/06	<0.25	**3.7**	**0.62**	**0.0012**	<0.0005	<0.0005	**0.0023**	--	--	
MW-4	06/20/07	<0.25	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-4	06/05/08	<0.25	**1.2**	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--r	
MW-4	06/01/09	<0.25	**2.1**	**0.61**	<0.0005	<0.0005	<0.0005	**0.00080**	--	--	
MW-4	06/08/10	<0.25	**0.86**	<0.50	<0.0005	**0.00057**	<0.0005	**0.0018**	--	--	
MW-4	05/23/11	<0.25	**1.6**	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-4	06/01/12	<0.50	**2.0**	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-4	04/09/13	<0.50	**0.92**	<0.50	<0.0025 V	<0.0025 V	<0.0025 V	<0.0025 V	--	--	
MW-5	02/13/02	<0.25	<0.25	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
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	--	--	--	--	--	--	--	--	--	Not Sampled
MW-5	06/04/08	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.0094**	--r	
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	--	
MW-5	05/24/11	<0.25	<0.25	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-5	05/31/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-5	04/09/13	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.0073**	--	
MW-6	02/13/02	**0.97**	**1.1**	<0.5	**0.014**	**0.00070**	<0.0005	**0.00065**	<0.005	<0.005	
MW-6	05/22/02	**1.1**	**2.5**	<0.5	**0.035**	**0.0012**	**0.0024**	**0.00072**	<0.005	<0.005	
MW-6	08/29/02	**0.58**	**6.4**	<0.5	**0.0014**	<0.001	<0.001	<0.001	<0.005	<0.005	
MW-6	11/05/02	**0.59**	**7.3**	<0.5	**0.064**	<0.001	<0.001	**0.0016**	**0.02**	<0.005	
MW-6	02/19/03	**0.54**	**1.7**	<0.5	**0.0062**	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-6	06/10/03	**0.70**	**1.9**	<0.25	**0.025**	**0.0011**	**0.00052**	**0.00051**	<0.005	<0.005	
MW-6	09/16/03	**0.68**	<0.50	<0.50	<0.0005	<0.0005	**0.00053**	<0.0005	**0.019**	<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-6	11/19/03	**0.44**	**1.6**	<0.50	**0.0095**	**0.00067**	<0.0005	**0.00051**	<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	**1.0**	**0.67**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-6	08/25/04	<0.25	**0.50**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-6	12/14/04	**0.82**	**0.81**	<0.50	**0.0080**	<0.0005	<0.0005	<0.0005	**0.011**	<0.0050	
MW-6	03/10/05	**1.0**	**0.42**	<0.50	**0.0011**	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-6	06/07/05	**0.92**	<0.25	<0.50	**0.0014**	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-6	09/20/05	**0.91**	<0.25	<0.50	<0.0005	<0.0005	**0.00062**	<0.0005	<0.0050	<0.0050	
MW-6	12/13/05	**1.2**	**0.38**	<0.50	**0.0032**	<0.0005	**0.00050**	<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	**0.71**	<0.25	<0.50	<0.0005	**0.00055**	<0.0005	<0.0005	<0.0050	<0.0050	
MW-6	12/12/06	<0.25	<0.25	<0.50	<0.0005	**0.00055**	<0.0005	<0.0005	<0.0050	<0.0050	
MW-6	03/27/07	**0.81**	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	06/19/07	**0.73**	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	09/24/07	**0.55**	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-6	12/11/07	**0.54**	--	--	**0.0014**	<0.0005	<0.0005	<0.0005	--	--	
MW-6	03/04/08	**0.25**	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	06/04/08	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--r	
MW-6	09/08/08	**0.51**	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	12/04/08	**0.43**	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	03/04/09	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	06/02/09	**0.25**	--	--	<0.0005	<0.0005	<0.0005	**0.0025**	<0.0050	--	
MW-6	09/21/09	**0.33**	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	11/17/09	**0.31**	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	03/09/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	**0.00095**	--	--	
MW-6	06/08/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	09/09/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	11/15/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	03/02/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	05/24/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	08/30/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	12/01/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0010	--	--	
MW-6	03/01/12	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	05/31/12	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	08/25/12	**0.27**	--	--	<0.0005	<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-6	04/09/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
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**	

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	03/09/05	**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**	--	--	
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	**0.007**	**0.007**	**0.190**	--	--	
MW-7	04/09/13	**8.1**	--	--	<0.005 V	**0.070**	**0.250**	**1.400**	**0.0097**	<0.0050	
MW-7	04/09/13	**5.7**	--	--	**0.0071**	**0.072**	**0.240**	**1.200**	--	--	Duplicate of MW-7
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	

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-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-8	04/10/13	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.046**	--	
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	
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**	**--r**	
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**	--	--	

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	02/28/13	<0.25	--	--	**0.0012**	<0.0005	<0.0005	<0.0005	--	--	
MW-9	04/10/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-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	
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	**0.27**	<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	**0.0010**	<0.0005	<0.0005	<0.0050	--	
MW-12R	06/05/08	<0.25	**0.78**	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--r	
MW-12R	06/01/09	<0.25	**0.32**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-12R	06/08/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-12R	05/23/11	<0.25	**0.41**	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-12R	06/01/12	<0.25	<0.25	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-12R	04/09/13	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13	06/19/01	<0.05	**1.3**	<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	**3.2**	<0.5	**0.056**	<0.0005	<0.0005	**0.00075**	<0.005	<0.005	
MW-13R	05/21/02	<0.25	**3.5**	<0.5	**0.0025**	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-13R	08/28/02	<0.25	**2.4**	<0.5	<0.0005	**0.0019**	<0.0005	**0.00070**	<0.005	<0.005	
MW-13R	11/05/02	<0.25	**2.0**	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-13R	02/19/03	<0.25	**1.7**	<0.5	**0.00078**	**0.0032**	<0.0005	**0.00083**	<0.005	<0.005	
MW-13R	06/10/03	<0.25	**0.76**	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-13R	09/16/03	<0.25	**1.4**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.0078**	<0.0050	
MW-13R	11/19/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.0066**	--	
MW-13R	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.012**	<0.0050	
MW-13R	05/12/04	<0.25	**0.61**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	08/26/04	<0.25	**0.49**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	12/15/04	<0.25	**0.91**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	03/09/05	<0.25	**0.35**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	06/08/05	<0.25	**0.49**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0050	
MW-13R	09/21/05	<0.25	**0.39**	<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	

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-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	**0.33**	<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	--r	
MW-13R	06/01/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13R	06/08/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13R	05/23/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13R		Abandoned on 5/25/2012									
MW-14	02/13/02	**2.5**	**37**	<5.0	**0.010**	**0.0085**	**0.18**	**0.22**	--	--	
MW-14	05/21/02	**2.9**	**23**	**1.0**	**0.0093**	**0.0057**	**0.18**	**0.15**	--	--	
MW-14	08/29/02	**2.9**	**28**	<0.5	**0.017**	**0.0073**	**0.21**	**0.14**	--	--	
MW-14	11/05/02	**2.0**	**28**	**0.91**	**0.060**	**0.0059**	**0.12**	**0.076**	--	--	
MW-14	02/20/03	**3.4**	**18**	<0.5	**0.056**	**0.0062**	**0.14**	**0.11**	--	--	
MW-14	06/11/03	**3.1**	**28**	<0.5	**0.059**	**0.0098**	**0.23**	**0.13**	--	--	
MW-14	09/16/03	<1.0	**15**	<0.50	**0.13**	<0.005	**0.019**	**0.022**	--	--	
MW-14	11/20/03	<2.0	**29**	**0.70**	**0.12**	<0.01	**0.020**	**0.031**	--	--	
MW-14	02/24/04	**2.4**	**21**	<0.50	**0.061**	**0.014**	**0.25**	**0.20**	--	--	
MW-14	05/11/04	**2.7**	**27**	<0.50	**0.053**	**0.0092**	**0.21**	**0.16**	--	--	
MW-14	08/26/04	**2.3**	**11**	**0.53**	**0.024**	<0.0025	**0.16**	**0.19**	--	--	
MW-14	12/15/04	**1.2**	**9.6**	<0.50	**0.0084**	<0.005	**0.010**	**0.0055**	--	--	
MW-14	03/09/05	**4.2**	**7.7**	<0.50	**0.0053**	**0.0094**	**0.18**	**0.099**	--	--	
MW-14	06/08/05	**3.1**	**8.8**	<0.50	**0.0043**	**0.0069**	**0.17**	**0.11**	--	--	
MW-14	09/21/05	**1.6**	**10**	**1.1**	**0.012**	**0.0048**	**0.077**	**0.068**	--	--	
MW-14	12/14/05	**3.1**	**2.0**	<0.50	**0.0059**	**0.0075**	**0.12**	**0.068**	--	--	
MW-14	03/14/06	**0.79**	**2.1**	<0.50	<0.0025	<0.0025	**0.023**	**0.030**	--	--	
MW-14	06/07/06	**0.84**	**3.0**	<0.50	<0.0025	<0.0025	**0.061**	**0.033**	--	--	
MW-14	09/13/06	**2.4**	**1.8**	<0.50	<0.0025	**0.0060**	**0.10**	**0.056**	--	--	
MW-14	12/13/06	**1.1**	**1.4**	<0.50	<0.0025	<0.0025	**0.044**	**0.029**	--	--	
MW-14	03/27/07	**1.3**	--	--	**0.0057**	<0.0025	**0.049**	**0.024**	--	--	
MW-14	06/20/07	**1.5**	--	--	<0.0025	**0.0039**	**0.087**	**0.046**	--	--	
MW-14	09/24/07	**2.5**	--	--	**0.0024**	**0.0077**	**0.15**	**0.13**	--	--	
MW-14	12/11/07	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-14	03/04/08	**0.43**	--	--	<0.0015	<0.0015	**0.019**	**0.0073**	--	--	
MW-14	06/04/08	<0.30	--	--	<0.0015	<0.0015	<0.015	<0.015	--	--r	
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	--	--	

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-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-14	04/09/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-16	02/13/02	<0.25	<0.25	<0.5	**0.0013**	**0.0037**	<0.0005	**0.0011**	--	--	
MW-16	05/21/02	<0.25	<0.5	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	08/29/02	<0.25	<0.5	<0.5	<0.0005	**0.0022**	<0.0005	**0.00069**	--	--	
MW-16	11/05/02	<0.25	**0.29**	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	02/19/03	<0.25	<0.25	<0.5	<0.0005	**0.0018**	<0.0005	<0.0005	--	--	
MW-16	06/10/03	<0.25	<0.25	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	11/19/03	<0.25	<0.25	<0.50	<0.0005	**0.0013**	<0.0005	**0.00062**	--	--	
MW-16	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	08/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	12/15/04	<0.25	<0.25	<0.50	**0.029**	<0.0005	<0.0005	<0.0005	--	--	
MW-16	03/10/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/07/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	09/20/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	12/13/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	09/12/06	<0.25	<0.25	<0.50	<0.0005	**0.00062**	**0.0012**	<0.0005	--	--	
MW-16	12/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/19/07	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/04/08	**0.39**	**0.43**	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--r	
MW-16	06/03/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/09/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	**0.0012**	--	--	
MW-16	05/23/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	05/31/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	04/09/13	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	02/13/02	**7.6**	**0.77**	<0.5	**1.8**	**0.067**	**0.29**	**0.34**	--	--	
MW-18	05/21/02	**1.2**	**0.30**	<0.5	**0.25**	**0.016**	**0.068**	**0.068**	--	--	
MW-18	08/29/02	**1.6**	<0.5	<0.5	**0.45**	**0.014**	**0.032**	**0.044**	--	--	
MW-18	11/05/02	**1.1**	<0.25	<0.5	<0.3	**0.010**	**0.011**	**0.031**	--	--	
MW-18	02/19/03	<0.25	<0.25	<0.5	**0.0035**	**0.0047**	<0.0005	**0.0016**	--	--	
MW-18	06/10/03	<0.25	<0.25	<0.25	**0.022**	**0.0016**	<0.0005	**0.0040**	--	--	
MW-18	09/16/03	<0.25	<0.50	<0.50	**0.036**	**0.0019**	<0.0005	**0.0075**	--	--	
MW-18	11/19/03	<0.25	<0.25	<0.50	**0.0042**	<0.0005	<0.0005	**0.0015**	--	--	
MW-18	02/25/04	**0.58**	<0.25	<0.50	**0.11**	**0.0048**	**0.00087**	**0.026**	--	--	
MW-18	05/11/04	**1.1**	<0.25	<0.50	**0.25**	**0.0073**	**0.0016**	**0.037**	--	--	
MW-18	08/26/04	<0.25	<0.25	<0.50	**0.0030**	<0.0005	<0.0005	<0.0005	--	--	
MW-18	12/15/04	**0.84**	<0.25	<0.50	**0.14**	**0.0060**	**0.0019**	**0.029**	--	--	
MW-18	03/10/05	**0.84**	<0.25	<0.50	**0.25**	**0.0049**	**0.0020**	**0.021**	--	--	
MW-18	06/07/05	**0.68**	<0.25	<0.50	**0.17**	**0.0039**	**0.0019**	**0.0098**	--	--	
MW-18	09/20/05	**4.0**	<0.25	<0.50	**0.74**	**0.021**	**0.0091**	**0.090**	--	--	
MW-18	12/13/05	**2.3**	<0.25	<0.50	**0.45**	**0.015**	**0.0067**	**0.033**	--	--	
MW-18	03/15/06	**4.9**	<0.25	<0.50	**1.2**	**0.035**	**0.025**	**0.12**	--	--	
MW-18	06/08/06	**1.2**	<0.25	<0.50	**0.15**	**0.011**	**0.011**	**0.034**	--	--	
MW-18	09/12/06	**0.35**	<0.25	<0.50	**0.023**	**0.0021**	**0.0022**	**0.0047**	--	--	
MW-18	12/12/06	**0.28**	<0.25	<0.50	**0.023**	**0.0018**	**0.0019**	**0.0060**	--	--	

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	03/27/07	**0.78**	--	--	**0.022**	**0.0029**	**0.0051**	**0.012**	--	--	
MW-18	06/19/07	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	09/24/07	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	12/11/07	<0.25	--	--	**0.011**	**0.00075**	<0.0005	**0.0032**	--	--	
MW-18	03/04/08	**0.29**	--	--	**0.0090**	**0.0016**	**0.00050**	**0.00088**	--	--	
MW-18	06/04/08	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--r	
MW-18	09/08/08	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	12/04/08	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	03/04/09	<0.25	--	--	**0.00080**	<0.0005	<0.0005	<0.0005	--	--	
MW-18	06/03/09	<0.25	--	--	**0.00061**	<0.0005	<0.0005	<0.0005	--	--	
MW-18	09/22/09	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	11/17/09	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	03/09/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	**0.0011**	--	--	
MW-18	06/08/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	09/10/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	11/16/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	03/02/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	05/23/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	08/30/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	12/02/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0010	--	--	
MW-18	03/02/12	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	05/31/12	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	11/08/12	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	02/28/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	04/09/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-19	02/13/02	**29**	**6.8**	<2.5	**0.057**	**0.73**	**0.58**	**6.5**	--	--	
MW-19	05/21/02	**30**	**7.7**	<0.5	**0.049**	**0.65**	**0.53**	**6.5**	--	--	
MW-19	08/29/02	**13**	**11**	<0.5	**0.14**	**0.29**	**0.20**	**2.1**	--	--	
MW-19	11/05/02	**8.2**	**3.0**	<0.5	**0.21**	**0.37**	**0.16**	**1.7**	--	--	
MW-19	02/20/03	**38**	**19**	<0.5	**0.091**	**1.2**	**0.80**	**8.0**	--	--	
MW-19	06/11/03	**32**	**15**	<1.0	**0.042**	**0.38**	**0.80**	**6.7**	--	--	
MW-19	09/16/03	**4.2**	**12**	<0.50	**0.19**	**0.043**	**0.19**	**1.1**	--	--	
MW-19	11/20/03	**22**	**10**	<0.50	**0.11**	**0.67**	**0.75**	**6.1**	--	--	
MW-19	02/24/04	**19**	**14**	<0.50	<0.015	**0.49**	**0.63**	**4.7**	--	--	
MW-19	05/11/04	**27**	**13**	<0.50	<0.025	**0.22**	**0.87**	**7.2**	--	--	
MW-19	08/26/04	**22**	**0.72**	<0.50	**0.042**	**0.26**	**0.64**	**4.6**	--	--	
MW-19	12/15/04	**15**	**7.6**	<0.50	**0.039**	**0.12**	**0.37**	**2.7**	--	--	
MW-19	03/09/05	**27**	**9.1**	<0.50	**0.073**	**0.18**	**0.56**	**3.4**	--	--	
MW-19	06/08/05	**17**	**6.3**	<0.50	**0.071**	**0.17**	**0.61**	**2.8**	--	--	
MW-19	09/20/05	--	--	--	--	--	--	--	--	--	Not Sampled
MW-19	12/14/05	--	--	--	--	--	--	--	--	--	Not Sampled
MW-19	03/14/06	--	--	--	--	--	--	--	--	--	Not Sampled
MW-19	06/07/06	**14**	**1.4**	<0.50	<0.010	**0.043**	**0.29**	**1.4**	--	--	
MW-19	09/13/06	**11**	**0.50**	<0.50	**0.032**	**0.047**	**0.41**	**1.1**	--	--	
MW-19	12/13/06	**8.0**	**1.4**	<0.50	**0.016**	**0.052**	**0.30**	**1.4**	--	--	
MW-19	03/27/07	**13**	--	--	<0.010	**0.047**	**0.35**	**1.8**	--	--	
MW-19	06/20/07	**12**	--	--	**0.050**	**0.092**	**0.29**	**1.2**	--	--	
MW-19	09/24/07	**10**	--	--	**0.13**	**0.11**	**0.42**	**1.3**	--	--	
MW-19	12/11/07	**12**	--	--	**0.11**	**0.14**	**0.40**	**1.9**	--	--	
MW-19	03/04/08	**17**	--	--	**0.15**	**0.28**	**0.52**	**2.4**	--	--	
MW-19	06/04/08	**11**	--	--	**0.070**	**0.023**	**0.45**	**1.0**	--	--r	

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-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-19	04/09/13	**6.9**	--	--	**0.029**	**0.150**	**0.320**	**0.570**	--	--	
MW-20	02/13/02	<0.25	**0.64**	<0.5	<0.001	<0.001	<0.001	<0.001	--	--	
MW-20	05/20/02	<0.25	**1.3**	<0.5	**0.018**	**0.0012**	**0.0048**	**0.014**	--	--	
MW-20	08/29/02	**0.60**	**1.1**	<0.5	**0.057**	**0.0065**	**0.021**	**0.084**	--	--	
MW-20	11/06/02	<0.25	**0.81**	<0.5	**0.0023**	**0.00053**	<0.0005	<0.0005	--	--	
MW-20	02/19/03	<0.25	<0.25	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/11/03	<0.25	**0.68**	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	09/17/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	11/20/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	**0.00072**	--	--	
MW-20	02/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	08/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	12/15/04	<0.25	**0.30**	<0.50	**0.0013**	<0.0005	<0.0005	<0.0005	--	--	
MW-20	03/09/05	<0.25	<0.25	<0.50	**0.00074**	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/08/05	<0.25	**0.55**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	09/21/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/20/07	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/05/08	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--r	
MW-20	06/01/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/09/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	**0.00054**	**0.0028**	--	--	
MW-20	05/23/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	05/31/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	04/09/13	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	06/10/03	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	06/11/03	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	09/17/03	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	11/20/03	**0.97**	**19**	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	--	

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-21	02/26/04	**2.3**	**35**	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	05/11/04	**1.2**	**29**	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	08/26/04	**4.3**	**33**	<0.50	<0.001	<0.001	**0.0013**	**0.0014**	--	--	
MW-21	12/15/04	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	03/09/05	**2.4**	**140**	<5.0	<0.0015	<0.0015	**0.0016**	<0.0015	--	--	
MW-21	06/08/05	**1.8**	**31**	**0.50**	<0.002	<0.002	**0.0026**	<0.002	--	--	
MW-21	09/21/05	**1.7**	**46**	**3.3**	<0.0010	<0.0010	**0.0013**	<0.0010	--	--	
MW-21	12/14/05	**1.0**	**6.1**	**0.54**	<0.002	<0.002	**0.0027**	<0.002	--	--	
MW-21	03/14/06	<0.25	**33**	**3.1**	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	06/07/06	**0.77**	**18**	**1.2**	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	09/13/06	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	12/13/06	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	03/27/07	<0.50	**9.6**	**0.75**	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	06/20/07	<0.50	**8.5**	**0.66**	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	09/24/07	**0.36**	**4.3**	**0.52**	<0.0015	<0.0015	**0.0018**	<0.0015	--	--	
MW-21	12/11/07	<0.25	**34**	**2.5**	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	03/04/08	<0.50	**12**	**0.92**	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	06/04/08	<0.30	**4.7**	<0.50	<0.0015	<0.0015	<0.015	<0.0015	--	--r	
MW-21	09/08/08	**0.98**	**3.8**	<0.50	<0.0015	**0.0015**	**0.0049**	**0.0028**	--	--	
MW-21	12/05/08	<1.0	**4.8**	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
MW-21	03/04/09	<0.50	**6.4**	**0.89**	<0.0025	<0.0025	<0.0025	**0.0034**	--	--	
MW-21	06/02/09	**0.70**	**2.9**	**0.68**	<0.0010	<0.0010	**0.0016**	<0.0010	--	--	
MW-21	09/22/09	**1.7**	**4.7**	<0.50	<0.0025	<0.0025	**0.0029**	<0.0025	--	--	
MW-21	11/17/09	<0.25	**0.87**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	03/09/10	<0.25	**1.1**	<0.50	**0.0014**	<0.0010	<0.0010	<0.0005	--	--	
MW-21	09/10/10	**0.60**	**3.7**	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	11/15/10	<0.25	**0.49**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	03/01/11	<0.25	**1.2**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	05/23/11	<0.25	**1.2**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	08/29/11	**0.35**	**3.7**	**0.98**	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	12/01/11	<0.25	**1.7**	--	<0.0010	<0.0010	<0.0010	<0.0020	--	--	
MW-21	03/01/12	<0.25	**0.51**	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	05/31/12	<0.25	**6.1**	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	08/25/12	**0.56**	**1.8**	**0.59**	<0.0025 o	<0.0025 o	<0.0025 o	<0.0025 o	--	--	
MW-21	11/08/12	<0.25	**0.29**	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	02/28/13	<0.25	**0.90**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	04/10/13	<0.25	**0.25**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	02/13/02	**0.96**	**9.2**	<0.5	**0.012**	**0.0053**	**0.017**	**0.0097**	--	--	
MW-22	05/21/02	**1.1**	**7.7**	<0.5	**0.16**	**0.049**	**0.023**	**0.030**	--	--	
MW-22	08/29/02	**1.4**	**2.4**	<0.5	**0.50**	**0.0093**	**0.044**	**0.0066**	--	--	
MW-22	11/05/02	**0.49**	**1.7**	<0.5	**0.14**	**0.0031**	**0.025**	<0.001	--	--	
MW-22	02/19/03	<0.25	**9.1**	<0.5	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	06/10/03	<0.25	**7.4**	**0.87a**	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	09/16/03	<0.25	**2.7**	<0.50	**0.0018**	<0.0005	<0.0005	<0.0005	--	--	
MW-22	11/19/03	<0.50	**8.4**	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-22	02/25/04	<0.25	**6.4**	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	05/11/04	<0.25	**2.0**	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	08/25/04	<0.25	**0.61**	<0.50	<0.001	<0.001	<0.001	<0.001	--	<0.005	
MW-22	12/14/04	<0.25	**1.1**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	03/10/05	<0.25	**2.2**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/07/05	<0.25	**3.0**	<0.50	**0.0049**	<0.001	<0.001	<0.001	--	--	

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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-22	09/20/05	**0.40**	**2.9**	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	12/13/05	<0.25	**0.71**	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	03/15/06	<0.25	**2.4**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/08/06	<0.25	**0.89**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	09/12/06	<0.25	**0.45**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	12/12/06	<0.25	**1.4**	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	06/19/07	<0.25	**1.1**	<0.50	**0.0094**	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/04/08	<0.25	**0.77**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--r	
MW-22	06/03/09	<0.25	**1.8**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/09/10	<0.25	**1.2**	<0.50	<0.0005	<0.0005	<0.0005	**0.0011**	--	--	
MW-22	05/23/11	<0.25	**2.7**	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-22	05/31/12	<1.0	**2.1**	**0.73**	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
MW-22	04/09/13	<0.25	**0.97**	<0.50	<0.0010 o	<0.0010 o	<0.0010 o	<0.0010 o	--	--	
MW-23	11/19/03	**5.3**	**1.4**	<0.50	**0.87**	**0.016**	**0.098**	**0.23**	--	--	
MW-23	02/25/04	**3.3**	**0.85**	<0.50	**0.91**	**0.011**	**0.046**	**0.030**	**0.0052**	<0.0050	
MW-23	05/12/04	**4.2**	**1.3**	<0.50	**1.1**	**0.013**	**0.046**	**0.048**	<0.0050	<0.0050	
MW-23	08/26/04	**5.3**	**0.72**	<0.50	**1.1**	**0.023**	**0.20**	**0.17**	**0.014**	<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	**6.3**	<0.25	<0.50	**1.3**	**0.014**	**0.048**	**0.044**	<0.0050	<0.0050	
MW-23	03/15/06	**7.0**	**0.28**	<0.50	**1.4**	**0.015**	**0.19**	**0.21**	<0.0050	<0.0050	
MW-23	06/08/06	**5.2**	**1.3**	<0.50	**1.4**	**0.014**	**0.11**	**0.11**	<0.0050	<0.0050	
MW-23	09/12/06	--	--	--	--	--	--	--	--	--	Not Sampled
MW-23	12/12/06	**8.1**	<0.25	<0.50	**1.8**	**0.020**	**0.11**	**0.16**	<0.0050	<0.0050	
MW-23	03/27/07	**8.4**	--	--	**1.8**	**0.019**	**0.16**	**0.16**	--	--	
MW-23	06/19/07	**8.7**	--	--	**1.8**	**0.021**	**0.23**	**0.23**	<0.0050	--	
MW-23	09/25/07	**6.9**	--	--	**1.5**	**0.021**	**0.085**	**0.11**	--	--	
MW-23	12/11/07	**9.1**	--	--	**1.3**	**0.022**	**0.053**	**0.097**	--	--	
MW-23	03/04/08	**7.8**	--	--	**1.5**	**0.018**	**0.089**	**0.10**	--	--	
MW-23	06/04/08	**19**	--	--	**2.4**	**0.061**	**0.59**	**3.2**	<0.0050	--r	
MW-23	09/08/08	**6.4**	--	--	**0.79**	**0.014**	**0.070**	**0.038**	--	--	
MW-23	12/04/08	**5.4**	--	--	**0.52**	**0.0088**	**0.091**	**0.063**	--	--	
MW-23	03/04/09	**4.8**	--	--	**0.81**	**0.012**	**0.27**	**0.11**	--	--	
MW-23	06/02/09	**5.7**	--	--	**0.21**	**0.0061**	**0.17**	**0.054**	<0.0050	--	
MW-23	09/21/09	**5.9**	--	--	**0.64**	**0.013**	**0.26**	**0.025**	--	--	
MW-23	11/16/09	**6.2**	--	--	**0.80**	**0.017**	**0.45**	**0.036**	--	--	
MW-23	03/08/10	**4.8**	--	--	**0.25**	**0.0077**	**0.19**	**0.031**	--	--	
MW-23	06/08/10	**5.5**	--	--	**0.39**	**0.0082**	**0.17**	**0.025**	<0.0050	--	
MW-23	09/10/10	**4.9**	--	--	**0.21**	**0.0044**	**0.11**	**0.019**	--	--	
MW-23	11/16/10	**4.5**	--	--	**0.37**	**0.010**	**0.23**	**0.020**	--	--	
MW-23	03/02/11	**5.0**	--	--	**0.21**	**0.0060**	**0.15**	**0.023**	--	--	
MW-23	05/24/11	**6.0**	--	--	**0.32**	**0.0053**	**0.16**	**0.027**	<0.0050	--	
MW-23	08/30/11	**6.0**	--	--	**0.15**	**0.0030**	**0.093**	**0.015**	--	--	
MW-23	12/02/11	**5.3**	--	--	**0.29**	**0.0076**	**0.13**	**0.017**	--	--	
MW-23	03/02/12	**4.0**	--	--	**0.12**	**0.0029**	**0.13**	**0.027**	--	--	
MW-23	05/30/12	**4.5**	--	--	**0.087**	<0.0025	**0.14**	**0.022**	<0.0050	--	
MW-23	08/25/12	**2.6**	--	--	**0.050**	<0.0025 o	**0.059**	**0.0046**	--	--	
MW-23	11/08/12	**2.3**	--	--	**0.021**	<0.0010	**0.065**	**0.0038**	--	--	

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-23	02/28/13	**2.6**	--	--	**0.034**	<0.0025 V	**0.160**	**0.010**	--	--	
MW-23	04/10/13	**0.54**	--	--	**0.015**	<0.0010 o	**0.015**	**0.0013**	<0.0050	--	
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	**--r**	
MW-24	09/08/08	**46**	--	--	**3.5**	**0.081**	**1.9**	**7.3**	--	--	
MW-24	12/05/08	**32**	--	--	**2.4**	**0.061**	**1.6**	**4.3**	--	--	
MW-24	03/04/09	**26**	--	--	**2.3**	**0.056**	**1.5**	**5.3**	--	--	
MW-24	06/02/09	**37**	--	--	**2.5**	**0.064**	**1.7**	**4.4**	**0.0062**	--	
MW-24	09/21/09	**28**	--	--	**1.6**	**0.042**	**1.3**	**4.2**	--	--	
MW-24	11/16/09	**20**	--	--	**1.1**	**0.027**	**0.94**	**2.7**	--	--	
MW-24	03/08/10	**31**	--	--	**2.5**	**0.058**	**1.6**	**5.1**	--	--	
MW-24	06/08/10	**37**	--	--	**3.1**	**0.084**	**2.2**	**7.1**	**0.019**	--	
MW-24	09/10/10	**28**	--	--	**2.4**	**0.066**	**1.8**	**4.3**	--	--	
MW-24	11/16/10	**26**	--	--	**1.3**	**0.051**	**1.5**	**5.8**	--	--	
MW-24	03/02/11	**26**	--	--	**2.2**	**0.057**	**1.3**	**4.8**	--	--	
MW-24	05/24/11	**11**	--	--	**1.2**	**0.028**	**0.51**	**1.3**	<0.0050	--	
MW-24	08/30/11	**30**	--	--	**2.0**	**0.057**	**1.4**	**4.2**	--	--	
MW-24	12/02/11	**18**	--	--	**0.37**	**0.016**	**0.42**	**2.56**	--	--	
MW-24	03/02/12	**8.7**	--	--	**0.53**	**0.014**	**0.25**	**1.1**	--	--	
MW-24	05/30/12	**7.3**	--	--	**0.39**	**0.013**	**0.30**	**0.88**	<0.0050	--	
MW-24	08/25/12	**11**	--	--	**0.560**	<0.020 V	**0.41**	**1.4**	--	--	
MW-24	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-24	04/10/13	**23**	--	--	**1.2**	**0.061**	**1.7**	**4.1**	**0.010**	--	
MW-24	04/10/13	**20**	--	--	**1.1**	**0.048**	**0.220**	**3.8**	--	--	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	

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-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	--r	
MW-25	06/03/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-25	06/09/10	<0.25	**0.32**	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050	--	
MW-25	05/25/11	<0.50	**1.4**	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	--	
MW-25	06/01/12	<0.25	<0.25	<0.50	**0.0011**	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-25	04/10/13	<0.25	<0.25	<0.50	**0.0013**	<0.0005	<0.0005	<0.0005	<0.0050	--	
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	
SH-02R	11/05/02	<0.25	**1.1**	<0.5	**0.016**	<0.0005	<0.0005	<0.0005	**0.005**	<0.005	
SH-02R	02/19/03	<0.25	<0.5	<0.5	<0.0005	**0.00086**	<0.0005	<0.0005	<0.005	<0.005	
SH-02R	06/10/03	<0.25	**0.97**	<0.25	<0.0005	**0.00051**	<0.0005	<0.0005	**0.0059**	<0.005	
SH-02R	09/16/03	<0.25	**3.0**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.010**	<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	**0.74**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	08/26/04	<0.25	**0.58**	<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	**0.31**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	09/21/05	<0.25	**0.58**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	12/14/05	<0.25	**0.30**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.0078**	<0.0050	
SH-02R	03/14/06	<0.25	**0.30**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.0072**	<0.0050	
SH-02R	06/07/06	<0.25	**0.59**	<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	**0.49**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	06/20/07	<0.25	**0.77**	<0.50	<0.0010	<0.0010	<0.0010	**0.0016**	<0.0050	--	
SH-02R	06/05/08	<0.25	**0.28**	<0.50	<0.0005	<0.0005	<0.0005	**0.00073**	<0.0050	--r	
SH-02R	06/01/09	<0.25	**0.37**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-02R	06/08/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-02R	05/23/11	<0.25	**0.29**	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
SH-02R	06/01/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-02R	04/09/13	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05	12/20/00	<0.05	**1.0**	<0.5	<0.001	<0.001	<0.003	<0.001	**0.017**	<0.004	
SH-05R	05/21/02	**0.71**	**11**	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
SH-05R	08/28/02	**0.77**	**10**	<0.5	<0.0005	**0.0015**	<0.0005	<0.0005	**0.006**	<0.005	
SH-05R	11/05/02	**1.4**	**7.1**	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	**0.008**	<0.005	
SH-05R	02/19/03	**0.80**	**6.8**	<0.5	<0.001	**0.0016**	<0.001	<0.001	<0.005	<0.005	
SH-05R	06/10/03	**1.1**	**45**	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	**0.04**	<0.005	
SH-05R	09/16/03	<0.25	**23**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.074**	<0.0050	

Table 2

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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-05R	11/19/03	**0.62**	**19**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.075**	<0.0050	
SH-05R	02/25/04	<0.25	**5.3**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	05/12/04	**0.43**	**4.3**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	08/26/04	**0.63**	**3.0**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05R	12/15/04	**0.30**	**10**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.0056**	<0.0050	
SH-05R	03/09/05	**0.78**	**4.3**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	06/08/05	**0.32**	**4.0**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	09/21/05	**0.61**	**2.8**	**1.0**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	12/14/05	**0.78**	**1.3**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	03/14/06	<0.25	**1.4**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.0074**	<0.0050	
SH-05R	06/07/06	<0.25	**1.4**	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050	<0.0050	
SH-05R	09/13/06	**0.34**	**0.56**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	12/13/06	<0.50	**1.9**	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	<0.0050	
SH-05R	06/20/07	**0.59**	**1.8**	<0.50	<0.0005	**0.00058**	<0.0005	<0.0005	<0.0050	--	
SH-05R	06/05/08	<0.25	**1.7**	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	**--r**	
SH-05R	06/01/09	**0.36**	**0.99**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05R	06/08/10	<0.25	**0.28**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05R	05/23/11	<0.25	**1.4**	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	--	
MW-07R	02/13/02	<0.25	**1.2**	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	**0.035**	<0.005	
MW-07R	05/21/02	<0.25	**2.1**	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	**0.005**	<0.005	
MW-07R	08/28/02	<0.25	**2.4**	<0.5	<0.0005	**0.0028**	<0.0005	**0.0012**	**0.006**	<0.005	
MW-07R	11/05/02	<0.25	**3.7**	<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	**1.9**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.045**	<0.0050	
MW-07R	11/19/03	<0.25	**2.1**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.020**	<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	**0.48**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	08/26/04	<0.25	**0.42**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0050	
MW-07R	12/15/04	<0.25	**0.85**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	**0.0076**	<0.0050	
MW-07R	03/09/05	<0.25	**0.54**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	06/08/05	<0.25	**0.46**	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	09/21/05	<0.25	**0.70**	<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	**0.25**	<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	**0.0065**	--	
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	--	
MW-07R	04/09/13	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
TMW-B1	10/29/09	**5.7**	<0.25	<0.50	**0.12**	**0.0070**	**0.058**	**0.15**	--	--	
TMW-B1	05/25/11	**9.1**	--	--	**0.024**	<0.0050	**0.24**	**0.56**	--	--	
TMW-B1	12/02/11	**6.6**	--	--	**0.091**	<0.0050	**0.15**	**0.26**	--	--	
TMW-B1	03/01/12	**8.0**	--	--	**0.079**	<0.0025	**0.28**	**0.55**	--	--	
TMW-B1	11/08/12	**3.7**	--	--	**0.160**	**0.010**	**0.019**	**0.036**	--	--	
TMW-B1	02/28/13	**14**	--	--	**0.026**	<0.010 V	**0.500**	**0.870**	--	--	

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

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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-5	03/27/07	0.80	--	--	--	--	--	
A-5	09/24/07	2.70	--	--	--	--	--	
A-5	12/11/07	1.46	--	--	--	--	--	
A-5	03/04/08	0.10	--	--	--	--	--	
A-5	06/03/08	1.90	--	--	--	--	--	
A-5	09/08/08	1.13	--	--	--	--	--	
A-5	12/05/08	0.41	--	--	--	--	--	
A-5	03/04/09	0.41	--	--	--	--	--	
A-5	06/02/09	0.61	--	--	--	--	--	
A-5	09/22/09	0.69	--	--	--	--	--	
A-5	11/17/09	0.24	--	--	--	--	--	
A-5	03/08/10	0.61	--	--	--	--	--	
A-5	06/09/10	0.00	--	--	--	--	--	
A-5	09/10/10	3.32	--	--	--	--	--	
A-5	11/16/10	0.30	--	--	--	--	--	
A-5	03/02/11	0.00	--	--	--	--	--	
A-5	05/25/11	1.28	--	--	--	--	--	
A-5	08/30/11	0.58	--	--	--	--	--	
A-5	12/02/11	1.41	--	--	--	--	--	
A-5	03/02/12	0.37	--	--	--	--	--	
A-5	06/01/12	0.00	--	--	--	--	--	
A-5	04/10/13	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-8	04/10/13	0.00	--	--	--	--	--	
A-10	02/14/02	2.50	**3**	**5.1**	--	**77.00**	**0.2**	
A-10	05/22/02	4.50	**7.4**	**17**	--	**49.00**	**0.1**	
A-10	08/28/02	1.40	**5.7**	**16**	--	**30.00**	**0.6**	
A-10	11/06/02	2.00	**5.9**	**15**	--	**10.00**	**0.3**	
A-10	02/20/03	2.70	**1.0**	**22**	--	**86**	<0.1	
A-10	06/10/03	1.40	**1.60**	**17.00**	--	**63.00**	**0.1**	
A-10	09/17/03	1.70	**3.20**	**47.00**	--	**12.00**	**0.6**	
A-10	11/20/03	1.40	**0.10**	**4.90**	--	**3.70**	**0.3**	
A-10	02/26/04	1.50	**0.24**	**5.10**	--	**61.00**	**0.2**	
A-10	05/12/04	0.60	**--*a**	**30.00**	--	**10.00**	<0.10	
A-10	08/25/04	1.65	**0.75**	**6.20**	--	**57.00**	**0.12**	
A-10	12/14/04	2.50	**0.093**	<0.050	--	**8.80**	<0.10	
A-10	03/10/05	2.58	**6.60**	**12.00**	--	**260.00**	<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	
A-10	06/07/05	1.51	**1.00**	**3.40**	--	**480.00**	**16**	
A-10	09/20/05	2.10	**2.40**	**5.60**	--	**320.00**	**0.23**	
A-10	12/13/05	2.20	**0.067**	<0.050	--	**56.00**	<0.10	
A-10	03/15/06	2.20	**2.50**	**42.00**	--	**60.00**	**0.18**	
A-10	06/08/06	1.00	**1.60**	**7.80**	--	**4.30**	**0.22**	
A-10	09/12/06	1.60	**1.40**	**15.00**	--	**140.00**	**0.18**	
A-10	12/12/06	2.00	**0.088**	**2.00**	--	**7.90**	<0.10	
A-10	06/19/07	2.70	--	--	--	--	--	
A-10	06/03/08	2.40	--	--	--	--	--	
A-10	06/02/09	0.45	--	--	--	--	--	
A-10	06/09/10	0.00	--	--	--	--	--	
A-10	05/25/11	0.97	--	--	--	--	--	
A-10	06/01/12	0.00	--	--	--	--	--	
A-10	04/10/13	0.00	--	--	--	--	--	
A-14R	02/14/02	7.50	**0.058**	**2.4**	--	**190.00**	**0.2**	
A-14R	05/22/02	4.10	**0.026**	**1.1**	--	**210.00**	**0.1**	
A-14R	08/28/02	1.50	**0.034**	**0.7**	--	**290.00**	<0.1	
A-14R	11/06/02	2.30	**0.054**	**0.4**	--	**290.00**	**0.1**	
A-14R	02/20/03	2.90	**0.26**	<0.2	--	**300**	<0.1	
A-14R	06/10/03	2.00	**0.21**	**2.20**	--	**220.00**	**0.3**	
A-14R	09/17/03	1.90	**2.40**	**3.40**	--	**240.00**	**0.2**	
A-14R	11/20/03	1.80	**0.45**	**2.40**	--	**250.00**	<0.1	
A-14R	02/26/04	1.40	**3.30**	**0.31**	--	**190.00**	**0.1**	
A-14R	05/12/04	2.30	**1.40**	<0.050	--	**130.00**	<0.10	
A-14R	08/25/04	3.22	**4.30**	**0.66**	--	**200.00**	<0.10	
A-14R	12/14/04	3.00	**3.50**	**1.00**	--	**230.00**	<0.10	
A-14R	03/10/05	2.15	**1.30**	**2.40**	--	**290.00**	<0.10	
A-14R	06/07/05	1.00	**0.28**	**0.16**	--	**220.00**	<0.2	
A-14R	09/20/05	--	--	--	--	--	--	Not Sampled
A-14R	12/13/05	1.10	**1.60**	**3.70**	--	**150.00**	<0.10	
A-14R	03/15/06	1.10	**0.82**	**0.14**	--	**80.00**	<0.10	
A-14R	06/08/06	2.40	**1.50**	**0.53**	--	**38.00**	<0.10	
A-14R	09/12/06	2.00	**0.19**	**0.80**	--	**110.00**	<0.10	
A-14R	06/19/07	1.90	--	--	--	--	--	
A-14R	12/12/07	2.90	**1.2**	**0.76**	--	**99.00**	<0.10	
A-14R	06/03/08	1.90	--	--	--	--	--	
A-14R	06/02/09	1.00	--	--	--	--	--	
A-14R	06/09/10	0.00	--	--	--	--	--	
A-14R	05/25/11	1.05	--	--	--	--	--	
A-14R	06/01/12	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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-14R	04/10/13	0.00	--	--	--	--	--	
A-21	02/14/02	0.20	**0.27**	**40.00**	--	**76.00**	<0.1	
A-21	05/22/02	4.20	**0.18**	**32.00**	--	**57.00**	<0.1	
A-21	08/29/02	2.10	**0.31**	**33.00**	--	**41.00**	**0.3**	
A-21	11/06/02	1.60	**0.64**	**32.00**	--	**32.00**	<0.1	
A-21	02/19/03	1.90	**1.60**	**28.00**	--	**2.90**	**0.1**	
A-21	06/10/03	1.30	**2.80**	**31.00**	--	**0.30**	**0.2**	
A-21	09/16/03	1.60	**4.10**	**33.00**	--	**5.30**	**0.7**	
A-21	11/19/03	1.70	**5.60**	**26.00**	--	**16.00**	**0.2**	
A-21	02/25/04	2.10	**2.60**	**31.00**	--	**1.20**	**0.4**	
A-21	05/12/04	0.80	**1.80**	**33.00**	--	**0.79**	<0.10	
A-21	08/25/04	1.44	**5.80**	**16.00**	--	**2.40**	**0.11**	
A-21	12/14/04	2.72	**11.00**	**4.60**	--	**0.74**	**0.12**	
A-21	03/10/05	1.50	**8.50**	**19.00**	--	**0.79**	<0.10	
A-21	06/07/05	1.50	**3.80**	**3.30**	--	<0.50	**0.7**	
A-21	09/20/05	2.60	**6.10**	**27.00**	--	<0.50	<0.10	
A-21	12/13/05	2.50	**7.50**	**30.00**	--	<0.50	<0.10	
A-21	03/15/06	2.50	**3.20**	**32.00**	--	<0.50	<0.10	
A-21	06/08/06	2.80	**2.20**	**33.00**	--	<0.50	<0.10	
A-21	09/12/06	2.60	**2.90**	**31.00**	--	<0.50	<0.10	
A-21	12/12/06	3.10	**3.20**	**46.00**	--	**130.00**	**0.11**	
A-21	03/27/07	3.80	--	--	--	--	--	
A-21	06/19/07	2.10	**0.19**	**24**	--	**120**	**0.13**	
A-21	09/25/07	3.00	--	--	--	--	--	
A-21	12/11/07	1.70	--	--	--	--	--	
A-21	03/04/08	0.30	--	--	--	--	--	
A-21	06/04/08	1.60	**0.11**	**20.00**	--	**150.00**	**0.14**	
A-21	09/08/08	1.71	--	--	--	--	--	
A-21	12/04/08	0.72	--	--	--	--	--	
A-21	03/04/09	0.37	--	--	--	--	--	
A-21	06/02/09	0.20	**0.028**	**8.00**	--	**320.00**	<0.10	
A-21	09/22/09	0.56	--	--	--	--	--	
A-21	11/17/09	0.39	--	--	--	--	--	
A-21	03/08/10	0.85	--	--	--	--	--	
A-21	06/08/10	0.33	**0.015**	**0.72**	--	**85.00**	<0.10	
A-21	09/10/10	3.49	--	--	--	--	--	
A-21	11/16/10	0.33	--	--	--	--	--	
A-21	03/02/11	1.50	--	--	--	--	--	
A-21	05/24/11	1.54	**0.038**	**0.19**	--	**25.00**	**0.10**	
A-21	08/30/11	0.38	--	--	--	--	--	

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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-21	12/02/11	0.70	--	--	--	--	--	
A-21	03/02/12	0.29	--	--	--	--	--	
A-21	05/30/12	0.00	<0.010	**9.60**	--	**940.00**	**0.15**	
A-21	04/10/13	0.00	<0.010	--	<0.25	**920.00**	<0.10	
A-23R	02/14/02	1.20	**1.70**	**29.00**	--	**580.00**	<0.10	
A-23R	05/20/02	2.30	**1.80**	**26.00**	--	**420.00**	<0.10	
A-23R	08/28/02	2.40	**4.10**	**13.00**	--	**270.00**	**0.20**	
A-23R	11/05/02	2.40	**3.60**	**11.00**	--	**200.00**	**1.60**	
A-23R	02/19/03	3.00	**6.10**	**12.00**	--	**120.00**	<0.10	
A-23R	06/10/03	1.80	**1.80**	**30.00**	--	**300.00**	**0.20**	
A-23R	09/16/03	1.40	**7.60**	**12.00**	--	**100.00**	**0.90**	
A-23R	11/19/03	1.50	**8.70**	**7.80**	--	**26.00**	**0.80**	
A-23R	02/25/04	1.70	**13.00**	**14.00**	--	**17.00**	**0.70**	
A-23R	05/12/04	4.70	**5.30**	**23.00**	--	**80.00**	<1.0	
A-23R	08/25/04	1.80	**10.00**	**11.00**	--	**31.00**	**0.34**	
A-23R	12/14/04	2.20	**12.00**	**9.80**	--	**6.40**	**0.25**	
A-23R	03/10/05	1.10	**7.30**	**30.00**	--	**220.00**	**0.20**	
A-23R	06/07/05	1.50	**5.60**	**28.00**	--	**200.00**	**1.90**	
A-23R	09/20/05	1.50	**2.60**	**34.00**	--	**270.00**	<0.10	
A-23R	12/14/05	0.80	**5.30**	**25.00**	--	**50.00**	**0.17**	
A-23R	03/15/06	0.80	**13.00**	**27.00**	--	**21.00**	**0.28**	
A-23R	06/08/06	0.70	**4.00**	**38.00**	--	**150.00**	**0.19**	
A-23R	09/12/06	1.40	**3.60**	**33.00**	--	**100.00**	<0.10	
A-23R	12/12/06	2.80	**16.00**	**24.00**	--	**4.20**	**0.31**	
A-23R	03/27/07	1.10	--	--	--	--	--	
A-23R	06/19/07	1.40	**3.00**	**32.00**	--	**180.00**	**0.11**	
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	**2.60**	**44.00**	--	**440.00**	<0.10	
A-23R	12/05/08	0.33	--	--	--	--	--	
A-23R	03/04/09	0.35	--	--	--	--	--	
A-23R	06/02/09	0.60	**2.10**	**22.00**	--	**290.00**	<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	**1.10**	**39.00**	--	**450.00**	<0.10	
A-23R	09/09/10	0.54	--	--	--	--	--	
A-23R	11/16/10	0.96	--	--	--	--	--	
A-23R	03/01/11	0.00	--	--	--	--	--	

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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-23R	05/24/11	0.59	**1.00**	**44.00**	--	**450.00**	**0.10**	
A-23R	08/29/11	0.55	--	--	--	--	--	
A-23R	12/02/11	1.15	--	--	--	--	--	
A-23R	03/01/12	1.47	--	--	--	--	--	
A-23R	05/30/12	0.00	<0.010	**86.00**	--	**470.00**	<0.10	
A-23R	04/08/13	0.21	<0.010	**11.00**	<0.25	**1,000**	<0.10	
A-27	02/14/02	6.70	**7.40**	**20.00**	--	**0.55**	**0.10**	
A-27	05/22/02	3.50	**9.10**	**27.00**	--	**1.60**	<0.10	
A-27	08/29/02	2.30	**7.50**	**24.00**	--	**0.29**	**0.20**	
A-27	11/06/02	0.70	**5.20**	**26.00**	--	<0.25	**0.20**	
A-27	02/19/03	3.20	**6.60**	**19.00**	--	<0.25	<0.10	
A-27	06/10/03	1.20	**10.00**	**19.00**	--	**0.77**	**0.10**	
A-27	09/16/03	1.00	**8.60**	**51.00**	--	**0.59**	**0.70**	
A-27	11/19/03	1.10	**8.90**	**19.00**	--	**0.33**	<0.10	
A-27	02/25/04	1.90	**12.00**	**27.00**	--	<0.25	**0.30**	
A-27	05/11/04	0.70	**8.40**	**25.00**	--	<0.50	<0.10	
A-27	08/25/04	1.68	**12.00**	**22.00**	--	<0.50	**0.13**	
A-27	12/14/04	1.32	**12.00**	**10.00**	--	<0.50	**0.12**	
A-27	03/10/05	1.62	**12.00**	**18.00**	--	**0.78**	<0.10	
A-27	06/07/05	1.00	**7.00**	**19.00**	--	<0.50	**0.30**	
A-27	09/20/05	3.10	**10.00**	**29.00**	--	**0.84**	**0.16**	
A-27	12/13/05	2.30	**16.00**	**24.00**	--	<0.50	<0.10	
A-27	03/15/06	2.30	**15.00**	**14.00**	--	<0.50	**0.16**	
A-27	06/08/06	1.20	**13.00**	**25.00**	--	**0.51**	**0.15**	
A-27	09/12/06	1.90	**12.00**	**19.00**	--	<0.50	**0.23**	
A-27	12/12/06	1.00	**13.00**	**24.00**	--	<0.50	<0.10	
A-27	03/27/07	1.40	--	--	--	--	--	
A-27	06/19/07	2.40	**11.00**	**7.50**	--	<1.0	**0.10**	
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	**9.90**	**10.00**	--	<0.50	**0.13**	
A-27	09/08/08	1.85	--	--	--	--	--	
A-27	12/05/08	0.39	--	--	--	--	--	
A-27	03/04/09	0.39	--	--	--	--	--	
A-27	06/02/09	0.63	**6.5**	**13**	--	**1.2**	<0.10	
A-27	09/22/09	0.45	--	--	--	--	--	
A-27	11/16/09	0.46	--	--	--	--	--	
A-27	03/09/10	1.32	--	--	--	--	--	
A-27	06/08/10	0.00	**3.90**	**12.00**	--	**2.10**	<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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-27	09/09/10	0.47	--	--	--	<0.50	--	
A-27	11/16/10	0.34	--	--	--	--	--	
A-27	03/02/11	0.00	--	--	--	--	--	
A-27	05/24/11	0.27	**3.30**	**8.80**	--	**2.20**	**0.10**	
A-27	08/30/11	0.36	--	--	--	--	--	
A-27	12/02/11	0.77	--	--	--	--	--	
A-27	03/01/12	0.32	--	--	--	--	--	
A-27	05/30/12	0.00	**2.60**	**21.00**	--	**1.10**	<0.10	
A-27	04/10/13	0.00	**3.90**	**21.00**	<0.25	**3.30**	<0.10	
A-28R	02/14/02	0.40	**8.80**	**59.00**	--	**1.20**	**0.30**	
A-28R	05/22/02	4.40	**3.40**	**42.00**	--	**28.00**	**0.30**	
A-28R	08/29/02	3.60	**6.20**	**45.00**	--	**0.73**	**0.30**	
A-28R	11/06/02	2.20	**5.90**	**46.00**	--	**0.57**	<0.1	
A-28R	02/19/03	3.00	**6.30**	**48.00**	--	**0.56**	<0.1	
A-28R	06/10/03	1.20	**6.10**	**42.00**	--	<0.25	<0.1	
A-28R	09/16/03	0.90	**10b**	**58.00**	--	**0.41**	**0.50**	
A-28R	11/19/03	1.20	**9.90**	**47.00**	--	**0.25**	<0.1	
A-28R	02/25/04	1.80	**9.60**	**46.00**	--	<0.25	**1.40**	
A-28R	05/12/04	1.90	**11.00**	**47.00**	--	<0.50	<0.10	
A-28R	08/25/04	0.50	**12.00**	**38.00**	--	**--*b**	**--*b**	
A-28R	12/14/04	1.72	**12.00**	**22.00**	--	<0.50	**0.12**	
A-28R	03/10/05	3.32	**14.00**	**42.00**	--	<0.50	<0.10	
A-28R	06/07/05	1.00	**13.00**	**35.00**	--	<0.50	**0.70**	
A-28R	09/20/05	--	--	--	--	--	--	Not Sampled
A-28R	12/13/05	0.89	**15.00**	**28.00**	--	<0.50	**0.13**	
A-28R	03/15/06	0.89	**15.00**	**45.00**	--	**1.30**	<0.10	
A-28R	06/08/06	0.80	**13.00**	**34.00**	--	<0.50	--	
A-28R	09/12/06	1.10	**16.00**	**35.00**	--	<0.50	<0.10	
A-28R	12/12/06	1.70	**13.00**	**25.00**	--	<0.50	<0.10	
A-28R	03/27/07	3.20	--	--	--	--	--	
A-28R	06/19/07	3.20	**12.00**	**32.00**	--	**2.50**	<0.10	
A-28R	09/24/07	2.90	--	--	--	--	--	
A-28R	12/11/07	2.60	--	--	--	--	--	
A-28R	03/04/08	0.80	--	--	--	--	--	
A-28R	06/04/08	2.30	**7.00**	**18.00**	--	<0.50	<0.10	
A-28R	12/04/08	0.36	--	--	--	--	--	
A-28R	03/04/09	0.44	--	--	--	--	--	
A-28R	06/02/09	0.46	**2.30**	**15.00**	--	**2.80**	**0.18**	
A-28R	09/22/09	0.55	--	--	--	--	--	
A-28R	11/16/09	0.52	--	--	--	--	--	

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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-28R	03/09/10	0.50	--	--	--	--	--	
A-28R	06/08/10	0.00	**2.40**	**31.00**	--	**18.00**	**0.29**	
A-28R	09/10/10	3.81	--	--	--	--	--	
A-28R	11/16/10	0.79	--	--	--	--	--	
A-28R	03/02/11	0.00	--	--	--	--	--	
A-28R	05/24/11	0.00	**3.60**	**39.00**	--	**1.60**	**0.13**	
A-28R	08/30/11	0.31	--	--	--	--	--	
A-28R	12/02/11	0.30	--	--	--	--	--	
A-28R	03/02/12	2.47	--	--	--	--	--	
A-28R	05/30/12	0.00	**2.00**	**42.00**	--	<0.50	**0.11**	
A-28R	04/10/13	1.48	**2.50**	**37.00**	<0.25	**7.90**	<0.10	
MW-1	02/13/02	0.70	**4.20**	**35.00**	--	**30.00**	<0.1	
MW-1	05/21/02	3.90	**6.80**	**48.00**	--	**31.00**	<0.1	
MW-1	08/28/02	3.20	**4.00**	**12.00**	--	**1.20**	**0.20**	
MW-1	11/05/02	1.90	**3.60**	**85.00**	--	**0.99**	**1.30**	
MW-1	02/19/03	3.60	**4.90**	**16.00**	--	**11.00**	**0.10**	
MW-1	06/10/03	1.30	**7.60**	**28.00**	--	**6.40**	<0.1	
MW-1	09/16/03	2.40	**5.60**	**25.00**	--	**5.20**	<0.1	
MW-1	11/19/03	1.90	**3.80**	**15.00**	--	**0.50**	<0.1	
MW-1	02/25/04	2.20	**2.60**	**21.00**	--	**17.00**	**0.20**	
MW-1	05/11/04	1.80	**1.60**	**27.00**	--	**11.00**	<0.10	
MW-1	08/25/04	2.38	**1.60**	**18.00**	--	**2.80**	<0.10	
MW-1	12/15/04	3.20	**1.40**	**4.30**	--	**26.00**	<0.10	
MW-1	03/09/05	3.40	**1.50**	**19.00**	--	**9.80**	<0.10	
MW-1	06/08/05	3.00	**0.82**	**11.00**	--	**15.00**	<0.2	
MW-1	09/21/05	3.50	**0.68**	**51.00**	--	**52.00**	<0.10	
MW-1	12/14/05	2.20	**1.10**	**18.00**	--	**21.00**	<0.10	
MW-1	03/14/06	1.10	**0.16**	**20.00**	--	**21.00**	<0.10	
MW-1	06/07/06	1.80	**0.14**	**23.00**	--	**86.00**	<0.10	
MW-1	09/13/06	2.20	**2.50**	**24.00**	--	**15.00**	<0.10	
MW-1	12/13/06	2.60	**0.22**	**6.60**	--	**49.00**	<0.10	
MW-1	06/20/07	3.40	--	--	--	--	--	
MW-1	03/04/08	1.20	--	--	--	**26.00**	--	
MW-1	06/05/08	2.70	--	--	--	**41.00**	--	
MW-1	06/02/09	0.68	--	--	--	--	--	
MW-1	06/08/10	0.00	--	--	--	--	--	
MW-1	05/24/11	0.12	--	--	--	--	--	
MW-1	05/31/12	0.00	--	--	--	--	--	
MW-1	04/10/13	0.61	--	--	--	--	--	
MW-2	02/13/02	0.40	<0.01	**0.60**	--	**15.00**	**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-2	05/21/02	3.10	<0.01	**0.90**	--	**12.00**	<0.1	
MW-2	08/29/02	2.10	**0.69**	**1.60**	--	**9.80**	<0.1	
MW-2	11/05/02	1.90	**1.20**	**5.10**	--	**9.60**	<0.1	
MW-2	02/19/03	2.10	**0.031**	**1.60**	--	**55.00**	<0.1	
MW-2	06/10/03	1.40	**0.059**	**1.60**	--	**25.00**	**0.30**	
MW-2	09/16/03	1.40	**1.10**	**12.00**	--	**21.00**	**0.60**	
MW-2	11/19/03	6.40	**0.13**	**0.40**	--	**8.30**	<0.1	
MW-2	02/25/04	4.30	**0.079**	**0.75**	--	**17.00**	**0.20**	
MW-2	05/11/04	2.70	**0.24**	**0.18**	--	**25.00**	<0.10	
MW-2	08/25/04	2.02	**0.11**	**0.063**	--	**21.00**	<0.10	
MW-2	12/14/04	2.72	**0.093**	<0.050	--	**11.00**	<0.10	
MW-2	03/10/05	1.00	**0.23**	**0.32**	--	**31.00**	<0.10	
MW-2	06/07/05	1.00	**0.44**	**0.059**	--	**21.00**	<0.2	
MW-2	09/20/05	1.70	**0.033**	<0.050	--	**25.00**	<0.10	
MW-2	12/13/05	3.00	**0.71**	**1.60**	--	**4.50**	<0.10	
MW-2	03/15/06	1.80	<0.010	<0.050	--	**17.00**	<0.10	
MW-2	06/08/06	1.20	**0.013**	<0.050	--	**10.00**	<0.10	
MW-2	09/12/06	1.50	**0.49**	<0.050	--	**13.00**	<0.10	
MW-2	12/12/06	1.20	**0.018**	**0.068**	--	**14.00**	<0.10	
MW-2	06/19/07	1.80	--	--	--	--	--	
MW-2	03/04/08	3.20	--	--	--	**19.00**	--	
MW-2	06/04/08	1.90	--	--	--	**12.00**	--	
MW-2	06/02/09	4.27	--	--	--	--	--	
MW-2	06/08/10	1.71	--	--	--	--	--	
MW-2	05/23/11	3.30	--	--	--	--	**0.0050**	
MW-2	05/31/12	1.83	--	--	--	--	**0.0050**	
MW-2	04/09/13	1.17	--	--	--	--	<0.10	
MW-3	02/13/02	0.30	**0.033**	**0.40**	--	**16.00**	**0.10**	
MW-3	05/20/02	4.10	**0.96**	**3.50**	--	**29.00**	**0.10**	
MW-3	08/28/02	2.60	**4.60**	**11.00**	--	**19.00**	**0.20**	
MW-3	11/06/02	2.90	**0.88**	**0.80**	--	**9.20**	**0.20**	
MW-3	02/19/03	8.60	**0.017**	**0.20**	--	**84.00**	**0.20**	
MW-3	06/11/03	6.54	**0.022**	**0.40**	--	**130.00**	**0.20**	
MW-3	09/17/03	6.50	**0.028**	**0.80**	--	**160.00**	<0.1	
MW-3	11/20/03	7.80	<0.01	<0.2	--	**66.00**	**0.20**	
MW-3	02/25/04	2.80	<0.01	<0.050	--	**35.00**	**0.20**	
MW-3	05/11/04	8.40	<0.010	<0.050	--	**59.00**	<0.10	
MW-3	08/25/04	1.80	<0.010	<0.050	--	**66.00**	<0.10	
MW-3	12/15/04	7.60	**0.059**	<0.050	--	**50.00**	<0.10	
MW-3	03/09/05	4.43	**1.80**	<0.050	--	**51.00**	<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-3	06/08/05	1.98	**3.30**	<0.050	--	**37.00**	<0.2	
MW-3	09/21/05	2.90	**4.30**	**0.064**	--	**47.00**	<0.10	
MW-3	12/14/05	1.80	**0.80**	<0.050	--	**72.00**	<0.10	
MW-3	03/14/06	3.10	**0.23**	<0.050	--	**22.00**	<0.10	
MW-3	06/07/06	1.80	**0.30**	<0.050	--	**21.00**	<0.10	
MW-3	09/13/06	2.60	**2.40**	<0.050	--	**30.00**	<0.10	
MW-3	12/13/06	0.80	**0.25**	**0.064**	--	**28.00**	<0.10	
MW-3	06/20/07	2.20	--	--	--	--	--	
MW-3	06/05/08	2.00	--	--	--	**15.00**	--	
MW-3	06/02/09	4.84	--	--	--	--	--	
MW-3	06/09/10	3.24	--	--	--	--	--	
MW-3	05/23/11	5.29	--	--	--	--	--	
MW-3	05/31/12	0.34	--	--	--	--	--	
MW-3	04/09/13	0.94	--	--	--	--	--	
MW-4	02/14/02	0.60	**5.80**	**32.00**	--	**3.10**	**0.70**	
MW-4	05/21/02	3.90	**1.90**	**23.00**	--	**1.60**	**0.50**	
MW-4	08/28/02	1.00	**5.10**	**86.00**	--	**2.90**	**--****	
MW-4	11/05/02	--	--	--	--	--	--	Not Sampled
MW-4	02/19/03	2.00	**1.80**	**120.00**	--	**270.00**	**--****	
MW-4	06/10/03	0.90	**4.90**	**36.00**	--	**8.40**	**0.60**	
MW-4	09/16/03	--	--	--	--	--	--	Not Sampled
MW-4	11/19/03	1.40	**1.90**	**31.00**	--	**49.00**	**0.60**	
MW-4	02/25/04	2.20	**1.20**	**32.00**	--	**1.00**	**0.30**	
MW-4	05/12/04	0.89	**4.90**	**37.00**	--	**5.30**	<0.10	
MW-4	08/26/04	2.32	**1.40**	**26.00**	--	**6.40**	**0.42**	
MW-4	12/15/04	--	--	--	--	--	--	Not Sampled
MW-4	03/09/05	1.37	**1.00**	**31.00**	--	**110.00**	**0.33**	
MW-4	06/08/05	1.50	**1.60**	**46.00**	--	**11.00**	**0.50**	
MW-4	09/21/05	1.30	**7.00**	**54.00**	--	**0.52**	**23.00**	
MW-4	12/14/05	2.40	**6.60**	**19.00**	--	**33.00**	**0.38**	
MW-4	03/14/06	2.40	**4.20**	**11.00**	--	**1.90**	**0.53**	
MW-4	06/07/06	3.20	**7.10**	**8.30**	--	<0.50	**0.54**	
MW-4	09/13/06	2.80	**7.60**	**15.00**	--	<0.50	**0.85**	
MW-4	12/13/06	2.90	**2.30**	**8.70**	--	**31.00**	<0.10	
MW-4	06/20/07	1.80	--	--	--	--	--	
MW-4	06/05/08	2.60	--	--	--	--	--	
MW-4	06/02/09	0.26	--	--	--	--	--	
MW-4	06/08/10	0.00	--	--	--	--	--	
MW-4	05/24/11	0.25	--	--	--	--	--	
MW-4	06/01/12	0.00	--	--	--	--	--	

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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-4	04/09/13	0.19	--	--	--	--	--	
MW-5	02/13/02	2.70	<0.01	<0.1	--	**12.00**	**0.20**	
MW-5	05/21/02	3.80	<0.01	**0.20**	--	**7.40**	**0.10**	
MW-5	08/29/02	1.40	**0.17**	**0.30**	--	**11.00**	**0.20**	
MW-5	11/05/02	4.10	**6.40**	**13.00**	--	**250.00**	**0.30**	
MW-5	02/20/03	2.00	**0.073**	<0.2	--	**6.20**	<0.1	
MW-5	06/11/03	1.60	**2.50**	**0.60**	--	**8.20**	**0.10**	
MW-5	09/16/03	1.20	**4.70**	**3.10**	--	**5.60**	**0.10**	
MW-5	11/20/03	4.90	<0.01	**0.30**	--	**4.70**	**0.20**	
MW-5	02/24/04	3.10	**0.33**	**0.062**	--	**5.80**	**0.10**	
MW-5	05/11/04	1.90	**0.61**	**1.50**	--	**3.00**	<0.10	
MW-5	08/26/04	1.22	<0.010	<0.050	--	**7.60**	<0.10	
MW-5	12/15/04	12.19	<0.010	<0.050	--	**4.30**	<0.10	
MW-5	03/09/05	6.22	**0.020**	<0.050	--	**15.00**	<0.10	
MW-5	06/08/05	2.50	<0.010	<0.050	--	**11.00**	<0.2	
MW-5	09/21/05	1.90	**0.080**	**0.077**	--	**8.90**	<0.10	
MW-5	12/14/05	2.20	<0.010	<0.050	--	**9.80**	**--*a**	
MW-5	03/14/06	2.20	<0.010	<0.050	--	**3.20**	<0.10	
MW-5	06/07/06	2.00	<0.010	<0.050	--	**4.50**	<0.10	
MW-5	09/13/06	2.10	**0.34**	<0.050	--	**6.60**	<0.10	
MW-5	12/13/06	2.30	<0.010	<0.050	--	**3.80**	<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-5	04/09/13	6.99	--	--	--	--	--	
MW-6	02/13/02	2.50	**2.60**	**2.40**	--	**26.00**	**0.20**	
MW-6	05/22/02	4.60	**1.20**	**6.00**	--	**22.00**	**0.10**	
MW-6	08/29/02	1.20	**0.72**	**4.10**	--	**11.00**	**0.10**	
MW-6	11/05/02	1.70	**1.70**	**10.00**	--	**5.60**	**0.70**	
MW-6	02/19/03	3.30	**1.20**	**7.30**	--	**62.00**	**0.10**	
MW-6	06/10/03	2.00	**0.87**	**5.90**	--	**17.00**	**0.20**	
MW-6	09/16/03	2.30	**1.60**	**41.00**	--	**2.90**	**1.00**	
MW-6	11/19/03	5.10	**1.70**	**5.40**	--	**19.00**	<0.1	
MW-6	02/25/04	2.40	<0.01	**0.49**	--	**24.00**	<0.1	
MW-6	05/11/04	1.20	**0.39**	**5.10**	--	**12.00**	<0.10	
MW-6	08/25/04	2.26	**0.59**	**4.90**	--	**8.70**	**0.18**	
MW-6	12/14/04	1.45	**2.80**	**2.50**	--	**9.90**	<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-6	03/10/05	0.70	**0.85**	**1.90**	--	**20.00**	**0.15**	
MW-6	06/07/05	3.80	**0.38**	**0.86**	--	**19.00**	**0.20**	
MW-6	09/20/05	0.90	**1.50**	**2.50**	--	**6.00**	**0.18**	
MW-6	12/13/05	1.00	**1.90**	**2.60**	--	**10.00**	**0.26**	
MW-6	03/15/06	1.00	**0.057**	**0.30**	--	**17.00**	<0.10	
MW-6	06/08/06	1.90	**0.22**	**5.90**	--	**7.30**	**0.39**	
MW-6	09/12/06	1.60	**0.98**	**2.50**	--	**3.10**	**0.33**	
MW-6	12/12/06	2.00	**0.032**	**1.60**	--	**49.00**	<0.10	
MW-6	03/27/07	2.30	--	--	--	--	--	
MW-6	06/19/07	1.40	**0.40**	**4.40**	--	**15.00**	**0.21**	
MW-6	09/24/07	3.40	--	--	--	--	--	
MW-6	12/11/07	3.16	--	--	--	--	--	
MW-6	03/04/08	1.50	--	--	--	--	--	
MW-6	06/04/08	2.90	**0.38**	**0.70**	--	**11.00**	**0.13**	
MW-6	09/08/08	0.89	--	--	--	--	--	
MW-6	12/04/08	0.33	--	--	--	--	--	
MW-6	03/04/09	0.57	--	--	--	--	--	
MW-6	06/02/09	1.37	**0.096**	**0.30**	--	**24.00**	<0.10	
MW-6	09/21/09	0.28	--	--	--	--	--	
MW-6	11/17/09	0.46	--	--	--	--	--	
MW-6	03/09/10	1.33	--	--	--	--	--	
MW-6	06/08/10	0.080	**0.036**	**0.22**	--	**11.00**	<0.10	
MW-6	09/09/10	0.40	--	--	--	**4.80**	--	
MW-6	11/15/10	0.42	--	--	--	--	--	
MW-6	03/02/11	1.20	--	--	--	--	--	
MW-6	05/23/11	1.86	**0.010**	<0.050	--	**10.00**	**0.10**	
MW-6	08/30/11	0.32	--	--	--	--	--	
MW-6	12/02/11	0.90	--	--	--	--	--	
MW-6	03/01/12	1.69	--	--	--	--	--	
MW-6	05/31/12	0.00	<0.010	<0.050	--	**18.00**	<0.10	
MW-6	04/09/13	1.20	<0.01	<0.050	**0.92**	**15.00**	<0.10	
MW-7	02/14/02	0.10	**13.00**	**17.00**	--	**2.20**	**0.20**	
MW-7	05/21/02	3.10	**15.00**	**13.00**	--	**1.10**	**0.30**	
MW-7	08/29/02	1.40	**14.00**	**9.80**	--	**20.00**	**0.40**	
MW-7	11/05/02	3.00	**14.00**	**8.90**	--	**7.00**	**0.50**	
MW-7	02/20/03	2.50	**13.00**	**13.00**	--	**21.00**	**1.10**	
MW-7	06/11/03	2.00	**17.00**	**12.00**	--	**1.10**	**0.50**	
MW-7	09/17/03	1.10	**14.00**	**2.70**	--	**3.00**	**1.10**	
MW-7	11/20/03	2.40	**0.98**	**0.90**	--	**19.00**	<0.1	
MW-7	02/26/04	6.20	**18.00**	**27.00**	--	**59.00**	**0.90**	

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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-7	05/11/04	1.00	**14.00**	**16.00**	--	**12.00**	**0.15**	
MW-7	08/26/04	3.80	**15.00**	**13.00**	--	**9.20**	**0.47**	
MW-7	12/15/04	1.30	**10.00**	**20.00**	--	**68.00**	**0.19**	
MW-7	03/09/05	1.45	**18.00**	**9.30**	--	**4.50**	**0.45**	
MW-7	06/08/05	10.50	**17.00**	**8.70**	--	**1.40**	**0.40**	
MW-7	09/20/05	--	--	--	--	--	--	Not Sampled
MW-7	09/21/05	--	--	--	--	--	--	Not Sampled
MW-7	12/14/05	1.70	**22.00**	**19.00**	--	**75.00**	**0.16**	
MW-7	03/14/06	1.70	**18.00**	**9.70**	--	**19.00**	**0.36**	
MW-7	06/07/06	1.60	**19.00**	**2.70**	--	**17.00**	**0.43**	
MW-7	09/13/06	2.00	**17.00**	**1.80**	--	**2.10**	**0.17**	
MW-7	12/13/06	--	--	--	--	--	--	Not Sampled
MW-7	03/27/07	1.90	--	--	--	--	--	
MW-7	06/20/07	1.00	**23.00**	**2.90**	--	**8.30**	**0.45**	
MW-7	09/24/07	2.60	--	--	--	--	--	
MW-7	12/11/07	3.22	--	--	--	--	--	
MW-7	03/04/08	1.30	--	--	--	**13.00**	--	
MW-7	06/04/08	1.30	**19.00**	**0.15**	--	**2.30**	**0.63**	
MW-7	09/08/08	0.73	--	--	--	--	--	
MW-7	12/05/08	0.40	--	--	--	--	--	
MW-7	03/04/09	0.70	--	--	--	--	--	
MW-7	06/02/09	0.37	**25.00**	**2.80**	--	**21.00**	**0.42**	
MW-7	09/22/09	0.54	--	--	--	--	--	
MW-7	11/17/09	0.64	--	--	--	--	--	
MW-7	03/09/10	0.18	--	--	--	--	--	
MW-7	06/09/10	0.00	**27.00**	**1.10**	--	**1.60**	**0.44**	
MW-7	09/09/10	0.25	--	--	--	**3.60**	--	
MW-7	11/15/10	0.47	--	--	--	--	--	
MW-7	03/01/11	0.00	--	--	--	--	--	
MW-7	05/24/11	0.00	**3.50**	**1.80**	--	**5.10**	**0.55**	
MW-7	08/29/11	0.44	--	--	--	--	--	
MW-7	12/01/11	0.42	--	--	--	--	--	
MW-7	03/01/12	0.25	--	--	--	--	--	
MW-7	05/31/12	0.00	**14.00**	**1.50**	--	**2.40**	**0.70**	
MW-7	04/09/13	0.26	**3.70**	**3.30**	<0.25	**4.70**	<0.10	
MW-8	02/14/02	2.50	**0.24**	**0.20**	--	**5.50**	**0.20**	
MW-8	08/29/02	6.20	**0.90**	**2.30**	--	**3.70**	**0.20**	
MW-8	11/05/02	2.10	**5.50**	**3.40**	--	**7.50**	**0.10**	
MW-8	02/20/03	2.90	**0.56**	**0.50**	--	**7.60**	**0.30**	
MW-8	06/11/03	1.56	**18.00**	**0.30**	--	<0.25	**0.40**	

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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-8	09/17/03	2.50	**11.00**	**6.10**	--	**6.70**	**0.40**	
MW-8	11/20/03	1.70	<0.010	<0.2	--	**11.00**	**0.10**	
MW-8	02/26/04	2.30	<0.01	**0.57**	--	**4.40**	**0.20**	
MW-8	05/11/04	3.10	**0.19**	**0.12**	--	**5.30**	<0.10	
MW-8	08/26/04	3.32	**0.36**	<0.050	--	**11.00**	<0.10	
MW-8	12/15/04	2.30	<0.010	<0.050	--	**15.00**	<0.10	
MW-8	03/09/05	2.22	<0.010	<0.050	--	**7.30**	<0.10	
MW-8	06/08/05	6.50	**0.018**	<0.050	--	**7.40**	<0.2	
MW-8	09/21/05	2.10	**4.40**	**0.51**	--	**11.00**	<0.10	
MW-8	12/14/05	2.50	**4.00**	<0.050	--	**11.00**	<0.10	
MW-8	03/14/06	2.50	<0.010	<0.050	--	**6.40**	<0.10	
MW-8	06/07/06	1.30	**0.53**	<0.050	--	**6.00**	<0.10	
MW-8	09/13/06	1.60	**7.10**	**0.068**	--	**5.00**	<0.10	
MW-8	12/13/06	3.10	<0.010	<0.050	--	**41.00**	<0.10	
MW-8	06/20/07	2.20	--	--	--	--	--	
MW-8	06/04/08	2.50	--	--	--	--	--	
MW-8	06/02/09	1.52	--	--	--	--	--	
MW-8	06/09/10	1.55	--	--	--	--	--	
MW-8	05/23/11	0.85	--	--	--	--	--	
MW-8	05/31/12	0.79	--	--	--	--	--	
MW-8	04/10/13	4.32	--	--	--	--	--	
MW-9	06/11/03	2.10	**6.60**	**15.00**	--	**2.00**	**0.70**	
MW-9	09/17/03	2.10	**9.80**	**19.00**	--	**1.50**	**0.70**	
MW-9	11/20/03	1.60	**2.20**	**14.00**	--	**66.00**	**0.30**	
MW-9	02/26/04	1.10	**15.00**	**12.00**	--	**8.10**	**0.80**	
MW-9	05/11/04	0.90	**4.10**	**0.25**	--	**0.62**	**0.12**	
MW-9	08/26/04	1.80	**8.20**	**15.00**	--	**1.00**	**0.41**	
MW-9	12/15/04	1.76	**5.30**	**29.00**	--	**180.00**	<0.10	
MW-9	03/09/05	4.70	**4.30**	**7.20**	--	**4.40**	**0.30**	
MW-9	06/08/05	4.50	**6.50**	**8.40**	--	**6.10**	**0.30**	
MW-9	09/21/05	1.70	**11.00**	**14.00**	--	**1.90**	**0.21**	
MW-9	12/14/05	3.30	**10.00**	**9.10**	--	**17.00**	**0.11**	
MW-9	03/14/06	3.30	**12.00**	**3.40**	--	**1.40**	**0.51**	
MW-9	06/07/06	0.90	**4.60**	**5.60**	--	**0.94**	**0.13**	
MW-9	09/13/06	1.90	**7.40**	**7.50**	--	<0.50	<0.10	
MW-9	12/13/06	2.40	**0.72**	**3.60**	--	**12.00**	**0.19**	
MW-9	03/27/07	2.90	--	--	--	--	--	
MW-9	06/20/07	2.90	**3.50**	**6.00**	--	<0.50	**0.42**	
MW-9	09/24/07	2.50	--	--	--	--	--	
MW-9	12/11/07	1.76	--	--	--	--	--	

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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-9	03/04/08	1.50	--	--	--	--	--	
MW-9	06/04/08	1.80	**3.50**	**7.90**	--	**0.80**	**0.40**	
MW-9	09/08/08	1.25	--	--	--	--	--	
MW-9	12/05/08	0.47	--	--	--	--	--	
MW-9	03/04/09	0.32	--	--	--	--	--	
MW-9	06/02/09	0.51	**0.57**	**1.50**	--	**10.00**	<0.10	
MW-9	09/22/09	1.16	--	--	--	--	--	
MW-9	11/17/09	0.48	--	--	--	--	--	
MW-9	03/09/10	0.48	--	--	--	--	--	
MW-9	06/09/10	0.00	**7.50**	**2.90**	--	**4.80**	**0.49**	
MW-9	09/09/10	0.37	--	--	--	**2.00**	--	
MW-9	11/15/10	0.39	--	--	--	--	--	
MW-9	03/01/11	0.00	--	--	--	--	--	
MW-9	05/24/11	0.00	**18.00**	<0.050	--	**3.60**	**0.10**	
MW-9	08/29/11	0.27	--	--	--	--	--	
MW-9	12/01/11	0.66	--	--	--	--	--	
MW-9	03/01/12	1.35	--	--	--	--	--	
MW-9	05/31/12	0.00	**0.13**	<0.050	--	**5.30**	<0.10	
MW-9	04/10/13	0.00	**6.10**	<0.050	**0.88**	**3.20**	<0.10	
MW-12R	06/01/09	0.36	--	--	--	--	--	
MW-12R	06/08/10	0.19	--	--	--	--	--	
MW-12R	05/23/11	0.55	--	--	--	--	**0.0050**	
MW-12R	06/01/12	0.00	--	--	--	--	**0.0050**	
MW-12R	04/09/13	0.21	--	--	--	--	<0.10	
MW-13R	06/01/09	0.49	--	--	--	--	--	
MW-13R	06/08/10	0.00	--	--	--	--	--	
MW-13R	05/23/11	0.18	--	--	--	--	**0.0050**	
MW-13R				Destroyed during construction activities				
MW-14	02/13/02	1.40	**2.80**	**22.00**	--	**21.00**	**0.30**	
MW-14	05/21/02	4.00	**6.20**	**22.00**	--	**11.00**	**0.60**	
MW-14	08/29/02	2.20	**5.90**	**20.00**	--	**52.00**	**0.70**	
MW-14	11/05/02	2.40	**11.00**	**23.00**	--	**39.00**	**0.80**	
MW-14	02/20/03	1.90	**3.50**	**20.00**	--	**35.00**	**0.80**	
MW-14	06/11/03	1.50	**2.90**	**19.00**	--	**4.30**	**0.40**	
MW-14	09/16/03	1.30	**0.86**	**15.00**	--	**0.89**	**0.50**	
MW-14	11/20/03	3.70	**0.57**	**4.90**	--	**31.00**	<0.1	
MW-14	02/24/04	4.30	**2.40**	**19.00**	--	**0.60**	**0.60**	
MW-14	05/11/04	0.10	**2.30**	**19.00**	--	<0.50	<0.10	
MW-14	08/26/04	1.01	**2.90**	**13.00**	--	**47.00**	**0.38**	
MW-14	12/15/04	2.88	**4.50**	**0.13**	--	**110.00**	<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-14	03/09/05	2.99	**6.80**	**12.00**	--	**41.00**	**0.30**	
MW-14	06/08/05	2.00	**4.30**	**15.00**	--	**18.00**	**0.40**	
MW-14	09/21/05	2.00	**7.60**	**19.00**	--	**8.20**	**0.36**	
MW-14	12/14/05	2.10	**8.90**	**9.50**	--	**21.00**	<0.10	
MW-14	03/14/06	2.10	**1.50**	**7.90**	--	**33.00**	**0.12**	
MW-14	06/07/06	1.50	**1.50**	**11.00**	--	**16.00**	**1.10**	
MW-14	09/13/06	1.80	**6.80**	**14.00**	--	**1.70**	**0.22**	
MW-14	12/13/06	2.20	**2.20**	**5.80**	--	**25.00**	<0.10	
MW-14	03/27/07	2.70	--	--	--	--	--	
MW-14	06/20/07	3.40	**2.90**	**7.50**	--	**4.90**	**0.79**	
MW-14	09/24/07	3.10	--	--	--	--	--	
MW-14	12/11/07	1.76	--	--	--	--	--	
MW-14	03/04/08	1.10	--	--	--	--	--	
MW-14	06/04/08	2.70	**2.00**	**3.40**	--	**8.90**	**0.58**	
MW-14	09/08/08	0.69	--	--	--	--	--	
MW-14	12/05/08	0.45	--	--	--	--	--	
MW-14	03/04/09	0.81	--	--	--	--	--	
MW-14	06/02/09	0.89	**0.15**	**0.12**	--	**34.00**	<0.10	
MW-14	09/21/09	0.92	--	--	--	--	--	
MW-14	11/17/09	1.01	--	--	--	--	--	
MW-14	03/08/10	0.32	--	--	--	--	--	
MW-14	06/08/10	0.25	**0.72**	**0.18**	--	**8.50**	<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	**0.18**	**0.10**	--	**14.00**	**0.10**	
MW-14	08/29/11	0.19	--	--	--	--	--	
MW-14	12/01/11	0.31	--	--	--	--	--	
MW-14	03/01/12	1.10	--	--	--	--	--	
MW-14	05/31/12	0.00	**0.086**	<0.050	--	**10.00**	<0.10	
MW-14	04/09/13	0.45	**0.25**	<0.050	**0.46**	**9.20**	<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-16	04/09/13	1.40	--	--	--	--	--	
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	--	--	--	--	--	

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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-18	06/04/08	3.10	--	--	--	--	--	
MW-18	09/08/08	1.26	--	--	--	--	--	
MW-18	12/04/08	0.21	--	--	--	--	--	
MW-18	03/04/09	0.94	--	--	--	--	--	
MW-18	06/02/09	0.47	--	--	--	--	--	
MW-18	09/22/09	0.63	--	--	--	--	--	
MW-18	11/17/09	8.07	--	--	--	--	--	
MW-18	03/09/10	0.90	--	--	--	--	--	
MW-18	06/08/10	0.00	--	--	--	--	--	
MW-18	09/10/10	3.84	--	--	--	--	--	
MW-18	11/16/10	0.59	--	--	--	--	--	
MW-18	03/02/11	0.030	--	--	--	--	--	
MW-18	05/23/11	0.00	--	--	--	--	--	
MW-18	08/30/11	0.28	--	--	--	--	--	
MW-18	12/02/11	0.57	--	--	--	--	--	
MW-18	03/02/12	0.57	--	--	--	--	--	
MW-18	05/31/12	0.00	--	--	--	--	--	
MW-18	04/09/13	0.34	--	--	--	--	--	
MW-19	02/13/02	3.50	**13.00**	**22.00**	--	**0.43**	**0.60**	
MW-19	05/21/02	3.20	**15.00**	**13.00**	--	**0.39**	**0.50**	
MW-19	08/29/02	0.90	**13.00**	**19.00**	--	<0.25	**0.60**	
MW-19	11/05/02	2.70	**10.00**	**19.00**	--	<0.25	**0.40**	
MW-19	02/20/03	3.20	**13.00**	**43.00**	--	**23.00**	**0.50**	
MW-19	06/11/03	0.50	**16.00**	**37.00**	--	**11.00**	**0.40**	
MW-19	09/16/03	1.40	**18.00**	**30.00**	--	**5.20**	**0.70**	
MW-19	11/20/03	4.80	**18.00**	**49.00**	--	**10.00**	**0.50**	
MW-19	02/24/04	2.10	**20.00**	**39.00**	--	**1.80**	**0.60**	
MW-19	05/11/04	0.60	**17.00**	**30.00**	--	**0.98**	**0.24**	
MW-19	08/26/04	2.83	**15.00**	**15.00**	--	<0.50	**0.20**	
MW-19	12/15/04	3.89	**21.00**	**44.00**	--	**31.00**	**0.22**	
MW-19	03/09/05	3.42	**22.00**	**25.00**	--	**5.30**	**0.26**	
MW-19	06/08/05	0.89	**15.00**	**18.00**	--	**12.00**	**0.60**	
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	**18.00**	**7.90**	--	<0.50	**0.55**	
MW-19	09/13/06	2.10	**19.00**	**10.00**	--	<0.50	**1.30**	
MW-19	12/13/06	3.90	**19.00**	**30.00**	--	**16.00**	**0.43**	
MW-19	03/27/07	2.50	--	--	--	--	--	
MW-19	06/20/07	1.90	**23.00**	**9.30**	--	<0.50	**0.19**	

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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-19	09/24/07	3.70	--	--	--	--	--	
MW-19	12/11/07	2.13	--	--	--	--	--	
MW-19	03/04/08	1.90	--	--	--	--	--	
MW-19	06/04/08	3.40	**21.00**	**7.00**	--	**0.86**	**0.46**	
MW-19	09/08/08	1.02	--	--	--	--	--	
MW-19	12/05/08	0.27	--	--	--	--	--	
MW-19	03/04/09	0.52	--	--	--	--	--	
MW-19	06/02/09	0.37	**28.00**	**6.30**	--	<0.50	**0.18**	
MW-19	09/21/09	0.35	--	--	--	--	--	
MW-19	11/17/09	0.86	--	--	--	--	--	
MW-19	03/08/10	0.69	--	--	--	--	--	
MW-19	06/08/10	0.00	**27.00**	**10.00**	--	<0.50	<0.10	
MW-19	09/09/10	0.41	--	--	--	**39.00**	--	
MW-19	11/15/10	0.35	--	--	--	--	--	
MW-19	03/01/11	0.00	--	--	--	--	--	
MW-19	05/24/11	0.69	**28.00**	**1.70**	--	**3.80**	**0.11**	
MW-19	08/29/11	0.21	--	--	--	--	--	
MW-19	12/01/11	0.41	--	--	--	--	--	
MW-19	03/01/12	0.26	--	--	--	--	--	
MW-19	05/31/12	0.00	**13.00**	**10.00**	--	<0.50	**0.21**	
MW-19	04/09/13	0.01	**27.00**	**7.50**	<0.25	<0.50	<0.10	
MW-20	02/13/02	0.40	**8**	**6.6**	--	**9.70**	<0.1	
MW-20	05/20/02	2.30	**16**	**4.1**	--	**7.70**	**0.1**	
MW-20	08/29/02	2.60	**12**	**5.4**	--	**7.90**	**0.3**	
MW-20	11/06/02	5.70	**0.10**	**4.2**	--	**610.00**	**0.3**	
MW-20	06/11/03	15.00	<0.01	**7.30**	--	**2200.00**	**0.2**	
MW-20	09/17/03	14.00	<0.010	**2.00**	--	**1800.00**	**0.5**	
MW-20	11/20/03	13.00	**0.15**	**1.70**	--	**1900.00**	<0.1	
MW-20	02/25/04	14.00	**0.026**	**0.34**	--	**2100.00**	**--****	
MW-20	05/11/04	7.50	**0.048**	**0.29**	--	**2100.00**	<0.10	
MW-20	08/26/04	2.00	**16.00**	**140.00**	--	**970.00**	<0.10	
MW-20	12/15/04	3.34	**0.71**	**27.00**	--	**550.00**	**0.28**	
MW-20	03/09/05	2.82	**0.25**	**18.00**	--	**470.00**	<0.10	
MW-20	06/08/05	2.50	**10.00**	**18.00**	--	**480.00**	**0.20**	
MW-20	12/14/05	3.20	**0.28**	**15.00**	--	**250.00**	**0.21**	
MW-20	03/14/06	3.20	**0.98**	**5.50**	--	**56.00**	<0.10	
MW-20	06/07/06	1.00	**15.00**	**7.40**	--	**68.00**	<0.10	
MW-20	09/13/06	2.50	**23.00**	**17.00**	--	**110.00**	<0.10	
MW-20	12/13/06	2.30	**3.3**	**2.30**	--	**69.00**	<0.10	
MW-20	06/20/07	4.10	--	--	--	--	--	

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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
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-20	04/09/13	0.48	--	--	--	--	--	
MW-21	02/19/03	6.90	**0.061**	**1.9**	--	**1400**	<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	**0.013**	**2.80**	--	**17.00**	**0.5**	
MW-21	02/26/04	1.00	**12.00**	**17.00**	--	**12.00**	**0.9**	
MW-21	05/11/04	1.80	**4.70**	**12.00**	--	**0.92**	<0.10	
MW-21	08/26/04	2.80	**2.00**	**1.80**	--	<0.50	**0.13**	
MW-21	12/15/04	--	--	--	--	--	--	Not Sampled
MW-21	03/09/05	0.99	**4.30**	**9.80**	--	<0.50	<0.10	
MW-21	06/08/05	3.50	**1.80**	**11.00**	--	**1.20**	**0.5**	
MW-21	09/21/05	2.40	**15.00**	**7.20**	--	<0.50	**0.14**	
MW-21	12/14/05	1.20	**18.00**	**0.19**	--	**5.30**	**0.18**	
MW-21	03/14/06	1.20	<0.010	**0.10**	--	**3.20**	<0.10	
MW-21	06/07/06	1.20	**1.70**	**9.90**	--	**2.30**	**0.37**	
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	**9.10**	**4.20**	--	<0.50	<0.10	
MW-21	09/24/07	2.50	--	--	--	--	--	
MW-21	12/11/07	2.60	--	--	--	--	--	
MW-21	03/04/08	2.50	--	--	--	--	--	
MW-21	06/04/08	2.80	**14.00**	**7.40**	--	<0.50	**0.13**	
MW-21	09/08/08	0.77	--	--	--	--	--	
MW-21	12/05/08	1.24	--	--	--	--	--	
MW-21	03/04/09	0.84	--	--	--	--	--	
MW-21	06/02/09	1.29	**7.10**	**4.00**	--	**3.90**	**0.23**	
MW-21	09/22/09	0.79	--	--	--	--	--	
MW-21	11/17/09	2.17	--	--	--	--	--	
MW-21	03/09/10	1.03	--	--	--	--	--	
MW-21	11/15/10	0.72	--	--	--	--	--	
MW-21	03/01/11	0.11	--	--	--	--	--	
MW-21	05/24/11	0.41	**0.85**	**0.11**	--	**4.30**	**0.10**	
MW-21	08/29/11	0.55	--	--	--	--	--	

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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-21	12/01/11	1.16	--	--	--	--	--	
MW-21	03/01/12	0.79	--	--	--	--	--	
MW-21	05/31/12	0.00	**0.24**	**0.092**	--	**5.70**	**0.22**	
MW-21	04/10/13	0.00	**0.62**	<0.050	**0.70**	**4.20**	<0.10	
MW-22	02/13/02	6.70	**0.3**	**10**	--	**6.40**	<0.1	
MW-22	05/21/02	4.40	**1.2**	**9.1**	--	**1.70**	**0.2**	
MW-22	08/29/02	0.70	**2.4**	**9.1**	--	**2.20**	**0.2**	
MW-22	11/05/02	1.60	**1.1**	**5.6**	--	**99.00**	**0.2**	
MW-22	02/19/03	2.10	<0.01	**4.7**	--	**120**	**0.1**	
MW-22	06/10/03	1.30	**0.087**	**5.00**	--	**110.00**	**0.5**	
MW-22	09/16/03	2.40	**2.0**	**55.00**	--	**230.00**	**1.6**	
MW-22	11/19/03	6.60	**0.056**	**2.30**	--	**100.00**	**0.4**	
MW-22	02/25/04	8.20	<0.01	**2.40**	--	**43.00**	**0.4**	
MW-22	05/11/04	5.10	<0.010	**0.48**	--	**36.00**	<0.10	
MW-22	08/25/04	2.72	**1.4**	**2.70**	--	**59.00**	**--*b**	
MW-22	12/14/04	1.35	**3.2**	**5.50**	--	**65.00**	<0.10	
MW-22	03/10/05	1.40	**0.38**	**9.20**	--	**23.00**	**0.61**	
MW-22	06/07/05	4.20	**0.53**	**6.30**	--	**25.00**	**0.7**	
MW-22	09/20/05	3.70	**0.86**	**27.00**	--	**24.00**	**0.16**	
MW-22	12/13/05	2.10	**3.8**	**12.00**	--	**25.00**	**3.0**	
MW-22	03/15/06	2.10	**0.033**	**4.40**	--	**14.00**	<0.10	
MW-22	06/08/06	2.60	**0.62**	**4.50**	--	**17.00**	**0.19**	
MW-22	09/12/06	2.60	**2.2**	**4.50**	--	**19.00**	**0.11**	
MW-22	12/12/06	0.90	**0.010**	**2.20**	--	**7.3**	<0.10	
MW-22	06/19/07	1.80	--	--	--	--	--	
MW-22	06/04/08	2.60	--	--	--	--	--	
MW-22	06/02/09	0.50	--	--	--	--	--	
MW-22	06/09/10	0.00	--	--	--	--	--	
MW-22	09/09/10	0.36	--	--	--	<0.50	--	
MW-22	05/23/11	0.00	--	--	--	--	--	
MW-22	05/31/12	0.00	--	--	--	--	--	
MW-22	04/09/13	0.46	--	--	--	--	--	
MW-23	02/25/04	1.60	**12**	**15**	--	**13.00**	**0.4**	
MW-23	05/12/04	1.80	**13**	**19**	--	**3.60**	**0.16**	
MW-23	08/26/04	1.41	**10**	**14**	--	**21.00**	**0.11**	
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	**16**	**1.2**	--	<0.50	**0.25**	

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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-23	03/15/06	2.30	**17**	**20**	--	<0.50	**0.23**	
MW-23	06/08/06	1.10	**18**	**18**	--	<0.50	**0.20**	
MW-23	09/12/06	--	--	--	--	--	--	Not Sampled
MW-23	12/12/06	1.90	**27**	**27**	--	<0.50	**0.24**	
MW-23	03/27/07	2.40	--	--	--	--	--	
MW-23	06/19/07	1.20	**13**	**18**	--	<1.0	**0.19**	
MW-23	09/25/07	2.90	--	--	--	--	--	
MW-23	12/11/07	2.77	--	--	--	--	--	
MW-23	03/04/08	2.40	--	--	--	--	--	
MW-23	06/04/08	1.70	**12**	**63**	--	**1.0**	**0.48**	
MW-23	12/04/08	0.53	--	--	--	--	--	
MW-23	03/04/09	0.80	--	--	--	--	--	
MW-23	06/02/09	0.42	**9.5**	**17**	--	**57**	**0.92**	
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	**11.00**	**22.00**	--	**4.20**	**0.52**	
MW-23	09/10/10	3.49	--	--	--	--	--	
MW-23	11/16/10	0.46	--	--	--	--	--	
MW-23	03/02/11	0.00	--	--	--	--	--	
MW-23	05/24/11	0.33	**14.00**	**31.00**	--	**0.80**	**0.10**	
MW-23	08/30/11	1.10	--	--	--	--	--	
MW-23	12/02/11	0.89	--	--	--	--	--	
MW-23	03/02/12	0.65	--	--	--	--	--	
MW-23	05/30/12	0.00	**5.50**	**41.00**	--	**74.00**	**0.38**	
MW-23	04/10/13	0.00	**1.90**	**92.00**	<0.25	**1,000**	<0.10	
MW-24	02/25/04	1.70	**15**	**22**	--	**6.40**	**0.3**	
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	--	**25**	**46**	--	<0.50	**0.23**	
MW-24	06/08/06	1.60	**7.6**	**9.1**	--	<0.50	**0.42**	
MW-24	09/12/06	--	--	--	--	--	--	Not Sampled
MW-24	12/12/06	2.30	**16**	**3.2**	--	<0.50	**0.31**	
MW-24	03/27/07	2.20	--	--	--	--	--	

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

Sample ID	Date	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-24	06/19/07	1.40	**15**	**68**	--	<0.50	**1.7**	
MW-24	09/25/07	2.30	--	--	--	--	--	
MW-24	12/11/07	1.19	--	--	--	--	--	
MW-24	03/04/08	2.20	--	--	--	--	--	
MW-24	06/04/08	2.10	**15**	**17**	--	**7.4**	**0.85**	
MW-24	09/08/08	1.38	--	--	--	--	--	
MW-24	12/05/08	0.33	--	--	--	--	--	
MW-24	03/04/09	0.83	--	--	--	--	--	
MW-24	06/02/09	0.46	**12**	**37**	--	<0.50	<0.10	
MW-24	09/21/09	0.77	--	--	--	--	--	
MW-24	11/16/09	0.78	--	--	--	--	--	
MW-24	03/08/10	0.29	--	--	--	--	--	
MW-24	06/08/10	0.00	**12.00**	**35.00**	--	<0.50	**0.23**	
MW-24	09/10/10	3.70	--	--	--	--	--	
MW-24	11/16/10	0.47	--	--	--	--	--	
MW-24	03/02/11	0.00	--	--	--	--	--	
MW-24	05/24/11	0.53	**12.00**	**26.00**	--	**0.78**	**0.11**	
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	**7.50**	**31.00**	--	**2.40**	**0.15**	
MW-24	04/10/13	0.53	**19.00**	**35.00**	<0.25	**1.00**	<0.10	
MW-25	02/26/04	1.30	**1.5**	**27**	--	**120.00**	**0.9**	
MW-25	05/12/04	1.90	**2.0**	**12**	--	**140.00**	**0.10**	
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	--	--	--	--	--	

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 mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-25	04/10/13	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	--	--	--	--	--	
SH-02R	06/02/09	0.25	--	--	--	--	--	
SH-02R	06/08/10	0.24	--	--	--	--	--	
SH-02R	05/23/11	0.41	--	--	--	--	**0.0050**	
SH-02R	06/01/12	0.00	--	--	--	--	**0.0050**	
SH-02R	04/09/13	0.22	--	--	--	--	<0.10	
SH-05	12/20/00	--	**0.010**	**1.80**	--	**6.00**	<0.01	
SH-05				Destroyed during construction activities				
SH-05R	05/21/02	3.90	**1.50**	**10.00**	--	**16.00**	**0.30**	
SH-05R	08/28/02	1.40	**1.00**	**11.00**	--	**1.40**	**0.50**	
SH-05R	11/05/02	1.50	**1.20**	**17.00**	--	**6.30**	<0.1	
SH-05R	02/19/03	2.60	**2.90**	**32.00**	--	**28.00**	<0.1	
SH-05R	06/10/03	1.40	**1.50**	**33.00**	--	**2.80**	**0.60**	
SH-05R	09/16/03	1.20	**1.60**	**41.00**	--	**0.46**	**0.90**	
SH-05R	11/19/03	3.10	**1.60**	**36.00**	--	**71.00**	**0.50**	
SH-05R	02/25/04	2.50	**0.56**	**0.087**	--	**120.00**	**0.20**	

Table 3

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

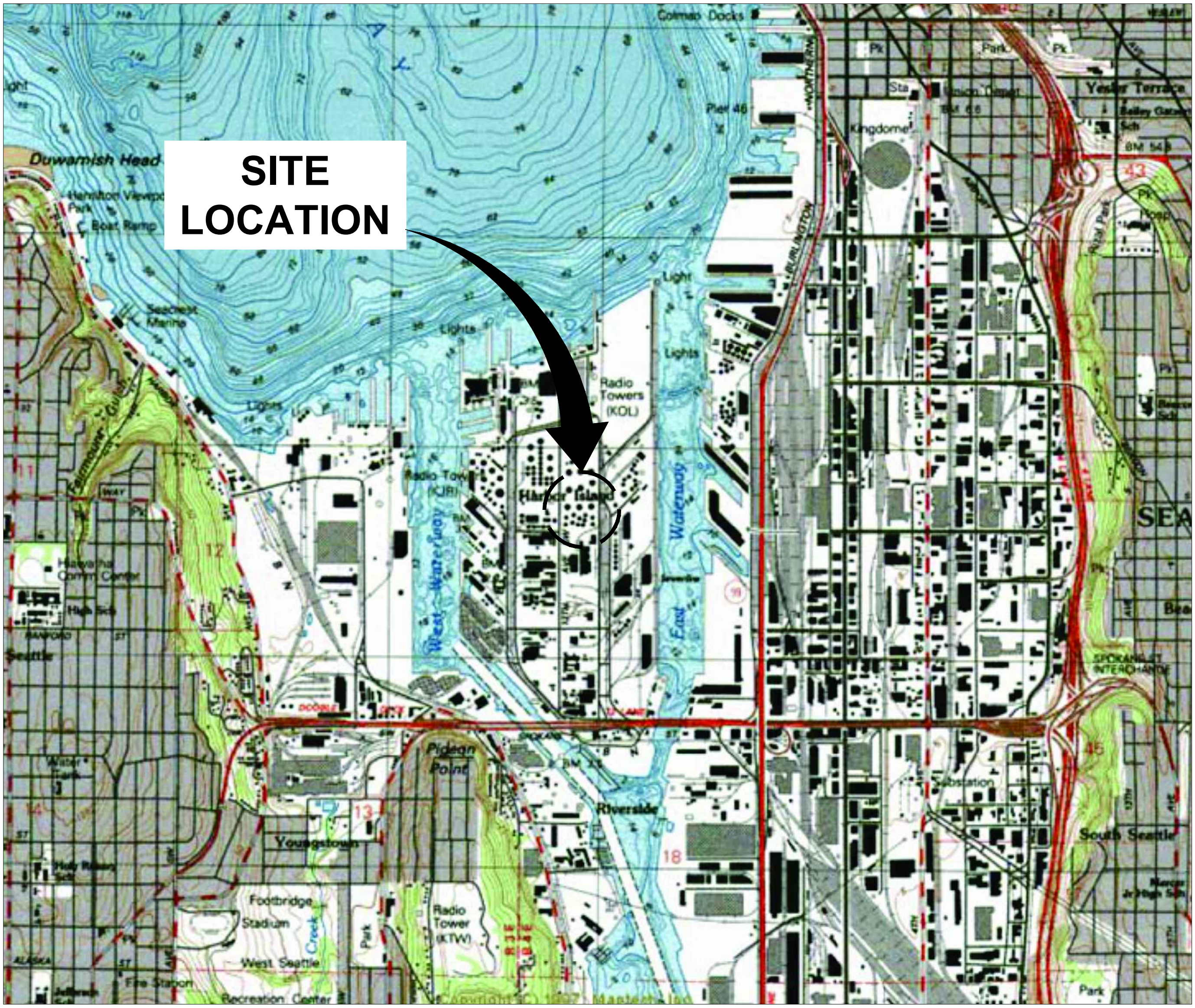
Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Ferrous Iron	Nitrate	Sulfate	Sulfide	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
SH-05R	05/12/04	1.12	**2.10**	**16.00**	--	**4.60**	<0.10	
SH-05R	08/26/04	1.96	**2.00**	**6.40**	--	**0.63**	<0.10	
SH-05R	12/15/04	2.80	**3.70**	**26.00**	--	**26.00**	<0.10	
SH-05R	03/09/05	2.56	**3.40**	**2.00**	--	**7.50**	<0.10	
SH-05R	06/08/05	2.50	**3.80**	**19.00**	--	**30.00**	<0.2	
SH-05R	09/21/05	0.80	**3.10**	**9.10**	--	<0.50	<0.10	
SH-05R	12/14/05	2.30	**5.40**	**23.00**	--	**16.00**	<0.10	
SH-05R	03/14/06	2.30	**0.11**	**0.087**	--	**35.00**	<0.10	
SH-05R	06/07/06	1.20	**1.90**	**8.40**	--	**21.00**	<0.10	
SH-05R	09/13/06	1.40	**2.20**	**7.40**	--	<0.50	<0.10	
SH-05R	12/13/06	2.70	**0.14**	**0.11**	--	**100.00**	<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	--	--	--	--	**0.0050**	
MW-07R	02/13/02	3.00	**0.078**	**5.00**	--	**8.30**	**0.20**	
MW-07R	05/21/02	3.50	**0.22**	**3.50**	--	**3.80**	**0.20**	
MW-07R	08/28/02	1.60	**0.17**	**6.90**	--	**9.00**	**0.10**	
MW-07R	11/05/02	1.60	**0.16**	**12.00**	--	**2.70**	<0.1	
MW-07R	02/19/03	--	--	--	--	--	--	Not Sampled
MW-07R	06/10/03	--	--	--	--	--	--	Not Sampled
MW-07R	09/16/03	1.40	**0.26**	**26.00**	--	**9.10**	**1.60**	
MW-07R	11/19/03	2.20	**0.017**	**4.90**	--	**14.00**	**0.30**	
MW-07R	02/25/04	2.10	<0.01	**1.80**	--	**5.70**	**0.30**	
MW-07R	05/12/04	2.49	<0.010	**2.20**	--	**3.40**	<0.10	
MW-07R	08/26/04	2.05	**0.011**	**0.12**	--	**12.00**	<0.10	
MW-07R	12/15/04	2.00	**0.034**	**1.40**	--	**10.00**	<0.10	
MW-07R	03/09/05	2.15	**0.030**	**4.20**	--	**120.00**	<0.10	
MW-07R	06/08/05	1.98	<0.010	**0.25**	--	**5.70**	<0.2	
MW-07R	09/21/05	2.80	**0.13**	<0.050	--	**15.00**	<0.10	
MW-07R	12/14/05	1.50	<0.010	<0.050	--	**5.70**	<0.10	
MW-07R	03/14/06	1.50	**0.23**	**2.30**	--	**8.90**	<0.10	
MW-07R	06/07/06	2.20	<0.010	**0.28**	--	**3.90**	<0.10	
MW-07R	09/13/06	1.20	**0.26**	**3.40**	--	**8.50**	<0.10	
MW-07R	12/13/06	1.90	<0.010	<0.050	--	**23.00**	<0.10	
MW-07R	06/20/07	1.70	--	--	--	--	--	
MW-07R	06/05/08	1.90	--	--	--	--	--	
MW-07R	06/02/09	1.29	--	--	--	--	--	
MW-07R	06/08/10	1.11	--	--	--	--	--	

Table 3

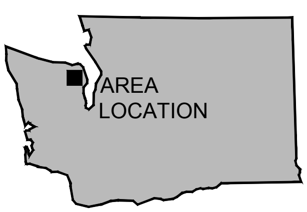
Groundwater Natural Attenuation Parameters
Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample ID	Date	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-07R	05/23/11	3.20	--	--	--	--	**0.0050**	
MW-07R	06/01/12	1.03	--	--	--	--	**0.0050**	
MW-07R	04/09/13	1.35	--	--	--	--	<0.10	
TMW-B1	06/09/10	1.06	--	--	--	**3.60**	--	
TMW-B1	09/09/10	0.25	--	--	--	<0.50	--	
TMW-B1	05/25/11	1.51	--	--	--	--	--	
TMW-B1	12/02/11	0.33	--	--	--	--	--	
TMW-B1	03/01/12	0.30	--	--	--	--	--	

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.



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



WASHINGTON

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.

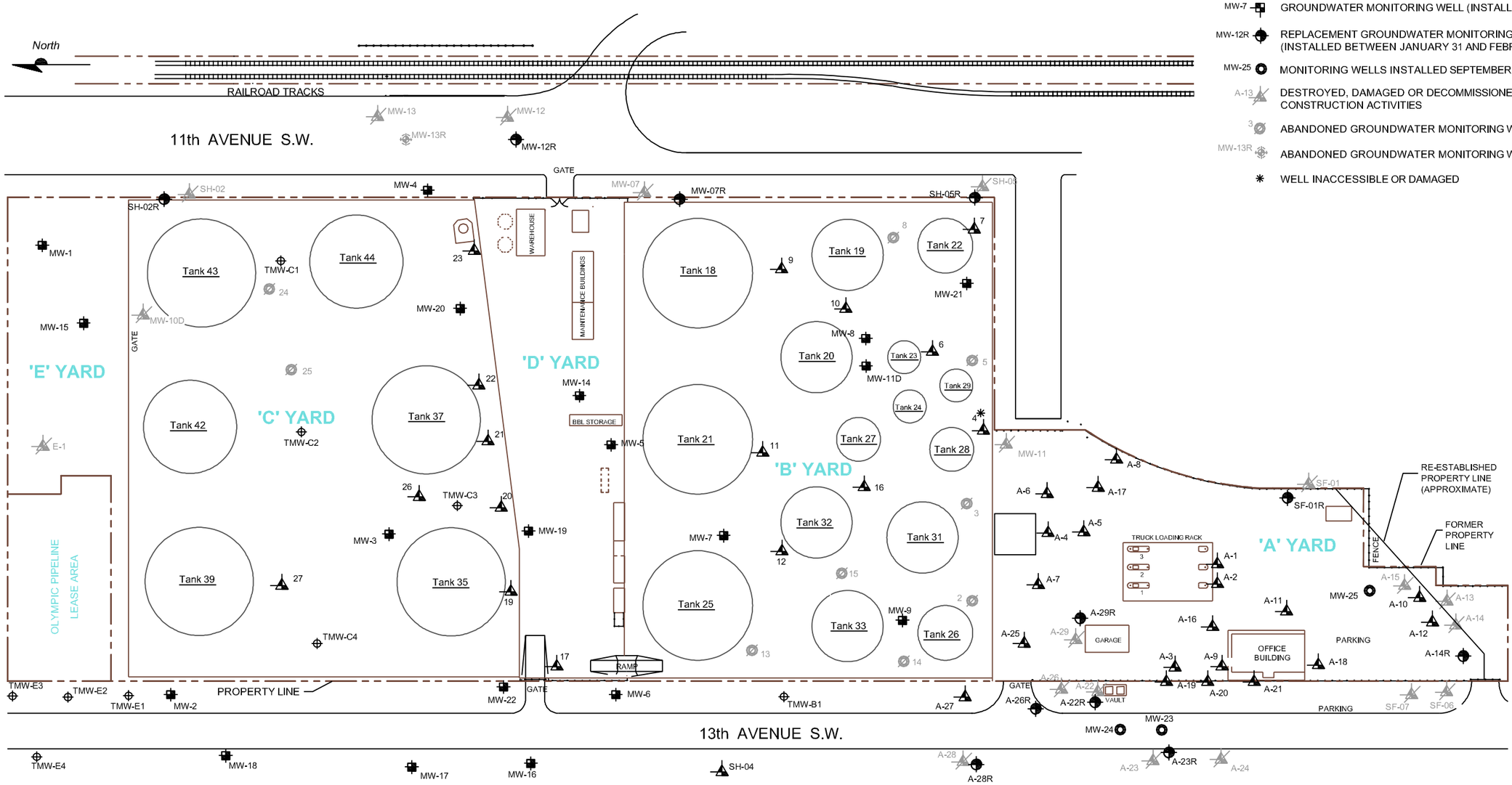
KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
SECOND QUARTER 2013
GROUNDWATER MONITORING REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Emeryville\ACT\WA000804\2013\0002\2013 2Q GWMR\DWG\WA000804 N01.dwg LAYOUT: 1 SAVED: 5/21/2013 10:36 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 5/28/2013 2:25 PM BY: REYES, ALEC
XREFS: IMAGES: WA000804 GoogleAerial.jpg WA000804 USGS.jpg PROJECTNAME: ----



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

KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
SECOND QUARTER 2013
GROUNDWATER MONITORING REPORT

SITE PLAN

ARCADIS

FIGURE 2

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(On)=*;Off=*REF*
G:\ENVCAD\Emeryville\ACTIVITY\WA000804\2013\000002\2013 GWMRDWG\WA000804 B02.dwg LAYOUT: 2 SAVED: 5/14/2013 12:13 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 5/14/2013 12:13 PM BY: REYES, ALEC
XREFS: IMAGES: PROJECTNAME: --

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
- (8.30) — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

North

RAILROAD TRACKS

11th AVENUE S.W.

MW-13 MW-13R MW-12 MW-12R (8.59)

GATE

SH-02 SH-02R (8.63) MW-4 (8.95) MW-07 MW-07R (8.43) SH-05 SH-05R (8.30)

MW-1 (8.09) MW-15 MW-10D

'E' YARD

'C' YARD

'D' YARD

'B' YARD

'A' YARD

Tank 43 Tank 44 Tank 42 Tank 37 Tank 39 Tank 35 Tank 18 Tank 19 Tank 22 Tank 20 Tank 23 Tank 29 Tank 24 Tank 21 Tank 27 Tank 28 Tank 32 Tank 31 Tank 25 Tank 33 Tank 26

TMW-C1 TMW-C2 TMW-C3 TMW-C4

MW-20 (9.49) MW-14 (9.26) MW-5 (9.44) MW-19 (9.57) MW-3 (9.35) MW-7 (8.74) MW-9 (7.73) MW-8 (8.22) MW-11D MW-21 (7.42) MW-11

WAREHOUSE MAINTENANCE BUILDINGS BBL STORAGE

OLYMPIC PIPELINE LEASE AREA

TRUCK LOADING RACK GARAGE OFFICE BUILDING VAULT PARKING

A-1 A-2 A-3 A-4 (6.39) A-5 (6.57) A-6 (6.35) A-7 A-8 (6.94) A-9 A-10 (6.90) A-11 (6.98) A-12 (6.67) A-13 A-14 A-14R (6.87) A-15 A-16 (6.83) A-17 A-18 (7.69) A-19 (6.89) A-20 (7.23) A-21 (7.12) A-22 A-22R (6.80) A-23 A-23R (6.94) A-24 A-25 (6.82) A-26 A-26R (6.85) A-27 (6.98) A-28 A-28R (7.26) A-29 A-29R

SF-01 SF-01R SF-06 SF-07

MW-25

RE-ESTABLISHED PROPERTY LINE (APPROXIMATE)

FORMER PROPERTY LINE

FENCE

RAMP

TMW-E1 TMW-E2 TMW-E3 TMW-E4 MW-2 (8.86) MW-22 (9.04) MW-6 (8.95) TMW-B1 MW-18 (9.10) MW-17 MW-16 (8.95) SH-04 MW-24 (7.07) MW-23 (7.00)

PROPERTY LINE

13th AVENUE S.W.

0 60' 120' 240'

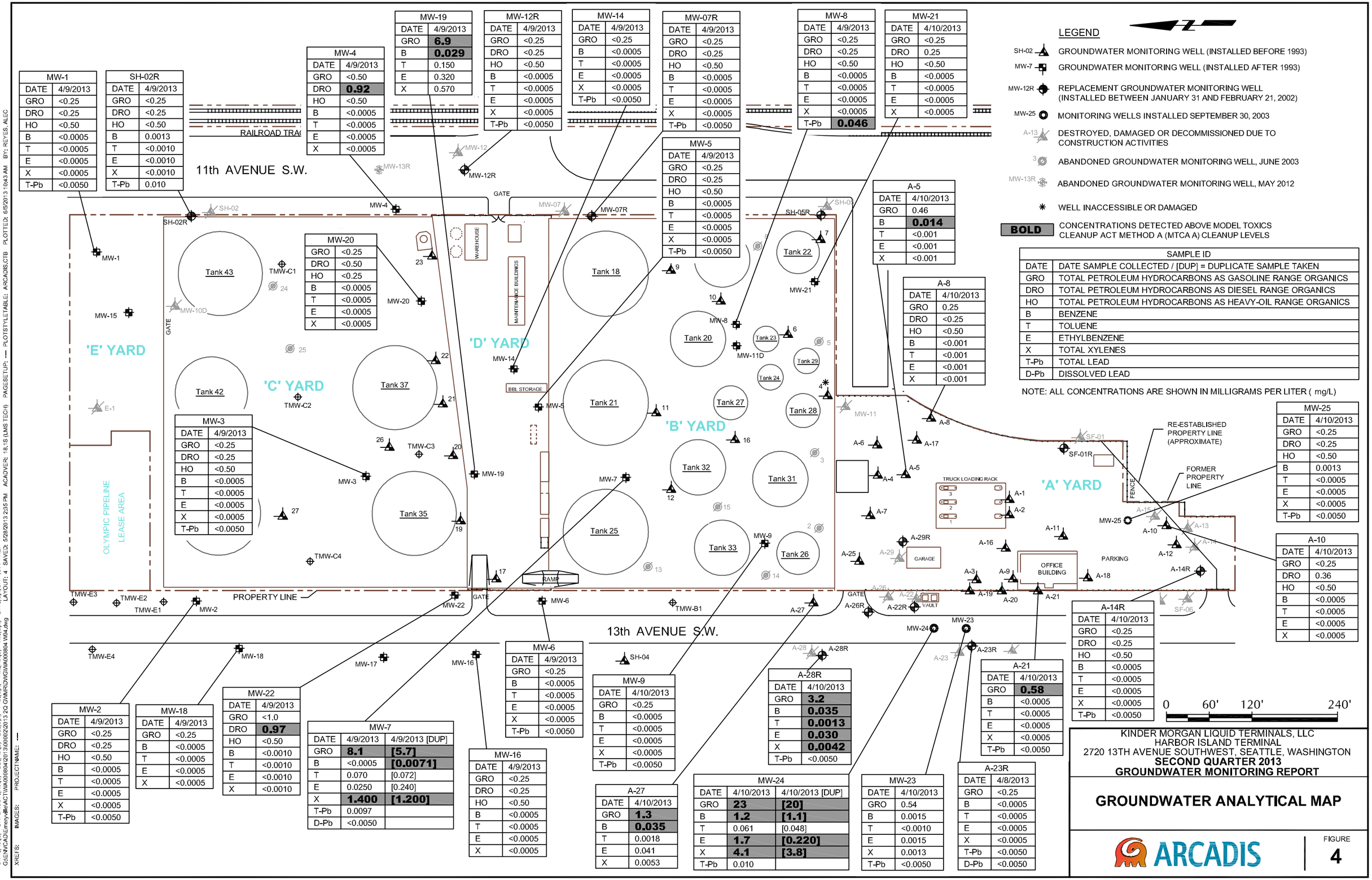
KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
SECOND QUARTER 2013
GROUNDWATER MONITORING REPORT

GROUNDWATER ELEVATION MAP

ARCADIS

FIGURE 3

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt.) PIC:(Opt.) PM:(Reqd) TM:(Opt.) LYR:(On)=ON;*OFF*=*REF* ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 6/6/2013 10:26 AM BY: REYES, ALEC
G:\ENVCAD\Emeryville\ACT\WA000804\2013\000\02\2013 2Q GWMRD\WGWWA000804 W03.dwg LAYOUT: 3 SAVED: 5/23/2013 3:10 PM
XREFS: IMAGES: PROJECTNAME: ---



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

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

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

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

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

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

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

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

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

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

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

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

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

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

MW-22	
DATE	4/9/2013
GRO	<1.0
DRO	**0.97**
HO	<0.50
B	<0.0010
T	<0.0010
E	<0.0010
X	<0.0010

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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** — CONCENTRATIONS DETECTED ABOVE MODEL TOXICS CLEANUP ACT METHOD A (MTCA A) CLEANUP LEVELS

SAMPLE ID	
DATE	DATE SAMPLE COLLECTED / [DUP] = DUPLICATE SAMPLE TAKEN
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
T-Pb	TOTAL LEAD
D-Pb	DISSOLVED LEAD

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

KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
SECOND QUARTER 2013
GROUNDWATER MONITORING REPORT

GROUNDWATER ANALYTICAL MAP

ARCADIS

FIGURE 4

CITY:(Req'd) DIV/GROUP:(Req'd) DB:(Req'd) LD:(Opt) PIC:(Opt) PM:(Req'd) TM:(Opt) LYRS:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Emeryville\ACTIVITY\A000804\2013\000002013 2Q GWMR\DWG\WA000804 W04.dwg LAYOUT: 4 SAVED: 5/28/2013 2:35 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 6/6/2013 10:43 AM BY: REYES, ALEC
XREFS: IMAGES: PROJECTNAME: --

June 21, 2007

Mr. Roger Nye
Washington State Department of Ecology
Northwest Regional Office
3190 160th 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

DELTA

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 13th 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.

4006 148TH AVENUE NE REDMOND, WASHINGTON 98052 USA
PHONE 425.882.3528 / 800.477.7411 FAX 425.869.1892 WWW.DELTAENV.COM

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

	Indicator Hazardous Substances				Natural Attenuation Parameters				
Well ID	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
ANNUAL TOTAL:	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)	Ethyl-benzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
MW-1	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*
	12/13/06	**<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*
	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*[a]
	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*
	12/12/06	**<0.25**	**<0.25**	**<0.50**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0050***
MW-3	02/13/02	<0.25	1.8	<0.5	0.011	0.0015	0.0045	0.011	<0.005*
	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*
	12/13/06	**<0.25**	**<0.25**	**<0.50**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0050***
Dup-2^	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*
	12/13/06	**<0.25**	**<0.25**	**<0.50**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0050***

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)
MW-4	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
	12/13/06	**<0.25**	**3.7**	**0.62**	**0.0012**	**<0.0005**	**<0.0005**	**0.0023**	**NA**
MW-5	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*
	12/13/06	**<0.25**	**<0.25**	**<0.50**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**0.0088***
MW-6	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*
	12/12/06	**<0.25**	**<0.25**	**<0.50**	**<0.0005**	**0.00055**	**<0.0005**	**<0.0005**	**<0.0050***

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)
MW-7	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*[a]
	06/11/03	5.7	8.7	<0.25	0.13	0.092	0.26	0.52	0.081*[a]
	09/17/03	1.4	12	<0.50	0.078	0.031	0.15	0.089	0.11*[a]
	11/20/03	0.26	0.8	<0.50	<0.0005	<0.0005	<0.0005	0.035	0.019*[a]
	02/26/04	15	21	<0.50	0.11	0.34	0.63	3.8	0.034*[a]
	05/11/04	6.3	11	<0.50	0.059	0.15	0.31	1.3	0.0083*[a]
	08/26/04	7.1	20	<0.50	0.054	0.22	0.34	1.7	0.067*[a]
	12/15/04	18	4.4	<0.50	0.14	0.37	0.53	3	0.19*[a]
	03/09/05	3.5	2.1	<0.50	0.045	0.034	0.09	0.27	0.079*[a]
	06/08/05	2.9	2.3	<0.50	0.054	0.05	0.11	0.44	0.069*[a]
	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*[a]
	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*[a]
	12/13/06	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
MW-8	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*
	12/13/06	**<0.25**	**0.82**	**<0.50**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**0.0060***
MW-9	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*
	12/13/06	**2.6**	**3.8**	**<0.50**	**<0.0025**	**<0.0025**	**0.024**	**0.190**	**0.025***

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)
MW-12	06/20/01	<0.06	1.7	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004
MW-12R	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*
	12/13/06	**<0.25**	**0.27**	**<0.50**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0050***
	.								
MW-13	06/19/01	<0.05	1.3	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004
MW-13R	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*
	12/13/06	**<0.25**	**0.33**	**<0.50**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0077***

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)
MW-14	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
	12/13/06	**1.1**	**1.4**	**<0.50**	**<0.0025**	**<0.0025**	**0.044**	**0.029**	**NA**
MW-16	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
	12/12/06	**<0.25**	**<0.25**	**<0.50**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**NA**
MW-18	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
	12/12/06	**0.28**	**<0.25**	**<0.50**	**0.023**	**0.0018**	**0.0019**	**0.0060**	**NA**

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)
MW-19	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
	12/13/06	**8.0**	**1.4**	**<0.50**	**0.016**	**0.052**	**0.30**	**1.4**	**NA**
MW-20	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
	12/13/06	**<0.25**	**<0.25**	**<0.50**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**NA**
MW-21	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
	12/13/06	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**

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)
MW-22	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[a]	<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
	12/12/06	**<0.25**	**1.4**	**<0.50**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**NA**
MW-23	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
	12/12/06	**8.1**	**<0.25**	**<0.50**	**1.8**	**0.020**	**0.11**	**0.16**	**<0.0050***
MW-24	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
	12/12/06	**20**	**1.1**	**<0.50**	**1.5**	**0.037**	**0.69**	**3.2**	**0.0078***
MW-25	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*
	5/12/014	<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*[a]
	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*[a]
	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*
	12/12/06	**<0.25**	**0.86**	**<0.50**	**0.0052**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0050***

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)
A-5	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
	12/12/06	**0.70**	**0.53**	**<0.50**	**0.079**	**0.0028**	**<0.001**	**0.0025**	**NA**
A-8	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
	12/12/06	**0.27**	**0.87**	**<0.50**	**<0.001**	**0.0011**	**<0.001**	**0.0015**	**NA**
A-10	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
	12/12/06	**<0.25**	**0.98**	**<0.50**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**NA**

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)
A-14	12/20/00	<0.05	<0.25	<0.5	<0.001	<0.001	<0.001	<0.003	0.65
A-14R	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*
	12/12/06	**<0.25**	**<0.25**	**<0.50**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0050***
A-21	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*
	12/12/06	**0.85**	**<0.25**	**<0.50**	**0.0071**	**<0.0005**	**0.0021**	**0.0014**	**<0.0050***
A-23R	02/14/02	0.26	2.1	<0.5	0.06	0.001	0.0099	0.0072	0.72*[a]
	05/20/02	0.74	6.9	<0.5	0.15	<0.001	0.088	0.0067	0.095*[a]
	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*[a]
	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*
	12/12/06	**2.1**	**<0.25**	**<0.50**	**0.520**	**0.0066**	**0.053**	**0.021**	**<0.0050***
Dup-1^	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*
	12/12/06	**2.2**	**<0.25**	**<0.50**	**0.520**	**0.0076**	**0.061**	**0.024**	**0.0077***

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)
A-27	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
	12/12/06	**3.7**	**0.90**	**<0.50**	**0.110**	**0.0096**	**0.10**	**0.12**	**NA**
A-28R	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*
	12/12/06	**4.0**	**0.57**	**<0.50**	**0.30**	**0.0095**	**0.027**	**0.028**	**<0.0050***
SH-02	12/20/00	0.078	<0.25	<0.5	0.001	<0.001	<0.001	<0.003	0.015**
SH-02R	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*
	12/13/06	**<0.25**	**0.49**	**<0.50**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0050***

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)
SH-05	12/20/00	<0.05	1.0	<0.5	<0.001	<0.001	<0.003	<0.001	0.017**
SH-05R	05/21/02	0.71	11	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	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*
	12/13/06	**<0.50**	**1.9**	**<0.50**	**<0.0025**	**<0.0025**	**<0.0025**	**<0.0025**	**<0.0050***
MW-07R	02/13/02	<0.25	1.2	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.035*
	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
	12/13/06	**<0.25**	**<0.25**	**<0.50**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0050***

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.
*[a] = Also tested for Dissolved Lead (EPA-200.8), results are at or above detection limit of 0.0050 ppm.
** = Also tested for Dissolved Lead (EPA-7421), results are below detection limit of 0.004 ppm.
[a] = 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 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.

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

	Indicator Hazardous Substances, concentration in mg/L							
Well ID	TPH-G	Benzene	Ethylbenzene	Toluene	TPH-D	TPH-O	Total Lead	Dissolved Lead
Cleanup Criteria	**1.0**	**0.071**	**29.0**	**200.0**	**10**	**10**	**0.0058**	**--**
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 <0.0058 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 0n 12-06	ND
MW-6	ND - 1.1, <1 since 03-06	ND - 0.19, <0.071since 09-01	ND - 0.0050	ND - 0.0070	ND - 7.3	ND	ND - 0.052 <0.0058 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

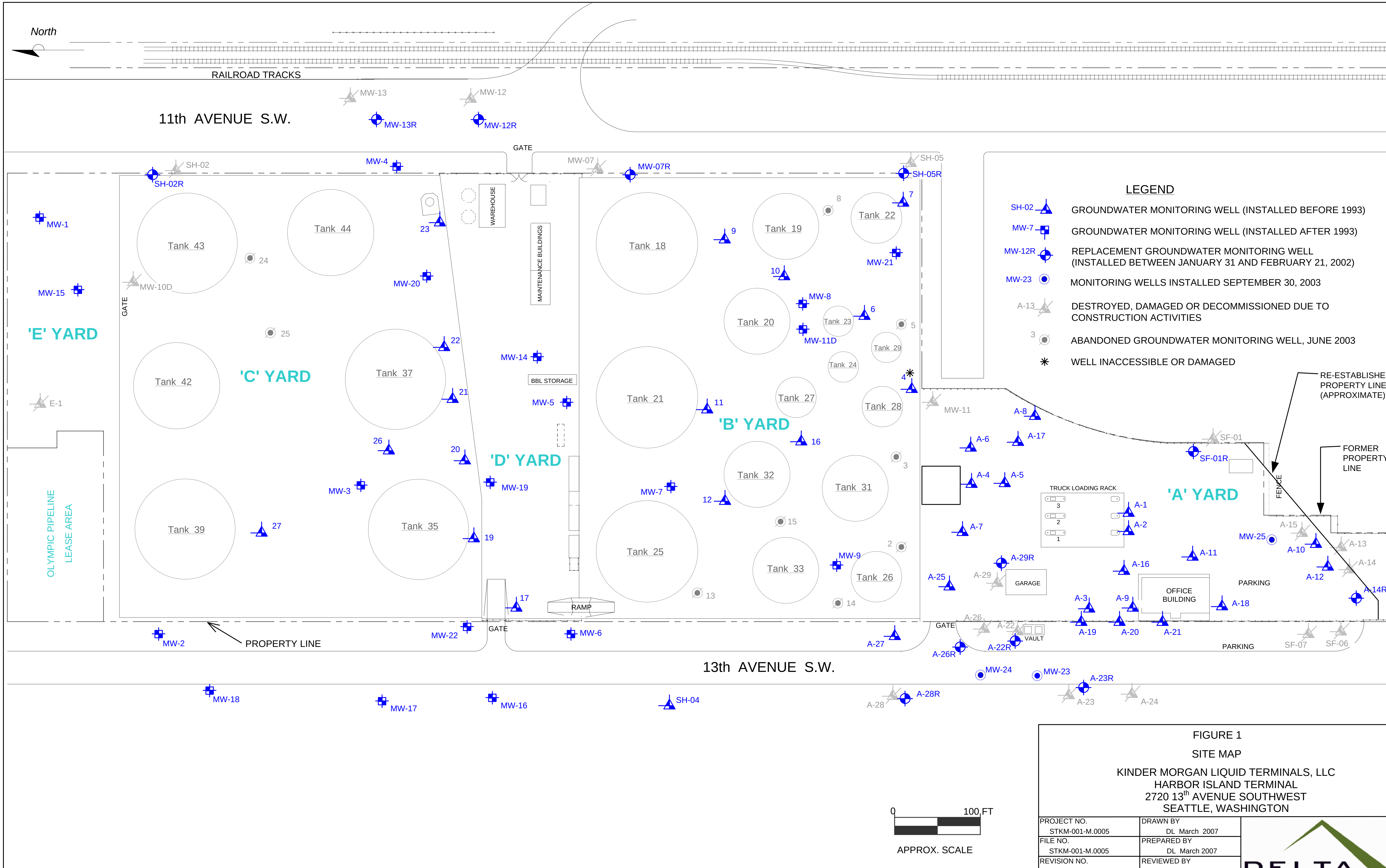
	Indicator Hazardous Substances				Natural Attenuation Parameters				
Well ID	TPH-G/ BTEX	TPH-D/TPH-O	Total Lead	Dissolved Lead	Nitrate (NO3)	Ferrous Iron	Methane	Sulfate (SO4)	Sulfide (H2S)
A-5	Quarterly	Discontinue							
A-8	Annual	Annual							
A-10	Annual	Annual			Discontinue	Discontinue	Discontinue	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

	Indicator Hazardous Substances				Natural Attenuation Parameters				
Well ID	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
Annual Total	74	22	20	2	12	12	12	12	12


North
RAILROAD TRACKS
11th AVENUE S.W.
13th AVENUE S.W.
GATE
'A' YARD
'B' YARD
'C' YARD
'D' YARD
'E' YARD
OLYMPIC PIPELINE LEASE AREA
PROPERTY LINE
RE-ESTABLISHED PROPERTY LINE (APPROXIMATE)
FORMER PROPERTY LINE
FENCE
WAREHOUSE
MAINTENANCE BUILDINGS
BBL STORAGE
RAMP
TRUCK LOADING RACK
GARAGE
OFFICE BUILDING
VAULT
PARKING
Tank 43
Tank 44
Tank 42
Tank 37
Tank 39
Tank 35
Tank 18
Tank 19
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Tank 23
Tank 29
Tank 24
Tank 21
Tank 27
Tank 28
Tank 32
Tank 31
Tank 25
Tank 33
Tank 26
MW-13
MW-12
MW-13R
MW-12R
SH-02
SH-02R
MW-4
MW-07
MW-07R
SH-05
SH-05R
MW-1
MW-15
MW-10D
MW-20
MW-14
MW-5
MW-3
MW-19
MW-7
MW-8
MW-11D
MW-21
MW-9
MW-11
MW-2
MW-22
MW-6
MW-18
MW-17
MW-16
SH-04
MW-24
MW-23
MW-25
E-1
A-1
A-2
A-3
A-4
A-5
A-6
A-7
A-8
A-9
A-10
A-11
A-12
A-13
A-14
A-14R
A-15
A-16
A-17
A-18
A-19
A-20
A-21
A-22
A-22R
A-23
A-23R
A-24
A-25
A-26
A-26R
A-27
A-28
A-28R
A-29
A-29R
SF-01
SF-01R
SF-06
SF-07
LEGEND
GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
REPLACEMENT GROUNDWATER MONITORING WELL (INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 21, 2002)
MONITORING WELLS INSTALLED SEPTEMBER 30, 2003
DESTROYED, DAMAGED OR DECOMMISSIONED DUE TO CONSTRUCTION ACTIVITIES
ABANDONED GROUNDWATER MONITORING WELL, JUNE 2003
WELL INACCESSIBLE OR DAMAGED
0
100 FT
APPROX. SCALE

FIGURE 1

SITE MAP

KINDER MORGAN LIQUID TERMINALS, LLC
HARBOR ISLAND TERMINAL
2720 13th 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

DELTA

September 4, 2008

Mr. Roger Nye
Washington State Department of Ecology
Northwest Regional Office
3190 160th 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

DELTA

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.

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PHONE 425.882.3528 / 800.477.7411 FAX 425.869.1892 WWW.DELTAENV.COM

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 that 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°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

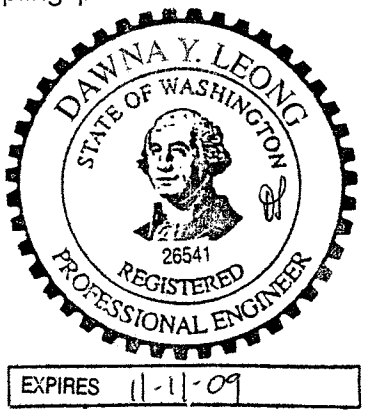
Following purging, samples will be collected for laboratory analyses. Samples will be pumped directly into laboratory-supplied sample containers, and each sample bottle will be labeled with the sample identification number, the sample date, the facility name, and the name of the technician who performed 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,

Roger K. Nye

Roger K. Nye
Project Coordinator

cc: Ward Crell, Dawna Leong: Delta Environmental Consultants

ARCADIS

Site ID: **KMLT - Harbor Island** Project #: **WA000804. 2013**

Site Address: **2720 13th Ave SW, Seattle, WA** Date: 4/8/13

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thickness	DTW	TD	Notes
A-4		– /No	–	0.0	6.83	NM	0.3 ppm VOC
A-5		– /No	–	0.0	7.56	NM	0.8 ppm VOC
A-6		– /No	–	0.0	6.46	NM	1.9 ppm VOC
A-8		– /Yes	–	0.0	7.67	NM	24.9 ppm VOC 100 LEL
A-10		– /No	–	0.0	6.61	NM	0.0 ppm VOC
A-11		– /No	–	0.0	7.42	NM	0.0 ppm VOC
A-12		– /No	–	0.0	6.28	NM	0.0 ppm VOC
A-14R		– /No	–	0.0	7.34	NM	0.0 ppm VOC
A-16		– /Yes	–	0.0	7.56	NM	202 ppm VOC LEL 12
A-18		– /No	–	0.0	7.05	NM	0.0 ppm VOC
A-19		– /No	–	0.0	7.68	NM	0.0 ppm VOC
A-20		– /No	–	0.0	6.96	NM	0.0 ppm VOC
A-21		– /No	–	0.0	7.23	NM	1.1 ppm VOC
A-22R		– /Yes	–	0.0	7.31	NM	58.1 ppm VOC 5 LEL
A-23R		– /No	–	0.0	8.63	NM	0.3 ppm VOC
A-25		– /No	–	0.0	7.08	NM	18.9 ppm VOC 20 LEL
A-26R		– /Yes	–	0.0	7.34	NM	53.7 ppm VOC 17 LEL
A-27		– /Yes	–	0.0	10.24	NM	279 ppm VOC

ARCADIS

Site ID: **KMLT - Harbor Island** Project #: **WA000804.** 2013

Site Address: **2720 13th Ave SW, Seattle, WA** Date: 4/8/13

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thickness	DTW	TD	Notes
A-28R		– / Yes	–	0.0	7.67	NM	667 ppm PID LEL 19
12		– / No	–	0.0	0.24	NM	1.1 ppm PID
MW-07R		– / No	–	0.0	5.49	NM	0.0 ppm PID
MW-1		– / No	–	0.0	5.12	NM	0.0 ppm PID
MW-2		– / No	–	0.0	6.36	NM	0.0 ppm PID
MW-3		– / No	–	0.0	2.04	NM	0.0 ppm PID
MW-4		– / No	–	0.0	5.74	NM	0.3 ppm PID
MW-5		– / No	–	0.0	1.69	NM	0.0 ppm PID
MW-6		– / No	–	0.0	6.22	NM	0.0 ppm PID
MW-7		– / No	–	0.0	1.88	NM	0.0 ppm PID
MW-8		– / No	–	0.0	2.41	NM	0.0 ppm PID
MW-9		– / No	–	0.0	2.02	NM	0.0 ppm VOC LEL 72
MW-12R		– / No	–	0.0	6.88	NM	0.7 ppm VOC LEL 46
MW-13R	Abandoned			~~0.0~~			
MW-14		– / No	–	0.0	2.18	NM	0.0 ppm VOC
MW-16		– / No	–	0.0	6.28	NM	0.0 ppm VOC
MW-18		– / No	–	0.0	6.39	NM	0.0 ppm VOC
MW-19		– / Yes	–	0.0	1.82	NM	9.3 ppm VOC LEL 100

ARCADIS

Site ID: **KMLT - Harbor Island** Project #: **WA000804.2013**

Site Address: **2720 13th Ave SW, Seattle, WA** Date: 4/8/13

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thickness	DTW	TD	Notes
MW-20		– / No	–	0.0	2.23	NM	0.0 ppm PID
MW-21		– / No	–	0.0	1.99	NM	0.0 ppm VOC
MW-22		– / No	–	0.0	7.29	NM	0.7 ppm PID
MW-23		– / Yes	–	0.0	7.15	NM	212 ppm VOC
MW-24		– / Yes	–	0.0	7.27	NM	364 ppm VOC LEL 12
SH-02R		– / No	–	0.0	4.77	NM	0.0 ppm PID
SH-05R		– / No	–	0.0	5.59	NM	
TMW-B1		– / Yes	–	0.0	7.03	NM	517 ppm PID LEL 5

ARCADIS Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.2013 Well ID A-5 Date 4/10/13

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Sunny, 56F

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4 | Well Material X PVC / SS

Static Water Level (ft-btoc) 7.53 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 1.5

TOC Elevatio NA | Pump Intake (ft-btoc) 12 | Purge Method: Low-flow / Centrifugal / Submersible / Other | Sample Method Low-flow

Pump On/Off 15:35/16:00 | Volumes Purged ~0.3 gallons

Sample Time: Label 15:55 | Start 15:50 | End 16:00 | Replicate/ Code No. —

Sampled by KH/EE

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	Appearance Odor
15:38	3	150	7.53	0	7.15	1.00	17.0	2.91	15.5	-141	clear	none
15:41	6	1	7.62	~0.1	7.04	1.00	13.1	0.00	15.0	-151		
15:44	9	1	7.62	~0.2	7.04	1.00	12.8	0.00	14.9	-153		
15:47	12	1	7.64	~0.3	7.03	0.99	12.4	0.00	14.8	-155		

Constituents Sampled	Container	Number	Preservative

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: A 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

Page ___ of ___

Project No. WA000804.2013 Well ID A-8 Date 4-10-2013

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Sunny

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 7.67 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 21.1

TOC Elevatio NA | Pump Intake (ft-btoc) 12 | Purge Method: Low-flow ___ Centrifugal ___ Submersible ___ Other | Sample Method Low-flow

Pump On/Off 15:05/ | Volumes Purged ~0.3 gallons

Sample Time: Label 15:30 | Start 15:20 | End 15:30 | Replicate/ Code No. —

Sampled by KH/EE

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	Appearance Odor
15:08	3	150	7.67	0	7.19	0.808	24.1	1.65	15.3	-149	clear	slight
15:11	6	1	7.69	~0.1	7.06	0.803	16.8	0.00	15.1	-151	"	"
15:14	9	1	7.69	~0.2	7.01	0.789	16.8	0.00	15.0	-154	"	"
15:17	12	1	7.70	~0.3	7.00	0.785	11.8	0.00	15.0	-163	"	"

Constituents Sampled	Container	Number	Preservative

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: A. Yard

Condition of Well: Basic

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. WA000804.2013 Well ID A-10 Date 4-10-2013

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Sunny

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4 | Well Material X PVC / SS

Static Water Level (ft-btoc) 6.62 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.7

TOC Elevatio NA | Pump Intake (ft-btoc) 10 | Purge Method: Low-flow / Centrifugal / Submersible / Other peristaltic | Sample Method Low-flow

Pump On/Off 16:05 / 16:30 | Volumes Purged ~0.3 gallons

Sample Time: Label 16:20 | Start 16:20 | End 16:30 | Replicate/ Code No. —

Sampled by KH/EE RL

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	Appearance Odor
16:08	3	150	6.62	0	6.73	0.247	106.0	1.86	15.4	82	clear	none
16:11	6	1	6.65	~0.1	6.52	0.256	86.2	0.46	15.4	83	"	"
16:14	9	1	6.65	~0.2	6.44	0.324	80.4	0.00	15.4	68	"	"
16:17	12	1	6.64	~0.3	6.55	0.435	74.4	0.00	15.5	54	"	"

Constituents Sampled	Container	Number	Preservative

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: A-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

Page 1 of 1

Project No. WA000804.2013 | Well ID A-14R | Date 4/10/13

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 | Weather partly sunny, 55°F

Measuring Pt. Description: TOC | Screen Setting (ft-bmp): — | Casing Diameter (in.): 2 | Well Material: X PVC / SS

Static Water Level (ft-btoc): 7.36 | Total Depth (ft-btoc): NM | Water Column/ Gallons in Well: NC | Initial PID Reading (ppm): 1.5

TOC Elevatio: NA | Pump Intake (ft-btoc): 10.5 | Purge Method: Low-flow / Centrifugal / Submersible / Other peristaltic | Sample Method: Low-flow

Pump On/Off: 1435 | Volumes Purged: <1

Sample Time: Label 1500 | Start 1435 | End 1506 | Replicate/ Code No.: NA | Sampled by: KH/EE

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	Appearance Odor
1437	2	200	7.36	0.2	7.12	1.72	8.1	3.35	15.4	-44	clear	NO
1440	5	200	7.38	0.3	6.92	1.74	6.3	0.00	15.4	-65		
1443	8	200	7.38	0.4	6.89	1.76	4.7	0.00	15.3	-69		
1446	11	200	7.38	0.5	6.86	1.76	3.3	0.00	15.3	-72		

Constituents Sampled	Container	Number	Preservative
GRO	VOA	1	HCl
DRO	VOA	2	↓
BTEX	VOA	3	↓

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.653 | 6" = 1.47

Well Information

Well Location: SW corner of 'A' Yard | 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

Page 1 of 1

Project No. WA000804.2013 Well ID A-21 Date 4-10-2013

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Cloudy

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4 | Well Material X PVC / SS

Static Water Level (ft-btoc) 7.33 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.3

TOC Elevatior NA | Pump Intake (ft-btoc) 12 | Purge Method: Low-flow / Centrifugal / Submersible / Other peristaltic | Sample Method Low-flow

Pump On/Off 14:00 / 14:25 | Volumes Purged ~0.3 gallons

Sample Time: Label 14:15 | Replicate/ — | Sampled by KH/EE

Start 14:12 | Code No.

End 14:25

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	Appearance: Odor
14:03	3	150	7.33	0	7.00	19.7	17.4	1.42	12.7	-44	clear	None
14:06	6	1	7.34	~0.1	7.03	19.5	15.3	0.00	12.1	-48	1	1
14:09	9	1	7.34	~0.2	7.00	19.5	10.8	0.00	12.1	-50	1	1
14:12	12	1	7.35	~0.3	6.96	19.9	8.5	0.00	11.9	-54	1	1

Constituents Sampled	Container	Number	Preservative

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: W side of KCMEP office

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. WA000804.2013 Well ID A-23R Date 4/8/13

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Sunny

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 4.63 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.3

TOC Elevatio NA | Pump Intake (ft-btoc) ___ | Purge Method: Low-flow / Centrifugal / Submersible / Other | Sample Method Low-flow

Pump On/Off ~~3153~~ 1553 / ~~cc~~ | Volumes Purged ___

Sample Time: Label 1615 | Replicate/ — | Sampled by KH/EE

Start 1615 | Code No. ___

End 1620

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	Appearance Odor
1556 ~~BAD cc~~	3	200	~~3.66 cc~~ 3.63	<0.1	6.24	11.9	159	2.42	11.41	-85	Clear	None
1559	6	200	8.63	0.15	6.34	12.1	116	1.10	11.15	-94	"	"
1602	9	200	8.64	0.2	6.43	12.2	93.3	0.32	11.06	-102	"	"
1605	12	200	8.64	0.25	6.53	12.3	71.4	0.29	11.05	-105	"	"
1608	15	200	8.64	0.30	6.55	12.4	52.8	0.21	11.04	-106	"	"

Constituents Sampled	Container	Number	Preservative

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: EM Yard at Port Facility

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

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Project No. WA000804.2013 Well ID A-27 Date 4-10-2013

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Overcast

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 10.21 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.0

TOC Elevatior NA | Pump Intake (ft-btoc) 15 | Purge Method: Low-flow ___ Centrifugal ___ Submersible ___ Other | Sample Method Low-flow

Pump On/Off 11:30/12:00 | Volumes Purged ~0.3 gallons

Sample Time: Label 12:00 | Replicate/ Code No. — | Sampled by KH/EE

Start 11:35

End 12:00

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	Appearance Odor
11:35	3	150	10.21	0	6.41	0.255	76.3	2.23	12.7	-93	clear	slight
11:38	6	1	10.31	~0.1	6.34	0.257	60.0	1.33	12.5	-96	↓	↓
11:41	9	1	10.33	~0.2	6.32	0.256	53.6	0.23	12.5	-99		
11:44	12	1	10.33	~0.3	6.30	0.258	46.4	0.00	12.5	-100		

Constituents Sampled	Container	Number	Preservative

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

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. WA000804.2013 Well ID A-28R Date 4-10-2013

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Overcast

Measuring Pt. Description TOC | Screen Setting (ft-bmp) | Casing Diameter (in.) 2 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 7.65 | Total Depth (ft-btoc) | Water Column/ Gallons in Well | Initial PID Reading (ppm) 375

TOC Elevatio NA | Pump Intake (ft-btoc) 10 | Purge Method: Low-flow / Centrifugal / Submersible / Other | Sample Method Low-flow

Pump On/Off 1056/ | Volumes Purged

Sample Time: Label | Start | End | Replicate/ Code No.

Sampled by KH/EE

Stabilized Range:		~.5 ft		0.1	3%	10%		3%		Appearance	
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)	Color	Odor
1100		200	7.65	0.2	6.17	0.431	4.8	1.73	11.6	-106	clear	yes
1103		500	7.77		6.15	0.440	7.5	0.57	11.7	-121		
1106		200	7.68		6.30	0.433	19.3	0.43	11.9	-104		
1109		200	7.66		6.32	0.456	53.5	1.38	12.4	-105		
1112		200	7.66		6.34	0.452	25.9	1.19	12.4	-104		
1115		200	7.66		6.35	0.457	26.9	1.48	12.5	-105		

Constituents Sampled	Container	Number	Preservative

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: | Well Locked at Arrival: Yes / No

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

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

ARCADIS Groundwater Sampling Form

Page ___ of ___

Project No. WA000804.2013 | Well ID MW-07R | Date 4/9/13

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 | Weather Overcast

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 5.50 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.0

TOC Elevatio NA | Pump Intake (ft-btoc) 10 | Purge Method: Low-flow ___ Centrifugal ___ Submersible ___ Other | Sample Method Low-flow

Pump On/Off 10:00/10:25 | Volumes Purged ~0.3 gallons

Sample Time: Label 10:20 | Start 10:15 | End 10:25 | Replicate/ Code No. —

Sampled by KH/EE

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	Appearance Odor
10:03	3	150	5.50	0	5.83	131.4	6.49	1.56	12.7	127.9	clear	none
10:06	6	"	5.52	~0.1	5.69	86.7	4.93	1.34	12.9	147.7	"	"
10:09	9	"	5.54	~0.2	5.63	77.1	2.37	1.37	13.0	155.6	"	"
10:12	12	"	5.57	~0.3	5.62	75.0	1.21	1.31	12.9	159.6	"	"

Constituents Sampled	Container	Number	Preservative

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: 14th 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

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Project No. WA000804.2013 Well ID MW-1 Date 4-9-2013

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Cloudy

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 5.12 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.0

TOC Elevatio NA | Pump Intake (ft-btoc) 10 | Purge Method: Low-flow ___ Centrifugal ___ Submersible ___ Other | Sample Method Low-flow

Pump On/Off 12:19/12:45 | Volumes Purged ~0.3 gallons

Sample Time: Label 12:35 | Start 12:35 | End 12:45 | Replicate/ Code No. —

Sampled by KH/EE

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	Appearance Odor
12:22	0	150	5.12	0	6.67	282.4	18.3	1.52	11.8	134.7	clear	none
12:25	6	1	5.13	~0.1	6.27	286.2	11.57	0.76	11.6	157.4	"	"
12:28	9	1	5.14	~0.2	6.28	287.1	3.14	0.64	11.6	156.2	"	"
12:31	12	1	5.15	~0.3	6.28	287.0	1.62	0.61	11.5	153.4	"	"

Constituents Sampled	Container	Number	Preservative

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: E. Yard

Condition of Well: Poor

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival: Yes / (No)

Well Locked at Departure: Yes / (No)

Key Number To Well: N/A

ARCADIS Groundwater Sampling Form

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Project No. WA000804.2013 Well ID MW-2 Date 4-9-2013

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Cloudy

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4 | Well Material X PVC / SS

Static Water Level (ft-btoc) 6.40 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.0

TOC Elevatio NA | Pump Intake (ft-btoc) 10 | Purge Method: Low-flow / Centrifugal / Submersible / Other | Sample Method Low-flow

Pump On/Off 13:50/14:15 | Volumes Purged ~0.3 gallons

Sample Time: Label 14:15 | Replicate/ Code No. — | Sampled by KH/EE

Start 14:05

End 14:15

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	Appearance Odor
13:53	3	150	6.40	0	6.46	52.4	9.01	1.60	10.5	155.4	clear	none
13:56	6	"		~0.1	6.30	52.2	7.38	1.36	10.6	174.9	"	"
13:59	9	"		~0.2	6.33	51.9	7.22	1.22	10.7	176.0	"	"
14:02	12	"		~0.3	6.37	51.8	7.20	1.17	10.7	174.1	"	"

Constituents Sampled	Container	Number	Preservative

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

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

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Project No. WA000804.2013 Well ID MW-3 Date 04/09/13

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Cloudy, 50s

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4" | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 7.19 | Total Depth (ft-btoc) — | Water Column/ Gallons in Well / | Initial PID Reading (ppm) 0.0

TOC Elevatio NA | Pump Intake (ft-btoc) ~10' | Purge Method: Low-flow, Centrifugal, Submersible, Other | Sample Method Low-flow

Pump On/Off 1350 / 1430 | Volumes Purged 0.3 gal

Sample Time: Label 1405 Start 1405 End 1415 | Replicate/ Code No. NA | Sampled by KH/EE

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	Appearance Odor	TDS
1353	3	250	7.20	0.1	6.73	0.131	68.2	2.10	11.14	~~0.09~~ 57	Clear	None	0.09
1356	6	250	7.20	0.15	6.75	0.131	90.8	1.43	11.01	54	"	"	0.08
1359	9	250	7.21	0.2	6.77	0.131	76.6	1.03	10.92	53	"	"	0.08
1402	12	250	7.21	0.25	6.77	0.131	57.5	0.94	10.90	52	"	"	0.09

Constituents Sampled	Container	Number	Preservative
Refer to COC			
GRO			
DRO			
HO			
BTEX			
Total Lead			

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: Good 4 C Yard

Condition of Well:

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. WA000804.2013 Well ID MW-4 Date 4/9/2013

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Cloudy

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 5.79 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.0

TOC Elevatio NA | Pump Intake (ft-btoc) 10 | Purge Method: Low-flow, Centrifugal, Submersible, Other | Sample Method Low-flow

Pump On/Off 11:12 / 11:35 | Volumes Purged ~0.3 gallons

Sample Time: Label 11:30 | Start 11:25 | End 11:35 | Replicate/ Code No. —

Sampled by KH/EE

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	Appearance Odor
11:15	3	150	5.79	0	6.78	207.4	6.27	0.51	15.2	141.2	clear	none
11:18	6	"	5.80	~0.1	6.79	207.3	6.16	0.27	15.1	131.4	"	"
11:21	9	"	5.82	~0.2	6.73	208.8	6.04	0.19	15.1	129.2	"	"
11:24	12	"	5.83	~0.3	6.67	208.1	5.97	0.19	15.1	129.7	"	"

Constituents Sampled	Container	Number	Preservative

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

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

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Project No. WA000804.2013 | Well ID MW-5 | Date 04/04/13

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 | Weather Cloudy, 50s

Measuring Pt. Description: TOC | Screen Setting (ft-bmp): | Casing Diameter (in.): 4" | Well Material: X PVC / SS

Static Water Level (ft-btoc): 1.88 | Total Depth (ft-btoc): NM | Water Column/ Gallons in Well: / | Initial PID Reading (ppm): 0.0

TOC Elevatior NA | Pump Intake (ft-btoc): 6.0' | Purge Method: Low-flow; Centrifugal; Submersible; Other | Sample Method: Low-flow

Pump On/Off 1050/ | Volumes Purged: 0.3 gal.

Sample Time: Label 1110 | Start 1110 | End 1120 | Replicate/ Code No. NA | Sampled by KH/EE

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	Appearance Odor	
1053	3	200	1.95	0.1	6.97	0.040	6.8	7.98	10.47	184	Clear	None	IDS 0.03
1056	6	200	1.95	0.15	6.83	0.039	5.8	7.41	10.36	186	"	"	0.03
1059	9	200	1.96	0.2	6.69	0.036	8.3	7.12	10.26	186	"	"	0.02
1102	12	200	1.96	0.25	6.65	0.036	5.6	6.99	10.23	187	"	"	0.02

Constituents Sampled	Container	Number	Preservative
Refer to COC.			
GRO/BTEX			
DRO			
HO			
Total Lead			

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: D Yard | 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. WA000804.2013 Well ID MW-6 Date 4-9-2013

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Cloudy

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 6.22 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.5

TOC Elevatio NA | Pump Intake (ft-btoc) 10 | Purge Method: Low-flow ___ Centrifugal ___ Submersible ___ Other | Sample Method Low-flow

Pump On/Off 16:30 / 17:00 | Volumes Purged ~0.3 gallons | J

Sample Time: Label 17:00 | Start 16:45 | End 17:00 | Replicate/ Code No. —

Sampled by KH/EE

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	Appearance Odor
16:33	3	150	6.22	0	6.58	266.9	2.21	1.97	11.7	134.8	clear	none
16:36	6	"	6.21	~0.1	6.58	266.5	2.21	1.25	11.7	152.1	"	"
16:39	9	"	6.22	~0.2	6.61	267.1	2.21	1.21	11.7	149.4	"	"
16:42	12	"	6.22	~0.3	6.62	267.7	2.09	1.20	11.7	147.4	"	"

Constituents Sampled	Container	Number	Preservative

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 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

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Project No. WA000804.2013 Well ID MW-7 Date 04/09/13

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Cloudy, 50s

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4" | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 1.94' | Total Depth (ft-btoc) — | Water Column/ Gallons in Well / | Initial PID Reading (ppm) 0.3

TOC Elevatior NA | Pump Intake (ft-btoc) 6' | Purge Method: Low-flow ___ Centrifugal ___ Submersible ___ Other | Sample Method Low-flow

Pump On/Off 1545 | Volumes Purged 0.3 gal.

Sample Time: Label 1600 Start 1600 End 1610 | Replicate/ Code No. MW BD-1 → GRO + BTEX Only | Sampled by KH/EE

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	Appearance Odor
1543	3	300	1.96	0.1	6.59	0.075	11.0	0.52	12.11	-100	Clear	Slight
1551	6	300	1.97	0.2	6.59	0.075	9.6	0.41	12.60	-101	"	"
1554	9	300	1.97	0.25	6.59	0.075	9.3	0.33	12.07	-103	"	"
1557	12	300	1.97	0.3	6.60	0.075	14.6	0.26	12.09	-105	"	"

TDS 0.85 0.05 0.05 0.05

Constituents Sampled	Container	Number	Preservative
GRO	Refer to COC		
~~DRO~~ cc			
~~TPH~~ cc			
BTEX			
Total Lead			
D.ss. lead			
MNA: Sulfate/Sulfides,			
Nitrate, Methane,			
Ferrous Iron			

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: 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: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.2013 Well ID MW-6

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

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Date 4-10-13

Weather Rainy

Measuring Pt. Description TOC

Screen Setting (ft-bmp) —

Casing Diameter (in.) 4"

Well Material X PVC ___ SS

Static Water Level (ft-btoc) 2.58

Total Depth (ft-btoc) NM

Water Column/ Gallons in Well NM

TOC Elevatio NA

Pump Intake (ft-btoc) 6

Purge Method: Low-flow Centrifugal Submersible Other

Initial PID Reading (ppm) 0.0

Pump On/Off 9:05 / 9:25

Volumes Purged ~0.3 gallons

Sample Method Low-flow

Sample Time: Label 9:10 Start 9:17 End 9:28

Replicate/ Code No. —

Sampled by KH/EE

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	Appearance Odor
9:08	0	150	2.90	0	5.70	0.049	24.6	5.89	12.9	182	clear	none
9:11	3	1	3.02	~0.1	5.71	0.048	25.0	4.16	12.8	185		
9:14	9	1	3.06	~0.2	5.70	0.047	52.3	3.41	12.7	182		
9:17	12	1	3.10	~0.3	5.70	0.046	29.7	4.32	12.7	183		

Constituents Sampled	Container	Number	Preservative

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: Good

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

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Project No. WA000804.2013 Well ID MW-9 Date 4-10-2013

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

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 2.03 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.3

TOC Elevatio NA | Pump Intake (ft-btoc) 8 | Purge Method: Low-flow | Sample Method Low-flow

Pump On/Off 8:15/8145 | Volumes Purged ~0.3 gallons | Centrifugal ___ Submersible ___ Other ___

Sample Time: Label 8:40 | Replicate/ Code No. — | Start 8:15 | End 8145 | Sampled by KH/EE

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	Appearance Odor
8:28	3	150	2.03	0	5.27	0.155	2.04	4.01	10.7	175	clear	none
8:31	6		2.06	~0.1	5.50	0.147	17.4	0.00	10.5	160	"	"
8:34	9		2.07	~0.2	5.62	0.133	17.8	0.00	10.5	152	"	"
8:37	10		2.09	~0.3	5.74	0.123	14.6	0.00	10.4	136	"	"

Constituents Sampled	Container	Number	Preservative

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: 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: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.2013 Well ID MW-12R Page ___ of ___

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Date 4/9/2013

Weather Cloudy

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 6.86 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.0

TOC Elevatior NA | Pump Intake (ft-btoc) 10 | Purge Method: Low-flow / Centrifugal / Submersible / Other | Sample Method Low-flow

Pump On/Off 10:35/10:55 | Volumes Purged ~0.3 gallons

Sample Time: Label 10:55 | Start 10:47 | End 10:55 | Replicate/ Code No. —

Sampled by KH/EE

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	Appearance Odor
10:38	3	150	6.86	0	5.96	442.5	2.83	0.77	11.5	158.4	clear	Mod
10:41	6	"	6.87	~0.1	6.17	447.2	2.11	0.22	11.6	152.8	"	"
10:44	9	"	6.87	~0.2	6.21	449.2	1.39	0.21	11.6	149.3	"	"
10:47	12	"	~~6.85~~ 6.89	~0.3	6.25	448.5	1.27	0.21	11.6	147.6	"	"

Constituents Sampled	Container	Number	Preservative

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

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

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Project No. WA000804.2013 Well ID MW-14 Date 04/09/13

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Cloudy, 50s

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4" | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 2.33 | Total Depth (ft-btoc) — | Water Column/ Gallons in Well / | Initial PID Reading (ppm) 0.0

TOC Elevatio NA | Pump Intake (ft-btoc) 6.5' | Purge Method: Low-flow, Centrifugal, Submersible, Other | Sample Method Low-flow

Pump On/Off 0945/ | Volumes Purged low-flow (0.3 gal.) | Sample Time: Label 1010, Start 1010, End 1010 | Replicate/ Code No. NA | Sampled by KH/EE

Stabilized Range: ~.5 ft | 0.1 | 3% | 10% | 3% | 15?

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	Appearance Odor	TDS
0948	3	200	2.35	0.1	6.41	0.249	19.2	1.42	11.27	~~-18~~	Clear	None	0.16
0951	6	200	2.35	0.15	6.49	0.251	20.9	1.86	11.27	144	"	"	0.15
0954	12	200	2.35	0.2	6.52	0.207	36.1	0.76	11.26	132	"	"	0.14
0957	15	200	2.36	0.25	6.54	0.198	26.3	0.52	11.24	—			—
1000	18	200	2.36	0.3	6.56	0.190	27.9	0.35	11.21	120	"	"	0.12

Constituents Sampled	Container	Number	Preservative

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: 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

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Project No. WA000804.2013 Well ID MW-16 Date 4-9-2013

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Cloudy

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 6.28 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.0

TOC Elevatio NA | Pump Intake (ft-btoc) 10 | Purge Method: Low-flow ___ Centrifugal ___ Submersible ___ Other | Sample Method Low-flow

Pump On/Off 15:40 / 16:05 | Volumes Purged ~0.3 gallons

Sample Time: Label 16:00 Start 15:55 End 16:05 | Replicate/ Code No. —

Sampled by KH/EE

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
15:43	3	150	6.28	0	6.45	428.0	13.9	1.80	12.7	150.2	clear	none
15:46	6	1	6.31	~0.1	6.47	429.5	6.03	1.49	12.6	145.5	1	1
15:49	9	1	6.32	~0.2	6.49	430.8	5.89	1.42	12.6	143.9	1	1
15:52	12	1	6.34	~0.3	6.49	431.9	5.72	1.40	12.5	143.1	1	1

Constituents Sampled	Container	Number	Preservative

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

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Project No. WA000804.2013 Well ID MW-18 Date 4-9-2013

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Cloudy

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 6.39 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.0

TOC Elevatio NA | Pump Intake (ft-btoc) 12 | Purge Method: Low-flow ___ Centrifugal ___ Submersible ___ Other | Sample Method Low-flow

Pump On/Off 14:25 / 14:45 | Volumes Purged ~0.3 gallons

Sample Time: Label 14:40 | Start 14:35 | End 14:45 | Replicate/ Code No. —

Sampled by KH/EE

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	Appearance Odor
14:26	3	150	6.39	0	6.62	220.7	46.0	0.50	12.1	148.5	clear	none
14:29	6	"	6.42	~0.1	6.64	217.2	7.93	0.41	12.1	148.0	"	"
14:32	9	"	6.43	~0.2	6.69	216.3	11.9	0.34	12.2	147.2	"	"
14:35	12	"	6.43	~0.3	6.72	215.0	11.1	0.34	12.1	146.1	"	"

Constituents Sampled	Container	Number	Preservative

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: 15th 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. WA000804.2013 Well ID MW-19 Date 04/04/13

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Sunny, 50s

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2" | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 1.95 | Total Depth (ft-btoc) — | Water Column/ Gallons in Well / | Initial PID Reading (ppm) 0.0

TOC Elevatio NA | Pump Intake (ft-btoc) 6' | Purge Method: Low-flow ___ Centrifugal ___ Submersible ___ Other | Sample Method Low-flow

Pump On/Off 1155/ | Volumes Purged 0.35 gal

Sample Time: Label 1215 | Start 1215 | End 1225 | Replicate/ Code No. NA | Sampled by KH/EE

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	Appearance Odor	TOC
1158	3	200	1.95	0.1	6.44	0.90	32.1	1.72	12.16	-103	Clear	None	3.06
1201	6	200	1.95	0.15	6.46	0.110	34.7	0.81	12.15	-112	"	"	0.02
1204	9	200	1.95	0.2	6.48	0.206	35.0	0.48	12.13	-114	"	"	0.15
1207	12	200	1.96	0.25	6.49	0.197	36.1	0.10	12.12	-116	"	"	0.11
1210	15	200	1.96	0.3	6.49	0.198	36.6	0.01	12.10	-117	"	"	0.07

Constituents Sampled	Container	Number	Preservative
Refer to COC.			
GRO			
BTEX			
MNA: Nitrate, Sulfate/Sulfide, Ferrous Iron, Methane			

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: 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: NA

ARCADIS Groundwater Sampling Form

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Project No. WA000804.2013 | Well ID MW-20 | Date 04/04/13

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 | Weather Cloudy, 50s

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2" | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 2.43' | Total Depth (ft-btoc) — | Water Column/ Gallons in Well 1 | Initial PID Reading (ppm) 0.0

TOC Elevatio NA | Pump Intake (ft-btoc) 6.5' | Purge Method: Low-flow / Centrifugal / Submersible / Other | Sample Method Low-flow

Pump On/Off 1445 / 1520 | Volumes Purged 0.25 gal. | Sampled by KH/EE

Sample Time: Label 1500 | Start 1300 | End 1510 | Replicate/ Code No. NA

-16↑

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	Appearance Odor
1445	3	250	2.43	<0.1	6.79	0.037	28.9	1.21	11.21	~~0.0~~	Clear	None
1448	6	250	2.43	0.15	6.84	0.087	28.2	0.77	11.21	-164	"	"
1451	9	250	2.43	0.2	6.86	0.087	21.0	0.57	11.22	-166	"	"
1454	12	250	2.43	0.25	6.87	0.088	18.1	0.48	11.21	-168	"	"

TDS: 0.06, 0.06, 0.06, 0.06

Constituents Sampled	Container	Number	Preservative

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: C 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. WA000804.2013 Well ID MW-21 Date 4-10-13

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Rainy

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 2.23 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.0

TOC Elevatior NA | Pump Intake (ft-btoc) 6 | Purge Method: Low-flow ___ Centrifugal ___ Submersible ___ Other | Sample Method Low-flow

Pump On/Off 9:55/10:15 | Volumes Purged ~0.3 gallons

Sample Time: Label 10:10 Start 10:05 End 10:15 | Replicate/ Code No. ___ | Sampled by KH/EE

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
9:55	3	150	2.23	0	5.64	0.043	16.3	3.06	11.3	165	clear	none
9:58	6		2.41	~0.1	5.54	0.041	9.1	0.67	11.3	158	"	"
10:01	9		2.85	~0.2	5.52	0.040	9.2	0.00	11.3	157	"	"
10:04	12		2.48	~0.3	5.49	0.039	8.4	0.00	11.3	157	"	"

Constituents Sampled	Container	Number	Preservative

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: Back 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

Page ___ of ___

Project No. WA000804.2013 Well ID MW-22 Date 4-9-2013

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Cloudy

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 7.29 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.0

TOC Elevatio NA | Pump Intake (ft-btoc) 12 | Purge Method: Low-flow ___ Centrifugal ___ Submersible ___ Other | Sample Method Low-flow

Pump On/Off 15:00 / 15:25 | Volumes Purged ~0.3 gallons

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

Sampled by KH/EE

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
1505	3	150	7.29	0	6.80	152.4	10.0	0.99	10.8	139.5	clear	none
1508	6	"	7.29	~0.1	6.54	148.3	13.3	0.61	10.7	155.0	"	"
1511	9	"	7.29	~0.2	6.42	157.0	13.2	0.45	10.8	162.6	"	"
1514	12	"	7.29	~0.3	6.45	158.4	12.9	0.46	10.7	160.5	"	"

Constituents Sampled	Container	Number	Preservative

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

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. WA000804.2013 Well ID MW-23 Date 4-10-2013

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Sunny

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 7.15 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NL | Initial PID Reading (ppm) 2.7

TOC Elevatio NA | Pump Intake (ft-btoc) 12 | Purge Method: Low-flow, Centrifugal, Submersible, Other | Sample Method Low-flow

Pump On/Off 13:00 / 13:25 | Volumes Purged ~0.3 gallons

Sample Time: Label 13:15 | Start 13:12 | End 13:25 | Replicate/ Code No. —

Sampled by KH/EE

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	Appearance Odor
13:03	3	150	7.15	0	6.51	22.3	12.4	2.23	13.7	-130	clear	slight
13:06	6	1	7.19	~0.1	6.56	22.6	9.4	0.00	13.5	-135	1	1
13:09	9	1	7.20	~0.2	6.58	23.1	6.3	0.00	13.5	-138	1	1
13:12	12	1	7.20	~0.3	6.59	23.1	5.7	0.00	13.5	-139	1	1

Constituents Sampled	Container	Number	Preservative

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 SW

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. WA000804.2013 Well ID MW-24 Date 4/10/13

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather partly sunny

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 7.20 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 270

TOC Elevatio NA | Pump Intake (ft-btoc) 13 | Purge Method: Low-flow / Centrifugal / Submersible / Other | Sample Method Low-flow

Pump On/Off 12:15/12:40 | Volumes Purged ~0.3 gallons

Sample Time: Label 12:30 | Start 12:30 | End 12:40 | Replicate/ Code No. BD-1 | Sampled by KH/EE

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	Appearance: Odor
12:21	3	150	7.20	0	6.41	0.95	17.2	2.60	12.7	-138	clear	strong
12:24	6	"	7.24	~0.1	6.53	0.95	15.7	0.00	12.7	-142	"	"
12:27	9	"	7.29	~0.2	6.55	0.94	12.4	0.00	12.7	-144	"	"
12:30	12	"	7.25	~0.3	6.57	0.94	15.1	0.53	12.7	-147	"	"

Constituents Sampled	Container	Number	Preservative
Collected BD-2 from this well			

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: ___ Well Locked at Arrival: Yes / No

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

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

ARCADIS Groundwater Sampling Form

Page ___ of ___

Project No. WA000804.2013 Well ID MW-25 Date 4/10/13

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather overcast, 50°F

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 4 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 7.05 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 1.1

TOC Elevatio NA | Pump Intake (ft-btoc) 12 | Purge Method: Low-flow / Centrifugal / Submersible / Other peristaltic | Sample Method Low-flow

Pump On/Off 16:27/16:50 | Volumes Purged ~0.3

Sample Time: Label 16:50 | Start 16:46 | End 16:50 | Replicate/ Code No. —

Sampled by KH/EE

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	Appearance Odor
16:30	3	150	7.05	0	6.40	1.87	12.7	0.00	15.0	-43	clear	slight
16:33	6	"	7.08	~0.1	6.41	2.16	10.4	0.03	14.9	-71	"	"
16:36	9	"	7.08	~0.2	6.49	2.65	7.1	0.14	14.9	-80	"	"
16:39	12	"	7.09	~0.3	6.68	3.39	5.1	0.00	14.9	-104	"	"
16:42	15	"	7.09	~0.4	6.75	3.42	4.5	0.00	14.9	-114	"	"
16:45	18	"	7.10	~0.5	6.78	3.48	4.0	0.00	14.9	-117	"	"

Constituents Sampled	Container	Number	Preservative

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: S part of "A" 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: N/A

ARCADIS Groundwater Sampling Form

Page ___ of ___

Project No. WA000804.2013 Well ID SH-02R Date 4/9/2013

Project Name/Locatior 2720 13th Ave SW Seattle, WA 98134 Weather Cloudy

Measuring Pt. Description TOC | Screen Setting (ft-bmp) — | Casing Diameter (in.) 2 | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 4.79 | Total Depth (ft-btoc) NM | Water Column/ Gallons in Well NC | Initial PID Reading (ppm) 0.0

TOC Elevatio NA | Pump Intake (ft-btoc) 10 | Purge Method: Low-flow ___ Centrifugal ___ Submersible ___ Other | Sample Method Low-flow

Pump On/Off 11:46 / 12:10 | Volumes Purged ~0.3 gallons

Sample Time: Label 12:00 Start 12:00 End 12:10 | Replicate/ Code No. —

Sampled by KH/EE

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	Appearance Odor
11:49	3	150	4.79	0	6.75	194.5	9.69	0.46	16.9	130.2	clear	none
11:51	6	"	4.79	~0.1	6.79	191.8	3.57	0.29	17.6	127.7	"	"
11:54	9	"	4.79	~0.2	6.80	197.8	2.89	0.24	17.6	126.7	"	"
11:57	12	"	4.79	~0.3	6.79	200.4	2.46	0.22	17.6	126.7	"	"

Constituents Sampled	Container	Number	Preservative

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 SW

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
Infrastructure · Water · Environment · Buildings

Smith System® Five Keys (Forward Driving)

1. **Aim High in Steering ®** - Avoid Collisions by seeing, evaluating, and acting upon all information available.
2. **Get the Big Picture ®** - Fewer mistakes are made when you have the complete traffic picture.
3. **Keep Your Eyes Moving ®** - Proper scanning techniques separate safe drivers from people who make costly errors.
4. **Leave Yourself an Out ®** - All that separates drivers from a collision is space. Use it to your advantage. This also applies to parking—to ensure safe and easy exit in case of emergency, choose pull through spaces or back into parking spaces when possible.
5. **Make Sure They See You ®** - Seek eye contact and use your warning devices at the same time

Smith System® Five Keys (Backing-Up Driving)

AVOID BACKING WHENEVER POSSIBLE - But When It's Unavoidable:

1. Check The Backing Area First
2. Back Slowly And Carefully – Use A Spotter If Necessary
3. Remain Aware Of The Blind Areas
4. Look Front, Sides, And Rear As You Back
5. Back No Further Than You Must

VEHICLE PRE-TRIP CHECKLIST

Date: 4-8-2013

Unit: Nissan Frontier

Operator: Kyle Haskin

CHECK BEFORE OPERATING	OK	NR	COMMENTS
Driver's License on Hand	X		
ARCADIS Insurance Card in Vehicle	X		
Back-up Alarm Operational			NA
Tires (tread, pressure, cracking)	X		
Taillights Operational	X		
Turn Signals Operational	X		
Brake Lights Operational	X		
Back-Up Lights Operational	X		
Headlights Operational	X		
Parking Lights Operational	X		
Mirrors Adjusted to Minimize Blind Spots	X		
Under the Vehicle (nothing hanging or leaking)	X		
Windshield Wipers and Fluid all Functional	X		
Heavy Items Secured Down Low or in Trunk	X		
Make Sure All Doors are Fully Closed and Locked	X		
Adjust Your Seat if Needed	X		
Adjust Your Head Restraint to Match Height of Head	X		
Driver and All Passengers Must Fasten Safety Belt	X		
Scan the Gauges to Make Sure Everything is Normal	X		
Adjust the Vents, Windows, and Heater or Air Conditioner for Comfort	X		
Review Driving JLA	X		
Make Sure You are Mentally and Physically Ready to Drive	X		
Perform a Driving-Related Safety Moment (record in comments)	X		Smith System

NR = Needs repair

GENERAL PERMIT TO WORK DAILY TAILGATE FORM

Facility # KMEP-MI **Project #** ~~WA000004.2013~~ WA000004.2013

Project Address: Harbor Island **ARCADIS PM:** C. Angier

Designated Health and Safety Supervisor: Eric Epple **Total # On-site Workers:** 2

Today's Date: 04/08/13 **Time Written:** 0905 **Time Closed-out:**

1.	a. Have necessary work permits been obtained (including those for subcontractors)?	☒ Yes ☐ No ☐ N
	b. If **CONFINED SPACE** activities are to be conducted has the CONFINED SPACE portion of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N
	c. If **EXCAVATION / TRENCHING / DRILLING / OVERHEAD CLEARANCE** activities deeper than 4 feet and/or within 10 feet of a high pressure gas line and/or within 3 feet of a buried active product or electric line or overhead work involving equipment within 15 feet of an overhead electric line or pole supporting the line are to be conducted has the applicable portion of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N
	d. If **HOTWORK** activities are to be conducted has the HOTWORK and FIRE MONITOR ACTIVITY LOG portions of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N
	e (i). If **LOCK OUT / TAG OUT (LO/TO)** activities are to be conducted has the LO/TO portion of the HIGH RISK WORK PERMIT been completed? *See e (ii) below.*	☐ Yes ☐ No ☒ N
	f. If workers are **WORKING AT an ELEVATION over 6 feet** has the WORKING AT ELEVATION portion of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N
	g. If **DEMOLITION, REMOVAL OF PIPELINES AND BURIED STRUCTURES** work activities are to be conducted has the EXCAVATION / TRENCHING / DRILLING / OVERHEAD CLEARANCE and DEMOLITION, REMOVAL OF PIPELINES AND BURIED STRUCTURES portions of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N
2.	Have applicable vehicle inspection checklists been completed by ARCADIS personnel and ARCADIS subcontractors (if applicable)? Has subcontractor paperwork been inspected?	☒ Yes ☐ No ☐ N
3.	Has the HASP been signed by appropriate on-site personnel?	☒ Yes ☐ No ☐ N
4.	Have all sections of the HASP applying to today's tasks been reviewed by all workers and visitors?	☒ Yes ☐ No ☐ N
5.	Has the scope of work/work plan been reviewed and fully understood?	☒ Yes ☐ No ☐ N
6.	Has everyone reviewed the HASP section related to emergencies and know his/her role during an emergency?	☒ Yes ☐ No ☐ N
7.	Does everyone know the location, directions to, and name of the nearest hospital? Harbor View	☒ Yes ☐ No ☐ N
8.	Where will the scope of work or work plan and HASP be kept on site? **Location:** Field Truck	
9.	What level of PPE is required (See note on following page)?	A ☐ B ☐ C ☒ D ☐ Other
10.	Are appropriate tools on-site to complete tasks safety and appropriately?	☒ Yes ☐ No ☐ N
11.	Has ARCADIS hand safety policy been discussed and highlighted during the health and safety meeting?	☒ Yes ☐ No ☐ N
12.	Has everyone reviewed the applicable SOPs and JLAs for their assigned work duties?	☒ Yes ☐ No ☐ N
13.	Has JLA been modified in the field to include up-to-minute site conditions and notation of puncture resistant footwear required/not required?	☒ Yes ☐ No ☐ N
14.	Have the action levels and work zones been identified and reviewed?	☒ Yes ☐ No ☐ N
15.	a. If monitoring is required, what type of monitoring will be performed? **Type:** PID + Multi-Gas *(See 15b-15d)* ☐ N/A	
	b. Is monitoring equipment present and properly calibrated?	☒ Yes ☐ No ☐ N
	c. Have HASP requirements for air monitoring been reviewed?	☒ Yes ☐ No ☐ N
	d. Will Air Monitoring Log be completed by Health & Safety Supervisor (HSS)?	☒ Yes ☐ No ☐ N
16.	Will work conducted by others in the area affect/conflict your work area?	☒ Yes ☐ No ☐ N
17.	Will GFCI in-line protectors, positioned next to the power source, be tested and utilized if AC-powered equipment is used?	☐ Yes ☐ No ☒ N
18.	Are above-ground utilities identified and clearly visible by equipment operators? Underground utilities marked?	☐ Yes ☐ No ☒ N
19.	Has the underground/overhead utilities checklist been completed?	☐ Yes ☐ No ☒ N
20.	Have shut-off switches/valves been located (as required by scope work)?	☐ N/A ☐ Electric ☒ Gas ☐ Water
21.	Are proper traffic and/or fire control measures in-place? Has the STAR plan been reviewed?	☐ Traffic ☒ Fire Prevention ☐ N/A
22.	Where is the support zone located?	**Location:** D Yard Central
23.	Has an evacuation signal (i.e. emergency alarm, hand signal) been communicated to site personnel?	☒ Yes ☐ No ☐ N
24.	Where is the nearest working phone located (non-cell phone)	**Location:** Office Building
25.	What is the local emergency phone number?	**Number:** 911
26.	Where is the location of the primary first aid kit (to include portable eyewash & CPR shield)	**Location:** Field Truck
27.	Where is the location of the primary fire extinguisher?	**Location:** Field Truck
28.	Document last inspection date of primary fire extinguisher and expiration of primary first aid kit contents:	**Extinguisher -** 04/13 **First Aid Kit -** 04/0
29.	Have modifications to safety procedures (e.g JLAs) been made and communicated to onsite personnel?	☒ Yes ☐ No ☐
30.	Has a plan been established to sample, store, label and dispose of waste properly?	☒ Yes ☐ No ☐
31.	Are MSDS for ALL chemicals being used at site (oils, detergents, preservatives, etc.) included in HASP?	☒ Yes ☐ No ☐
32.	Are personnel qualified to perform work at site? Training records verified?	☒ Yes ☐ No ☐
33.	Has operating vehicle/machinery in reverse been discouraged duringtailgate? Will spotters be used when available?	☒ Yes ☐ No ☐

Special Safety Concerns For Today

Personnel wishing to volunteer information relating to allergies/ailments/illnesses AND whether s/he is wearing contact lenses:

Last Name:	Note:	Last Name:	Note:
Last Name:	Note:	Last Name:	Note:
Last Name:	Note:	Last Name:	Note:

Stop Work Authority: You are responsible and authorized to stop any work that is not safe. There will be NO repercussions for initiating Stop Work Authority.

NOTICE TO ALL WORKERS: – By signing below, you agree that you have read and fully understand the JLAs applicable to you and your assigned duties.

Signature Section

	Name (PRINT)	Company	Before Work (Time)	Signature	Mid Day (Time)	Initials (Mid- Day Meeting)
1.	Eric Epple	AUS	0900			
2.	Kyle Haslam	AUS	0900			
3.						
4.						
6.						
7.						
8.						

"I have assessed the risks posed by work activities planned for today and steps to mitigate those risks (e.g. E-HASP, JLA, PTW, tailgate meeting, coordination with other parties on site, etc.) have been completed to the best of our ability. Work is safe to proceed. If site conditions change, Stop Work Authority will be used to assess work conditions."

Permit Writer/Holder: Eric Epple **Date** (04/08/13)

Reference Section

5 Keys to Operational Discipline

1. Everyone knows how to do their job correctly and safely.
2. Workers recognize hazards and anticipate unusual situations.
3. When unusual situations occur, work is stopped and change is effectively managed.
4. Supervisors and leaders reinforce the right behaviors and correct poor behavior and performance.
5. Workers expect and demand that their coworkers follow procedures.

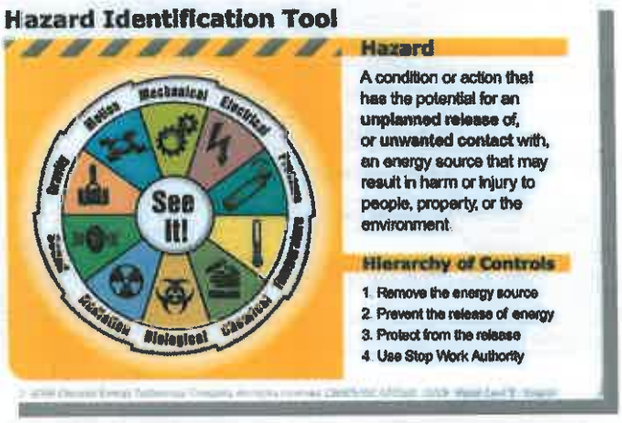
T Don't just list out the major tasks of the project or job – Brainstorming sessions, workshops, group sessions with people involved in the work to truly understand all of the work that will be done and how it will get done

R Identify the hazards by sources using our 12 Hazard Source Categories – provide detail – who, what, when, how, etc.

A For each hazard identified, assess the level of risk determine the likelihood it will occur, what is the most likely or feasible consequence, and how frequent the hazard is present to determine the level of risk.

C Use the hierarchy of controls to determine the best, most practical controls for each hazard – eliminate, substitute, isolate, engineer out, administratively manage, then consider PPE

K Don't start work until all hazards are appropriately controlled.



Identified Hazards	Steps to Mitigate
Gravity: S, T, + F, Falls	TRACK, Good Housekeeping, Management
Motion – Traffic in A Yard	Buddy Systems, Delineators
Chemical – Gas Productucts	– Proper Decon + PPE – Air Monitoring
Sound	– Hearing Protection
Temperature + Weather	– Cold / Rain => Dress Warm + Dry

HAVE A SAFETY MEETING BEFORE WORK AND MID-DAY

Smith System® Five Keys (Forward Driving)

1. **Aim High in Steering ®** - Avoid Collisions by seeing, evaluating, and acting upon all information available.
2. **Get the Big Picture ®** - Fewer mistakes are made when you have the complete traffic picture.
3. **Keep Your Eyes Moving ®** - Proper scanning techniques separate safe drivers from people who make costly errors.
4. **Leave Yourself an Out ®** - All that separates drivers from a collision is space. Use it to your advantage. This also applies to parking—to ensure safe and easy exit in case of emergency, choose pull through spaces or back into parking spaces when possible.
5. **Make Sure They See You ®** - Seek eye contact and use your warning devices at the same time

Smith System® Five Keys (Backing-Up Driving)

AVOID BACKING WHENEVER POSSIBLE - But When It's Unavoidable:

1. Check The Backing Area First
2. Back Slowly And Carefully – Use A Spotter If Necessary
3. Remain Aware Of The Blind Areas
4. Look Front, Sides, And Rear As You Back
5. Back No Further Than You Must

VEHICLE PRE-TRIP CHECKLIST

Date: 04/09/13

Unit: Rental Truck

Operator: Eric Epple

CHECK BEFORE OPERATING	OK	NR	COMMENTS
Driver's License on Hand	X		
ARCADIS Insurance Card in Vehicle	X		
Back-up Alarm Operational		X	Rental
Tires (tread, pressure, cracking)	X		
Taillights Operational	X		
Turn Signals Operational	X		
Brake Lights Operational	X		
Back-Up Lights Operational	X		
Headlights Operational	X		
Parking Lights Operational	X		
Mirrors Adjusted to Minimize Blind Spots	X		
Under the Vehicle (nothing hanging or leaking)	X		
Windshield Wipers and Fluid all Functional	X		
Heavy Items Secured Down Low or in Trunk	X		
Make Sure All Doors are Fully Closed and Locked	X		
Adjust Your Seat if Needed	X		
Adjust Your Head Restraint to Match Height of Head	X		
Driver and All Passengers Must Fasten Safety Belt	X		
Scan the Gauges to Make Sure Everything is Normal	X		
Adjust the Vents, Windows, and Heater or Air Conditioner for Comfort	X		
Review Driving JLA	X		
Make Sure You are Mentally and Physically Ready to Drive	X		
Perform a Driving-Related Safety Moment (record in comments)	X		2 Vehicles, Designated Parking

NR = Needs repair

Smith System® Five Keys (Forward Driving)

1. **Aim High in Steering ®** - Avoid Collisions by seeing, evaluating, and acting upon all information available.
2. **Get the Big Picture ®** - Fewer mistakes are made when you have the complete traffic picture.
3. **Keep Your Eyes Moving ®** - Proper scanning techniques separate safe drivers from people who make costly errors.
4. **Leave Yourself an Out ®** - All that separates drivers from a collision is space. Use it to your advantage. This also applies to parking—to ensure safe and easy exit in case of emergency, choose pull through spaces or back into parking spaces when possible.
5. **Make Sure They See You ®** - Seek eye contact and use your warning devices at the same time

Smith System® Five Keys (Backing-Up Driving)

AVOID BACKING WHENEVER POSSIBLE - But When It's Unavoidable:

1. Check The Backing Area First
2. Back Slowly And Carefully – Use A Spotter If Necessary
3. Remain Aware Of The Blind Areas
4. Look Front, Sides, And Rear As You Back
5. Back No Further Than You Must

VEHICLE PRE-TRIP CHECKLIST

Date: 4/9/12

Unit: Field Van

Operator: K. Haslam

CHECK BEFORE OPERATING	OK	NR	COMMENTS
Driver's License on Hand	✓		
ARCADIS Insurance Card in Vehicle	✓		
Back-up Alarm Operational			NA
Tires (tread, pressure, cracking)	✓		
Taillights Operational	✓		
Turn Signals Operational	✓		
Brake Lights Operational	✓		
Back-Up Lights Operational	✓		
Headlights Operational	✓		
Parking Lights Operational	✓		
Mirrors Adjusted to Minimize Blind Spots	✓		
Under the Vehicle (nothing hanging or leaking)	✓		
Windshield Wipers and Fluid all Functional	✓		
Heavy Items Secured Down Low or in Trunk	✓		
Make Sure All Doors are Fully Closed and Locked	✓		
Adjust Your Seat if Needed	✓		
Adjust Your Head Restraint to Match Height of Head	✓		
Driver and All Passengers Must Fasten Safety Belt	✓		
Scan the Gauges to Make Sure Everything is Normal	✓		
Adjust the Vents, Windows, and Heater or Air Conditioner for Comfort	✓		
Review Driving JLA	✓		
Make Sure You are Mentally and Physically Ready to Drive	✓		
Perform a Driving-Related Safety Moment (record in comments)	✓		Make sure items are packed to avoid shifting

NR = Needs repair

GENERAL PERMIT TO WORK DAILY TAILGATE FORM

Facility # KINEP-HI **Project #** WA0008044.2013

Project Address: Harbor Island **ARCADIS PM:** C. Angier

Designated Health and Safety Supervisor: **Total # On-site Workers:** 3

Today's Date: 04/09/13 **Time Written:** 0815 **Time Closed-out:**

1.	a. Have necessary work permits been obtained (including those for subcontractors)?	☒ Yes ☐ No ☐ N
	b. If **CONFINED SPACE** activities are to be conducted has the CONFINED SPACE portion of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N
	c. If **EXCAVATION / TRENCHING / DRILLING / OVERHEAD CLEARANCE** activities deeper than 4 feet and/or within 10 feet of a high pressure gas line and/or within 3 feet of a buried active product or electric line or overhead work involving equipment within 15 feet of an overhead electric line or pole supporting the line are to be conducted has the applicable portion of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N
	d. If **HOTWORK** activities are to be conducted has the HOTWORK and FIRE MONITOR ACTIVITY LOG portions of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N
	e (i). If **LOCK OUT / TAG OUT (LO/TO)** activities are to be conducted has the LO/TO portion of the HIGH RISK WORK PERMIT been completed? *See e (ii) below.*	☐ Yes ☐ No ☒ N
	f. If workers are **WORKING AT an ELEVATION over 6 feet** has the WORKING AT ELEVATION portion of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N
	g. If **DEMOLITION, REMOVAL OF PIPELINES AND BURIED STRUCTURES** work activities are to be conducted has the EXCAVATION / TRENCHING / DRILLING / OVERHEAD CLEARANCE and DEMOLITION, REMOVAL OF PIPELINES AND BURIED STRUCTURES portions of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N
2.	Have applicable vehicle inspection checklists been completed by ARCADIS personnel and ARCADIS subcontractors (if applicable)? Has subcontractor paperwork been inspected?	☒ Yes ☐ No ☐ N
3.	Has the HASP been signed by appropriate on-site personnel?	☒ Yes ☐ No ☐ N
4.	Have all sections of the HASP applying to today's tasks been reviewed by all workers and visitors?	☒ Yes ☐ No ☐ N
5.	Has the scope of work/work plan been reviewed and fully understood?	☒ Yes ☐ No ☐ N
6.	Has everyone reviewed the HASP section related to emergencies and know his/her role during an emergency?	☐ Yes ☐ No ☐ N
7.	Does everyone know the location, directions to, and name of the nearest hospital?	☐ Yes ☐ No ☐ N
8.	Where will the scope of work or work plan and HASP be kept on site?	**Location:** Field Van + Staging Area
9.	What level of PPE is required (See note on following page)?	A ☐ B ☐ C ☒ D ☐ Other
10.	Are appropriate tools on-site to complete tasks safety and appropriately?	☒ Yes ☐ No ☐ N
11.	Has ARCADIS hand safety policy been discussed and highlighted during the health and safety meeting?	☒ Yes ☐ No ☐ N
12.	Has everyone reviewed the applicable SOPs and JLAs for their assigned work duties?	☒ Yes ☐ No ☐ N
13.	Has JLA been modified in the field to include up-to-minute site conditions and notation of puncture resistant footwear required/not required?	☒ Yes ☐ No ☐ N
14.	Have the action levels and work zones been identified and reviewed?	☒ Yes ☐ No ☐ N
15.	a. If monitoring is required, what type of monitoring will be performed?	**Type:** PID Mini *(See 15b-15d)* ☐ N/A
	b. Is monitoring equipment present and properly calibrated?	☒ Yes ☐ No ☐ N
	c. Have HASP requirements for air monitoring been reviewed?	☒ Yes ☐ No ☐ N
	d. Will Air Monitoring Log be completed by Health & Safety Supervisor (HSS)?	☒ Yes ☐ No ☐ N
16.	Will work conducted by others in the area affect/conflict your work area?	☒ Yes ☐ No ☐ N
17.	Will GFCI in-line protectors, positioned next to the power source, be tested and utilized if AC-powered equipment is used?	☐ Yes ☐ No ☒ N
18.	Are above-ground utilities identified and clearly visible by equipment operators? Underground utilities marked?	☐ Yes ☐ No ☒ N
19.	Has the underground/overhead utilities checklist been completed?	☐ Yes ☐ No ☒ N
20.	Have shut-off switches/valves been located (as required by scope work)?	☐ N/A ☐ Electric ☒ Gas ☐ Water
21.	Are proper traffic and/or fire control measures in-place? Has the STAR plan been reviewed?	☒ Traffic ☐ Fire Prevention ☐ N/A
22.	Where is the support zone located?	**Location:** D Yard
23.	Has an evacuation signal (i.e. emergency alarm, hand signal) been communicated to site personnel?	☒ Yes ☐ No ☐ N
24.	Where is the nearest working phone located (non-cell phone)	**Location:** Office Building
25.	What is the local emergency phone number?	**Number:** 911
26.	Where is the location of the primary first aid kit (to include portable eyewash & CPR shield)	**Location:** PPE Bags
27.	Where is the location of the primary fire extinguisher?	**Location:** On Site
28.	Document last inspection date of primary fire extinguisher and expiration of primary first aid kit contents:	**Extinguisher -** 2013 **First Aid Kit -** 04/13
29.	Have modifications to safety procedures (e.g JLAs) been made and communicated to onsite personnel?	☒ Yes ☐ No ☐
30.	Has a plan been established to sample, store, label and dispose of waste properly?	☒ Yes ☐ No ☐
31.	Are MSDS for ALL chemicals being used at site (oils, detergents, preservatives, etc.) included in HASP?	☒ Yes ☐ No ☐
32.	Are personnel qualified to perform work at site? Training records verified?	☒ Yes ☐ No ☐
33.	Has operating vehicle/machinery in reverse been discouraged duringtailgate? Will spotters be used when available?	☒ Yes ☐ No ☐

Special Safety Concerns For Today

Personnel wishing to volunteer information relating to allergies/ailments/illnesses AND whether s/he is wearing contact lenses:

Last Name:	Note:	Last Name:	Note:
Last Name:	Note:	Last Name:	Note:
Last Name:	Note:	Last Name:	Note:

Stop Work Authority: You are responsible and authorized to stop any work that is not safe. There will be NO repercussions for initiating Stop Work Authority.

NOTICE TO ALL WORKERS: – By signing below, you agree that you have read and fully understand the JLAs applicable to you and your assigned duties.

Signature Section

	Name (PRINT)	Company	Before Work (Time)	Signature	Mid Day (Time)	Initials (Mid- Day Meeting)
1.	Eric Epple	AUS	0830			
2.	Kyle Haslam	AUS	0830			
3.	Rory Hemmelk	AUS	0830			
4.						
6.						
7.						
8.						

"I have assessed the risks posed by work activities planned for today and steps to mitigate those risks (e.g. E-HASP, JLA, PTW, tailgate meeting, coordination with other parties on site, etc.) have been completed to the best of our ability. Work is safe to proceed. If site conditions change, Stop Work Authority will be used to assess work conditions."

Permit Writer/Holder: Eric Epple **Date** (04/09/13)

Reference Section

5 Keys to Operational Discipline

1. Everyone knows how to do their job correctly and safely.
2. Workers recognize hazards and anticipate unusual situations.
3. When unusual situations occur, work is stopped and change is effectively managed.
4. Supervisors and leaders reinforce the right behaviors and correct poor behavior and performance.
5. Workers expect and demand that their coworkers follow procedures.

T Don't just list out the major tasks of the project or job — Brainstorming sessions, workshops, group sessions with people involved in the work to truly understand all of the work that will be done and how it will get done

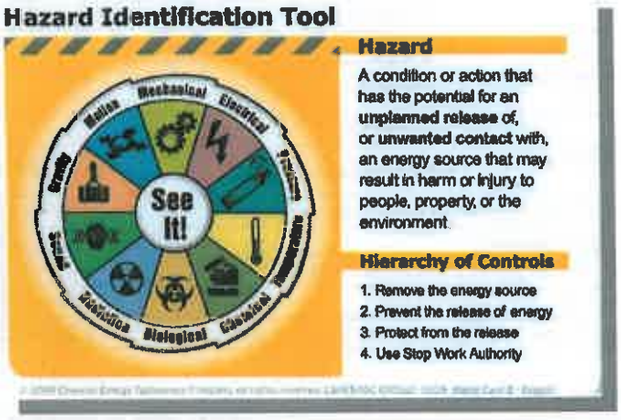
R Identify the hazards by sources using our 12 Hazard Source Categories — provide detail — who, what, when, how, etc.

A For each hazard identified, assess the level of risk: determine the likelihood it will occur, what is the most likely or feasible consequence, and how frequent the hazard is present to determine the level of risk.

C Use the hierarchy of controls to determine the best, most practical controls for each hazard — eliminate, substitute, isolate, engineer out, administratively manage, then consider PPE

K Don't start work until all hazards are appropriately controlled.

Hazard Identification Tool



Hazard

A condition or action that has the potential for an unplanned release of, or unwanted contact with, an energy source that may result in harm or injury to people, property, or the environment

Hierarchy of Controls

1. Remove the energy source
2. Prevent the release of energy
3. Protect from the release
4. Use Stop Work Authority

Gravity - falling object, collapsing roof, and a body tripping or falling

Motion - vehicle, vessel, or equipment movement; flowing water; wind; and body positioning when lifting, straining, or bending

Mechanical - rotating equipment, compressed springs, drive belts, conveyors, and motors

Electrical - power lines, transformers, static charges, lightning, energized equipment, wiring, and batteries

Pressure - pressure piping, compressed cylinders, control lines, vessels, tanks, hoses, and pneumatic and hydraulic equipment

Temperature - open flame, ignition sources; hot or cold surfaces, liquids, or gases; steam; friction, and general environmental and weather conditions

Chemical - flammable vapors, reactive hazards, carcinogens or other toxic compounds, corrosives, pyrophorics, combustibles, oxygen-deficient atmospheres, welding fumes, and dusts

Biological - animals, bacteria, viruses, insects, blood-borne pathogens, improperly handled food, and contaminated water

Radiation - lighting issues, welding arcs, solar rays, microwaves, lasers, X-rays, and NORM scale

Sound - equipment noise, impact noise, vibration, high-pressure release, and the impact of noise to communication

Identified Hazards	Steps to Mitigate
Gravity: Uneven Surfaces, Equipment	Paths/JMP, TRACK, Good Housekeeping
Motion: Traffic Vehicles, Pinch Points	Delineation, Distances, Track
Mechanical: Equipment, Wagon, Pumps	Inspections, Distance
Chemical: Petroleum Products, Pres. Bottles	PPE, Air Monitoring
Temperature: Cold + Rain	Press Warm

© [illegible]

HAVE A SAFETY MEETING BEFORE WORK AND MID-DAY

ARCADIS

Infrastructure · Water · Environment · Buildings

Smith System® Five Keys (Forward Driving)

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3. **Keep Your Eyes Moving ®** - Proper scanning techniques separate safe drivers from people who make costly errors.
4. **Leave Yourself an Out ®** - All that separates drivers from a collision is space. Use it to your advantage. This also applies to parking—to ensure safe and easy exit in case of emergency, choose pull through spaces or back into parking spaces when possible.
5. **Make Sure They See You ®** - Seek eye contact and use your warning devices at the same time

Smith System® Five Keys (Backing-Up Driving)

AVOID BACKING WHENEVER POSSIBLE - But When It's Unavoidable:

1. Check The Backing Area First
2. Back Slowly And Carefully – Use A Spotter If Necessary
3. Remain Aware Of The Blind Areas
4. Look Front, Sides, And Rear As You Back
5. Back No Further Than You Must

VEHICLE PRE-TRIP CHECKLIST

Date: 4/10/13

Unit: Rental Nissan Frontier

Operator: K Haglen

CHECK BEFORE OPERATING	OK	NR	COMMENTS
Driver's License on Hand	✓		
ARCADIS Insurance Card in Vehicle	✓		
Back-up Alarm Operational			NA
Tires (tread, pressure, cracking)	✓		
Taillights Operational	✓		
Turn Signals Operational	✓		
Brake Lights Operational	✓		
Back-Up Lights Operational	✓		
Headlights Operational	✓		
Parking Lights Operational	✓		
Mirrors Adjusted to Minimize Blind Spots	✓		
Under the Vehicle (nothing hanging or leaking)	✓		
Windshield Wipers and Fluid all Functional	✓		
Heavy Items Secured Down Low or in Trunk	✓		
Make Sure All Doors are Fully Closed and Locked	✓		
Adjust Your Seat if Needed	✓		
Adjust Your Head Restraint to Match Height of Head	✓		
Driver and All Passengers Must Fasten Safety Belt	✓		
Scan the Gauges to Make Sure Everything is Normal	✓		
Adjust the Vents, Windows, and Heater or Air Conditioner for Comfort	✓		
Review Driving JLA	✓		
Make Sure You are Mentally and Physically Ready to Drive	✓		
Perform a Driving-Related Safety Moment (record in comments)	✓		Extra following distance for racing conditions

NR = Needs repair

GENERAL PERMIT TO WORK DAILY TAILGATE FORM

Facility # Kinder Morgan Liquids Terminal **Project #** WA000804.2013

Project Address: 2720 13th Ave Seattle, WA **ARCADIS PM:** C. Angier

Designated Health and Safety Supervisor: Kyle Hasler **Total # On-site Workers:** 2

Today's Date: 04/10/13 **Time Written:** 7:15 **Time Closed-out:**

1.	a. Have necessary work permits been obtained (including those for subcontractors)?	☑ Yes ☐ No ☐ N
	b. If **CONFINED SPACE** activities are to be conducted has the CONFINED SPACE portion of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☑ N
	c. If **EXCAVATION / TRENCHING / DRILLING / OVERHEAD CLEARANCE** activities deeper than 4 feet and/or within 10 feet of a high pressure gas line and/or within 3 feet of a buried active product or electric line or overhead work involving equipment within 15 feet of an overhead electric line or pole supporting the line are to be conducted has the applicable portion of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☑ N
	d. If **HOTWORK** activities are to be conducted has the HOTWORK and FIRE MONITOR ACTIVITY LOG portions of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☐ N
	e (i). If **LOCK OUT / TAG OUT (LO/TO)** activities are to be conducted has the LO/TO portion of the HIGH RISK WORK PERMIT been completed? *See e (ii) below.*	☐ Yes ☐ No ☑ N
	f. If workers are **WORKING AT an ELEVATION over 6 feet** has the WORKING AT ELEVATION portion of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☑ N
	g. If **DEMOLITION, REMOVAL OF PIPELINES AND BURIED STRUCTURES** work activities are to be conducted has the EXCAVATION / TRENCHING / DRILLING / OVERHEAD CLEARANCE and DEMOLITION, REMOVAL OF PIPELINES AND BURIED STRUCTURES portions of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☑ N
2.	Have applicable vehicle inspection checklists been completed by ARCADIS personnel and ARCADIS subcontractors (if applicable)? Has subcontractor paperwork been inspected?	☑ Yes ☐ No ☐ N
3.	Has the HASP been signed by appropriate on-site personnel?	☑ Yes ☐ No ☐ N
4.	Have all sections of the HASP applying to today's tasks been reviewed by all workers and visitors?	☑ Yes ☐ No ☐ N
5.	Has the scope of work/work plan been reviewed and fully understood? B yard, offsite wells, A yard	☑ Yes ☐ No ☐ N
6.	Has everyone reviewed the HASP section related to emergencies and know his/her role during an emergency?	☑ Yes ☐ No ☐ N
7.	Does everyone know the location, directions to, and name of the nearest hospital?	☑ Yes ☐ No ☐ N
8.	Where will the scope of work or work plan and HASP be kept on site?	**Location:** In vehicle
9.	What level of PPE is required (See note on following page)?	☐ A ☐ B ☐ C ☐ D ☑ Other
10.	Are appropriate tools on-site to complete tasks safety and appropriately?	☑ Yes ☐ No ☐ N
11.	Has ARCADIS hand safety policy been discussed and highlighted during the health and safety meeting?	☑ Yes ☐ No ☐ N
12.	Has everyone reviewed the applicable SOPs and JLAs for their assigned work duties?	☑ Yes ☐ No ☐ N
13.	Has JLA been modified in the field to include up-to-minute site conditions and notation of puncture resistant footwear required/not required?	☐ Yes ☐ No ☐ N
14.	Have the action levels and work zones been identified and reviewed?	☑ Yes ☐ No ☐ N
15.	a. If monitoring is required, what type of monitoring will be performed?	**Type:** 5-gas, PID *(See 15b-15d)* ☐ N/A
	b. Is monitoring equipment present and properly calibrated?	☑ Yes ☐ No ☐ N
	c. Have HASP requirements for air monitoring been reviewed?	☑ Yes ☐ No ☐ N
	d. Will Air Monitoring Log be completed by Health & Safety Supervisor (HSS)?	☐ Yes ☐ No ☑ N
16.	Will work conducted by others in the area affect/conflict your work area?	☐ Yes ☑ No ☐ N
17.	Will GFCI in-line protectors, positioned next to the power source, be tested and utilized if AC-powered equipment is used?	☐ Yes ☐ No ☑ N
18.	Are above-ground utilities identified and clearly visible by equipment operators? Underground utilities marked?	☐ Yes ☐ No ☑ N
19.	Has the underground/overhead utilities checklist been completed?	☐ Yes ☐ No ☑ N
20.	Have shut-off switches/valves been located (as required by scope work)?	☑ N/A ☐ Electric ☐ Gas ☐ Water
21.	Are proper traffic and/or fire control measures in-place? Has the STAR plan been reviewed?	☑ Traffic ☐ Fire Prevention ☐ N/A
22.	Where is the support zone located?	**Location:** D yard waste storage area
23.	Has an evacuation signal (i.e. emergency alarm, hand signal) been communicated to site personnel?	☑ Yes ☐ No ☐ N
24.	Where is the nearest working phone located (non-cell phone)	**Location:** Office
25.	What is the local emergency phone number?	**Number:** 911
26.	Where is the location of the primary first aid kit (to include portable eyewash & CPR shield)	**Location:** Truck
27.	Where is the location of the primary fire extinguisher?	**Location:** Truck or nearest mounted in yard
28.	Document last inspection date of primary fire extinguisher and expiration of primary first aid kit contents:	**Extinguisher -** 4/13 **First Aid Kit -** 10/13
29.	Have modifications to safety procedures (e.g JLAs) been made and communicated to onsite personnel?	☑ Yes ☐ No ☐
30.	Has a plan been established to sample, store, label and dispose of waste properly?	☑ Yes ☐ No ☐
31.	Are MSDS for ALL chemicals being used at site (oils, detergents, preservatives, etc.) included in HASP?	☑ Yes ☐ No ☐
32.	Are personnel qualified to perform work at site? Training records verified?	☑ Yes ☐ No ☐
33.	Has operating vehicle/machinery in reverse been discouraged duringtailgate? Will spotters be used when available?	☑ Yes ☐ No ☐

Special Safety Concerns For Today

Personnel wishing to volunteer information relating to allergies/ailments/illnesses AND whether s/he is wearing contact lenses:

Last Name:	Note:	Last Name:	Note:
Last Name:	Note:	Last Name:	Note:
Last Name:	Note:	Last Name:	Note:

Stop Work Authority: You are responsible and authorized to stop any work that is not safe. There will be NO repercussions for initiating Stop Work Authority.

NOTICE TO ALL WORKERS: – By signing below, you agree that you have read and fully understand the JLAs applicable to you and your assigned duties.

Signature Section

Name (PRINT)	Company	Before Work (Time)	Signature	Mid Day (Time)	Initials (Mid- Day Meeting)
1. Rory Hanneke	AUS	7:30	Rory C Hanneke		
2. Kyle Haslam	AUS	7:30	Kyle Haslam		
3.					
4.					
6.					
7.					
8.					

"I have assessed the risks posed by work activities planned for today and steps to mitigate those risks (e.g. E-HASP, JLA, PTW, tailgate meeting, coordination with other parties on site, etc.) have been completed to the best of our ability. Work is safe to proceed. If site conditions change, Stop Work Authority will be used to assess work conditions."

Permit Writer/Holder: Rory C Hanneke **Date (** 04 / 10 / 13 **)**

Reference Section

5 Keys to Operational Discipline

1. Everyone knows how to do their job correctly and safely.
2. Workers recognize hazards and anticipate unusual situations.
3. When unusual situations occur, work is stopped and change is effectively managed.
4. Supervisors and leaders reinforce the right behaviors and correct poor behavior and performance.
5. Workers expect and demand that their coworkers follow procedures.

T Don't just list out the major tasks of the project or job – Brainstorming sessions, workshops, group sessions with people involved in the work to truly understand all of the work that will be done and how it will get done

R Identify the hazards by sources using our 12 Hazard Source Categories – provide detail – who, what, when, how, etc.

A For each hazard identified, assess the level of risk determine the likelihood it will occur, what is the most likely or feasible consequence, and how frequent the hazard is present to determine the level of risk.

C Use the hierarchy of controls to determine the best, most practical controls for each hazard – eliminate, substitute, isolate, engineer out, administratively manage, then consider PPE

K Don't start work until all hazards are appropriately controlled.

Hazard Identification Tool

Hazard

A condition or action that has the potential for an unplanned release of, or unwanted contact with, an energy source that may result in harm or injury to people, property, or the environment.

Hierarchy of Controls

1. Remove the energy source
2. Prevent the release of energy
3. Protect from the release
4. Use Stop Work Authority

Gravity - falling object, collapsing roof, and a body tripping or falling

Motion - vehicle, vessel, or equipment movement, flowing water; wind; and body positioning when lifting, straining, or bending

Mechanical - rotating equipment, compressed springs, drive belts, conveyors, and motors

Electrical - power lines, transformers, static charges, lightning, energized equipment, wiring, and batteries

Pressure - pressure piping, compressed cylinders, control lines, vessels, tanks, hoses, and pneumatic and hydraulic equipment

Temperature - open flame; ignition sources; hot or cold surfaces, liquids, or gases; steam; friction; and general environmental and weather conditions

Chemical - flammable vapors, reactive hazards, carcinogens or other toxic compounds, corrosives, pyrophorics, combustibles, oxygen-deficient atmospheres, welding fumes, and dusts

Biological - animals, bacteria, viruses, insects, blood-borne pathogens, improperly handled food, and contaminated water

Radiation - lighting issues, welding arcs, solar rays, microwaves, lasers, X-rays, and NORM scale

Sound - equipment noise, impact noise, vibration, high-pressure release, and the impact of noise to communication

Identified Hazards	Steps to Mitigate
tripping on tools, equipment	Practice good housekeeping
Tripping on uneven surfaces, curbs, etc.	Walk around, not over obstacles
Cold stress	Wear rangear and layers
Pinch points from vaults	Use tools to open, wear leather gloves
Exposure to toxics, corrosives	Monitor air w/ 5-gas, wear eye prot., nitrile gloves

Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/12/13

Job: WA000804, 2013/KMLT-Harbor Island

Anions by IC
EPA Method 300.0

Parameter		Concentration		Reporting Limit	Date Extracted	Date Analyzed
Client ID: **A-21**						
Lab ID : ARC13041242-05A	Nitrate (NO3) - N	ND		0.25 mg/L	04/12/13 11:00	04/12/13 13:02
Date Sampled 04/10/13 14:15	Sulfate (SO4)	920		250 mg/L	04/12/13 11:00	04/12/13 21:05
Client ID: **A-23R**						
Lab ID : ARC13041242-06A	Nitrate (NO3) - N	ND	*	0.25 mg/L	04/12/13 11:00	04/12/13 17:05
Date Sampled 04/08/13 16:15	Sulfate (SO4)	1,000		5.0 mg/L	04/12/13 11:00	04/12/13 21:24
Client ID: **A-27**						
Lab ID : ARC13041242-07A	Nitrate (NO3) - N	ND	*	0.25 mg/L	04/12/13 11:00	04/12/13 17:23
Date Sampled 04/10/13 12:00	Sulfate (SO4)	3.3		0.50 mg/L	04/12/13 11:00	04/12/13 14:53
Client ID: **A-28R**						
Lab ID : ARC13041242-08A	Nitrate (NO3) - N	ND	*	0.25 mg/L	04/12/13 11:00	04/12/13 17:42
Date Sampled 04/10/13 11:15	Sulfate (SO4)	7.9		0.50 mg/L	04/12/13 11:00	04/12/13 15:11
Client ID: **MW-6**						
Lab ID : ARC13041242-15A	Nitrate (NO3) - N	0.92	*	0.25 mg/L	04/12/13 11:00	04/12/13 18:00
Date Sampled 04/09/13 17:00	Sulfate (SO4)	15		0.50 mg/L	04/12/13 11:00	04/12/13 15:30
Client ID: **MW-7**						
Lab ID : ARC13041242-16A	Nitrate (NO3) - N	ND	*	0.25 mg/L	04/12/13 11:00	04/12/13 18:19
Date Sampled 04/09/13 16:00	Sulfate (SO4)	4.7		0.50 mg/L	04/12/13 11:00	04/12/13 16:09
Client ID: **MW-9**						
Lab ID : ARC13041242-18A	Nitrate (NO3) - N	0.88	*	0.25 mg/L	04/12/13 11:00	04/12/13 18:37
Date Sampled 04/10/13 08:40	Sulfate (SO4)	3.2		0.50 mg/L	04/12/13 11:00	04/12/13 16:28
Client ID: **MW-14**						
Lab ID : ARC13041242-20A	Nitrate (NO3) - N	0.46	*	0.25 mg/L	04/12/13 11:00	04/12/13 18:56
Date Sampled 04/09/13 10:10	Sulfate (SO4)	9.2		0.50 mg/L	04/12/13 11:00	04/12/13 16:46
Client ID: **MW-19**						
Lab ID : ARC13041242-23A	Nitrate (NO3) - N	ND	*	0.25 mg/L	04/12/13 11:00	04/12/13 22:38
Date Sampled 04/09/13 12:15	Sulfate (SO4)	ND		0.50 mg/L	04/12/13 11:00	04/12/13 22:01
Client ID: **MW-21**						
Lab ID : ARC13041242-25A	Nitrate (NO3) - N	0.70	*	0.25 mg/L	04/12/13 11:00	04/12/13 22:56
Date Sampled 04/10/13 10:10	Sulfate (SO4)	4.2		0.50 mg/L	04/12/13 11:00	04/12/13 22:19
Client ID: **MW-23**						
Lab ID : ARC13041242-27A	Nitrate (NO3) - N	ND		0.25 mg/L	04/12/13 11:00	04/12/13 12:43
Date Sampled 04/10/13 13:15	Sulfate (SO4)	1,000		5.0 mg/L	04/12/13 11:00	04/12/13 21:42

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Client ID: **MW-24**

Lab ID :	ARC13041242-28A	Nitrate (NO3) - N	ND	0.25 mg/L	04/12/13 11:00	04/12/13 12:25
Date Sampled	04/10/13 12:30	Sulfate (SO4)	1.0	0.50 mg/L	04/12/13 11:00	04/12/13 12:25

*Nitrate was analyzed on a preserved sample. The accuracy of Nitrate may be biased high due to the possible oxidation of Nitrite to Nitrate.

ND = Not Detected

ACLASS ACCREDITED DoD ELAP

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

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

NELAP ACCREDITED TNI LABORATORY

4/25/13

Report Date

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/12/13

Job: WA000804, 2013/KMLT-Harbor Island

Iron by Spectrophotometer
SM3500-Fe B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **A-23R** Lab ID : ARC13041242-06A Iron, Ferrous (+2) Date Sampled 04/08/13 16:15	11	0.25 mg/L	04/16/13	04/16/13
Client ID: **A-27** Lab ID : ARC13041242-07A Iron, Ferrous (+2) Date Sampled 04/10/13 12:00	21	0.50 mg/L	04/16/13	04/16/13
Client ID: **A-28R** Lab ID : ARC13041242-08A Iron, Ferrous (+2) Date Sampled 04/10/13 11:15	37	1.0 mg/L	04/16/13	04/16/13
Client ID: **MW-6** Lab ID : ARC13041242-15A Iron, Ferrous (+2) Date Sampled 04/09/13 17:00	ND	0.050 mg/L	04/16/13	04/16/13
Client ID: **MW-7** Lab ID : ARC13041242-16A Iron, Ferrous (+2) Date Sampled 04/09/13 16:00	3.3	0.10 mg/L	04/16/13	04/16/13
Client ID: **MW-9** Lab ID : ARC13041242-18A Iron, Ferrous (+2) Date Sampled 04/10/13 08:40	ND	0.050 mg/L	04/16/13	04/16/13
Client ID: **MW-14** Lab ID : ARC13041242-20A Iron, Ferrous (+2) Date Sampled 04/09/13 10:10	ND	0.050 mg/L	04/16/13	04/16/13
Client ID: **MW-19** Lab ID : ARC13041242-23A Iron, Ferrous (+2) Date Sampled 04/09/13 12:15	7.5	0.25 mg/L	04/16/13	04/16/13
Client ID: **MW-21** Lab ID : ARC13041242-25A Iron, Ferrous (+2) Date Sampled 04/10/13 10:10	ND	0.050 mg/L	04/16/13	04/16/13
Client ID: **MW-23** Lab ID : ARC13041242-27A Iron, Ferrous (+2) Date Sampled 04/10/13 13:15	92	2.0 mg/L	04/16/13	04/16/13
Client ID: **MW-24** Lab ID : ARC13041242-28A Iron, Ferrous (+2) Date Sampled 04/10/13 12:30	35	1.0 mg/L	04/16/13	04/16/13

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Ferrous iron samples were color developed promptly after laboratory login.

ND = Not Detected

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4/25/13

Report Date

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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/12/13

Job: WA000804, 2013/KMLT-Harbor Island

Metals by ICPMS
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **A-14R**				
Lab ID : ARC13041242-04A Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/10/13 15:00				
Client ID: **A-21**				
Lab ID : ARC13041242-05A Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/10/13 14:15				
Client ID: **A-23R**				
Lab ID : ARC13041242-06A Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/08/13 16:15				
Client ID: **A-28R**				
Lab ID : ARC13041242-08A Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/10/13 11:15				
Client ID: **MW-07R**				
Lab ID : ARC13041242-09A Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/09/13 10:20				
Client ID: **MW-1**				
Lab ID : ARC13041242-10A Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/09/13 12:35				
Client ID: **MW-2**				
Lab ID : ARC13041242-11A Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/09/13 14:15				
Client ID: **MW-3**				
Lab ID : ARC13041242-12A Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/09/13 14:05				
Client ID: **MW-5**				
Lab ID : ARC13041242-14A Lead (Pb)	0.0073	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/09/13 11:10				
Client ID: **MW-6**				
Lab ID : ARC13041242-15A Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/09/13 17:00				
Client ID: **MW-7**				
Lab ID : ARC13041242-16A Lead (Pb)	0.0097	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/09/13 16:00				

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Client ID: **MW-8**					
Lab ID : ARC13041242-17A	Lead (Pb)	0.046	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/10/13 09:20					
Client ID: **MW-9**					
Lab ID : ARC13041242-18A	Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/10/13 08:40					
Client ID: **MW-12R**					
Lab ID : ARC13041242-19A	Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/09/13 10:55					
Client ID: **MW-14**					
Lab ID : ARC13041242-20A	Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/09/13 10:10					
Client ID: **MW-23**					
Lab ID : ARC13041242-27A	Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/10/13 13:15					
Client ID: **MW-24**					
Lab ID : ARC13041242-28A	Lead (Pb)	0.010	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/10/13 12:30					
Client ID: **MW-25**					
Lab ID : ARC13041242-29A	Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/10/13 16:50					
Client ID: **SH-02R**					
Lab ID : ARC13041242-30A	Lead (Pb)	ND	0.0050 mg/L	04/17/13	04/22/13
Date Sampled 04/09/13 12:00					

ND = Not Detected

ACLASS ACCREDITED DoD ELAP

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

NELAP ACCREDITED LABORATORY

4/25/13
Report Date

Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/12/13

Job: WA000804, 2013/KMLT-Harbor Island

Dissolved Metals by ICPMS
EPA Method 200.8

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **A-23R**				
Lab ID : ARC13041242-06A Lead (Pb), Dissolved	ND	0.0050 mg/L	04/16/13	04/16/13
Date Sampled 04/08/13 16:15				
Client ID: **MW-7**				
Lab ID : ARC13041242-16A Lead (Pb), Dissolved	ND	0.0050 mg/L	04/16/13	04/16/13
Date Sampled 04/09/13 16:00				

ND = Not Detected

ACLASS ACCREDITED DoD ELAP

Roger Scholl Randy Gardner Walter Hinchman

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NELAP ACCREDITED TNI LABORATORY

4/25/13
Report Date

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ANALYTICAL REPORT

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Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/12/13

Job: WA000804, 2013/KMLT-Harbor Island

Metals by ICPMS
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **DWS-1**				
Lab ID : ARC13041242-34A Beryllium (Be)	ND	1.0 mg/Kg	04/15/13	04/16/13
Date Sampled 04/10/13 17:10 Vanadium (V)	1.4	1.0 mg/Kg	04/15/13	04/16/13
Chromium (Cr)	1.5	1.0 mg/Kg	04/15/13	04/16/13
Cobalt (Co)	ND	1.0 mg/Kg	04/15/13	04/16/13
Nickel (Ni)	ND	2.0 mg/Kg	04/15/13	04/16/13
Copper (Cu)	4.4	2.0 mg/Kg	04/15/13	04/16/13
Zinc (Zn)	ND	20 mg/Kg	04/15/13	04/16/13
Arsenic (As)	1.5	1.0 mg/Kg	04/15/13	04/17/13
Selenium (Se)	ND	1.0 mg/Kg	04/15/13	04/16/13
Molybdenum (Mo)	ND	1.0 mg/Kg	04/15/13	04/16/13
Silver (Ag)	ND	1.0 mg/Kg	04/15/13	04/16/13
Cadmium (Cd)	ND	1.0 mg/Kg	04/15/13	04/16/13
Antimony (Sb)	ND	1.0 mg/Kg	04/15/13	04/16/13
Barium (Ba)	ND	1.0 mg/Kg	04/15/13	04/16/13
Mercury (Hg)	ND	0.20 mg/Kg	04/15/13	04/16/13
Thallium (Tl)	ND	1.0 mg/Kg	04/15/13	04/16/13
Lead (Pb)	81	1.0 mg/Kg	04/15/13	04/16/13

Sample results were calculated on a wet weight basis.
ND = Not Detected

ACCREDITED DoD ELAP

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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 an any way.

NELAP ACCREDITED TNI LABORATORY

4/25/13
Report Date

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
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/12/13

Job: WA000804, 2013/KMLT-Harbor Island

Dissolved Gases
Modified Method RSK-175 GC/FID

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **A-21**				
Lab ID : ARC13041242-05A Methane	ND	0.010 mg/L	04/16/13	04/16/13
Date Sampled 04/10/13 14:15				
Client ID: **A-23R**				
Lab ID : ARC13041242-06A Methane	ND	0.010 mg/L	04/16/13	04/16/13
Date Sampled 04/08/13 16:15				
Client ID: **A-27**				
Lab ID : ARC13041242-07A Methane	3.9	0.010 mg/L	04/16/13	04/16/13
Date Sampled 04/10/13 12:00				
Client ID: **A-28R**				
Lab ID : ARC13041242-08A Methane	2.5	0.010 mg/L	04/16/13	04/16/13
Date Sampled 04/10/13 11:15				
Client ID: **MW-6**				
Lab ID : ARC13041242-15A Methane	ND	0.010 mg/L	04/16/13	04/16/13
Date Sampled 04/09/13 17:00				
Client ID: **MW-7**				
Lab ID : ARC13041242-16A Methane	3.7	0.010 mg/L	04/16/13	04/16/13
Date Sampled 04/09/13 16:00				
Client ID: **MW-9**				
Lab ID : ARC13041242-18A Methane	6.1	0.010 mg/L	04/16/13	04/16/13
Date Sampled 04/10/13 08:40				
Client ID: **MW-14**				
Lab ID : ARC13041242-20A Methane	0.25	0.010 mg/L	04/16/13	04/16/13
Date Sampled 04/09/13 10:10				
Client ID: **MW-19**				
Lab ID : ARC13041242-23A Methane	27	0.050 mg/L	04/17/13	04/17/13
Date Sampled 04/09/13 12:15				
Client ID: **MW-21**				
Lab ID : ARC13041242-25A Methane	0.62	0.010 mg/L	04/16/13	04/16/13
Date Sampled 04/10/13 10:10				
Client ID: **MW-23**				
Lab ID : ARC13041242-27A Methane	1.9	0.010 mg/L	04/16/13	04/16/13
Date Sampled 04/10/13 13:15				

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Client ID: **MW-24**

Lab ID : ARC13041242-28A Methane	19	0.010 mg/L	04/16/13	04/17/13
Date Sampled 04/10/13 12:30				

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/12/13

Job: WA000804, 2013/KMLT-Harbor Island

Sulfide
SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **A-21** Lab ID : ARC13041242-05A Sulfide Date Sampled 04/10/13 14:15	ND	0.10 mg/L	04/15/13	04/15/13
Client ID: **A-23R** Lab ID : ARC13041242-06A Sulfide Date Sampled 04/08/13 16:15	ND	0.10 mg/L	04/15/13	04/15/13
Client ID: **A-27** Lab ID : ARC13041242-07A Sulfide Date Sampled 04/10/13 12:00	ND	0.10 mg/L	04/15/13	04/15/13
Client ID: **A-28R** Lab ID : ARC13041242-08A Sulfide Date Sampled 04/10/13 11:15	ND	0.10 mg/L	04/15/13	04/15/13
Client ID: **MW-07R** Lab ID : ARC13041242-09A Sulfide Date Sampled 04/09/13 10:20	ND	0.10 mg/L	04/15/13	04/15/13
Client ID: **MW-2** Lab ID : ARC13041242-11A Sulfide Date Sampled 04/09/13 14:15	ND	0.10 mg/L	04/15/13	04/15/13
Client ID: **MW-6** Lab ID : ARC13041242-15A Sulfide Date Sampled 04/09/13 17:00	ND	0.10 mg/L	04/15/13	04/15/13
Client ID: **MW-7** Lab ID : ARC13041242-16A Sulfide Date Sampled 04/09/13 16:00	ND	0.10 mg/L	04/15/13	04/15/13
Client ID: **MW-9** Lab ID : ARC13041242-18A Sulfide Date Sampled 04/10/13 08:40	ND	0.10 mg/L	04/15/13	04/15/13
Client ID: **MW-12R** Lab ID : ARC13041242-19A Sulfide Date Sampled 04/09/13 10:55	ND	0.10 mg/L	04/15/13	04/15/13
Client ID: **MW-14** Lab ID : ARC13041242-20A Sulfide Date Sampled 04/09/13 10:10	ND	0.10 mg/L	04/15/13	04/15/13

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Client ID: **MW-19**					
Lab ID : ARC13041242-23A	Sulfide	ND	0.10 mg/L	04/15/13	04/15/13
Date Sampled 04/09/13 12:15					
Client ID: **MW-21**					
Lab ID : ARC13041242-25A	Sulfide	ND	0.10 mg/L	04/15/13	04/15/13
Date Sampled 04/10/13 10:10					
Client ID: **MW-23**					
Lab ID : ARC13041242-27A	Sulfide	ND	0.10 mg/L	04/15/13	04/15/13
Date Sampled 04/10/13 13:15					
Client ID: **MW-24**					
Lab ID : ARC13041242-28A	Sulfide	ND	0.10 mg/L	04/15/13	04/15/13
Date Sampled 04/10/13 12:30					
Client ID: **SH-02R**					
Lab ID : ARC13041242-30A	Sulfide	ND	0.10 mg/L	04/15/13	04/15/13
Date Sampled 04/09/13 12:00					

ND = Not Detected

ACCREDITED DoD ELAP

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

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NELAP ACCREDITED TNI LABORATORY

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Report Date

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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101
Job: WA000804, 2013/KMLT-Harbor Island

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

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 :	**A-5**						
Lab ID :	ARC13041242-01A	TPH-P (GRO)	0.46		0.25 mg/L	04/16/13	04/16/13
Date Sampled	04/10/13 15:55	Surr: 1,2-Dichloroethane-d4	76		(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	102		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	90		(70-130) %REC	04/16/13	04/16/13
Client ID :	**A-8**						
Lab ID :	ARC13041242-02A	TPH-E (DRO), Silica Gel	ND		0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/10/13 15:30	TPH-E (ORO), Silica Gel	ND		0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	82		(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	0.25		0.25 mg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	63	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	104		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	90		(70-130) %REC	04/16/13	04/16/13
Client ID :	**A-10**						
Lab ID :	ARC13041242-03A	TPH-E (DRO), Silica Gel	0.36		0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/10/13 16:20	TPH-E (ORO), Silica Gel	ND		0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	83		(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND		0.25 mg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	66	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	108		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	87		(70-130) %REC	04/16/13	04/16/13
Client ID :	**A-14R**						
Lab ID :	ARC13041242-04A	TPH-E (DRO), Silica Gel	ND		0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/10/13 15:00	TPH-E (ORO), Silica Gel	ND		0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	82		(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND		0.25 mg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	65	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	105		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	106		(70-130) %REC	04/16/13	04/16/13
Client ID :	**A-21**						
Lab ID :	ARC13041242-05A	TPH-P (GRO)	0.58		0.25 mg/L	04/16/13	04/16/13
Date Sampled	04/10/13 14:15	Surr: 1,2-Dichloroethane-d4	64	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	97		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	90		(70-130) %REC	04/16/13	04/16/13
Client ID :	**A-23R**						
Lab ID :	ARC13041242-06A	TPH-P (GRO)	ND		0.25 mg/L	04/16/13	04/16/13
Date Sampled	04/08/13 16:15	Surr: 1,2-Dichloroethane-d4	64	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	104		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	102		(70-130) %REC	04/16/13	04/16/13

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Client ID :	**A-27**						
Lab ID :	ARC13041242-07A	TPH-P (GRO)	1.3		0.25 mg/L	04/16/13	04/16/13
Date Sampled	04/10/13 12:00	Surr: 1,2-Dichloroethane-d4	68	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	96		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	04/16/13	04/16/13
Client ID :	**A-28R**						
Lab ID :	ARC13041242-08A	TPH-P (GRO)	3.2		0.25 mg/L	04/16/13	04/16/13
Date Sampled	04/10/13 11:15	Surr: 1,2-Dichloroethane-d4	116		(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	98		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	86		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-07R**						
Lab ID :	ARC13041242-09A	TPH-E (DRO), Silica Gel	ND		0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/09/13 10:20	TPH-E (ORO), Silica Gel	ND		0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	86		(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND		0.25 mg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	66	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	104		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	101		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-1**						
Lab ID :	ARC13041242-10A	TPH-E (DRO), Silica Gel	ND		0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/09/13 12:35	TPH-E (ORO), Silica Gel	ND		0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	74		(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND		0.25 mg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	83		(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	106		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	94		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-2**						
Lab ID :	ARC13041242-11A	TPH-E (DRO), Silica Gel	ND		0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/09/13 14:15	TPH-E (ORO), Silica Gel	ND		0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	76		(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND		0.25 mg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	67	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	105		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	94		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-3**						
Lab ID :	ARC13041242-12A	TPH-E (DRO), Silica Gel	ND		0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/09/13 14:05	TPH-E (ORO), Silica Gel	ND		0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	87		(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND		0.25 mg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	68	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	109		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-4**						
Lab ID :	ARC13041242-13A	TPH-E (DRO), Silica Gel	0.92		0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/09/13 11:30	TPH-E (ORO), Silica Gel	ND		0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	88		(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND	O	0.50 mg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	84		(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	104		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	88		(70-130) %REC	04/16/13	04/16/13

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Client ID :	**MW-5**						
Lab ID :	ARC13041242-14A	TPH-E (DRO), Silica Gel	ND		0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/09/13 11:10	TPH-E (ORO), Silica Gel	ND		0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	90		(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND		0.25 mg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	120		(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	105		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-6**						
Lab ID :	ARC13041242-15A	TPH-P (GRO)	ND		0.25 mg/L	04/16/13	04/16/13
Date Sampled	04/09/13 17:00	Surr: 1,2-Dichloroethane-d4	65	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	110		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-7**						
Lab ID :	ARC13041242-16A	TPH-P (GRO)	8.1		1.0 mg/L	04/16/13	04/16/13
Date Sampled	04/09/13 16:00	Surr: 1,2-Dichloroethane-d4	115		(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	100		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	88		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-8**						
Lab ID :	ARC13041242-17A	TPH-E (DRO), Silica Gel	ND		0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/10/13 09:20	TPH-E (ORO), Silica Gel	ND		0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	84		(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND		0.25 mg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	84		(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	104		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	101		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-9**						
Lab ID :	ARC13041242-18A	TPH-P (GRO)	ND		0.25 mg/L	04/16/13	04/16/13
Date Sampled	04/10/13 08:40	Surr: 1,2-Dichloroethane-d4	68	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	102		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	90		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-12R**						
Lab ID :	ARC13041242-19A	TPH-E (DRO), Silica Gel	ND		0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/09/13 10:55	TPH-E (ORO), Silica Gel	ND		0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	83		(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND		0.25 mg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	63	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	104		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	92		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-14**						
Lab ID :	ARC13041242-20A	TPH-P (GRO)	ND		0.25 mg/L	04/16/13	04/16/13
Date Sampled	04/09/13 10:10	Surr: 1,2-Dichloroethane-d4	62	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	106		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-16**						
Lab ID :	ARC13041242-21A	TPH-E (DRO), Silica Gel	ND		0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/09/13 16:00	TPH-E (ORO), Silica Gel	ND		0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	91		(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND		0.25 mg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	96		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	100		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	04/18/13	04/18/13

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Client ID :	**MW-18**					
Lab ID :	ARC13041242-22A	TPH-P (GRO)	ND	0.25 mg/L	04/18/13	04/18/13
Date Sampled	04/09/13 14:40	Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	99	(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	04/18/13	04/18/13
Client ID :	**MW-19**					
Lab ID :	ARC13041242-23A	TPH-P (GRO)	6.9	0.50 mg/L	04/18/13	04/18/13
Date Sampled	04/09/13 12:15	Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	101	(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	04/18/13	04/18/13
Client ID :	**MW-20**					
Lab ID :	ARC13041242-24A	TPH-E (DRO), Silica Gel	ND	0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/09/13 15:00	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	70	(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND	0.25 mg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	100	(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	04/18/13	04/18/13
Client ID :	**MW-21**					
Lab ID :	ARC13041242-25A	TPH-E (DRO), Silica Gel	0.25	0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/10/13 10:10	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	65	(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND	0.25 mg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	100	(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	04/18/13	04/18/13
Client ID :	**MW-22**					
Lab ID :	ARC13041242-26A	TPH-E (DRO), Silica Gel	0.97	0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/09/13 15:25	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	87	(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND	0.25 mg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	101	(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	04/18/13	04/18/13
Client ID :	**MW-23**					
Lab ID :	ARC13041242-27A	TPH-P (GRO)	0.54	0.25 mg/L	04/18/13	04/18/13
Date Sampled	04/10/13 13:15	Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	99	(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	04/18/13	04/18/13
Client ID :	**MW-24**					
Lab ID :	ARC13041242-28A	TPH-P (GRO)	23	2.0 mg/L	04/18/13	04/18/13
Date Sampled	04/10/13 12:30	Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	99	(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	04/18/13	04/18/13
Client ID :	**MW-25**					
Lab ID :	ARC13041242-29A	TPH-E (DRO), Silica Gel	ND	0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/10/13 16:50	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	54	(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND	0.25 mg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	99	(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	04/18/13	04/18/13

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Client ID :	**SH-02R**					
Lab ID :	ARC13041242-30A	TPH-E (DRO), Silica Gel	ND	0.25 mg/L	04/12/13	04/15/13
Date Sampled	04/09/13 12:00	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/12/13	04/15/13
		Surr: Nonane, Silica Gel	75	(53-145) %REC	04/12/13	04/15/13
		TPH-P (GRO)	ND	0.25 mg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	98	(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	04/18/13	04/18/13
Client ID :	**BD-1**					
Lab ID :	ARC13041242-31A	TPH-P (GRO)	5.7	1.0 mg/L	04/18/13	04/18/13
Date Sampled	04/09/13 00:00	Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	99	(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	04/18/13	04/18/13
Client ID :	**BD-2**					
Lab ID :	ARC13041242-32A	TPH-P (GRO)	20	2.0 mg/L	04/18/13	04/18/13
Date Sampled	04/10/13 00:00	Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	97	(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	04/18/13	04/18/13
Client ID :	**DWS-1**					
Lab ID :	ARC13041242-34A	TPH-P (GRO)	96,000	4,000 mg/Kg	04/11/13	04/15/13
Date Sampled	04/10/13 17:10	Surr: 1,2-Dichloroethane-d4	92	(70-130) %REC	04/11/13	04/15/13
		Surr: Toluene-d8	104	(70-130) %REC	04/11/13	04/15/13
		Surr: 4-Bromofluorobenzene	127	(70-130) %REC	04/11/13	04/15/13
Client ID :	**Trip Blank**					
Lab ID :	ARC13041242-35A	TPH-P (GRO)	ND	0.25 mg/L	04/18/13	04/18/13
Date Sampled	04/10/13 00:00	Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	102	(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	04/18/13	04/18/13

Diesel Range Organics (DRO) C13-C22
Gasoline Range Organics (GRO) C4-C13
O = Reporting Limits were increased due to sample foaming.
S54 = Surrogate recovery was below laboratory acceptance limits.
This replaces the report originally signed 4/25/13, due to a change in analyte list, due to lab error.
Sample results were calculated on a wet weight basis.
ND = Not Detected

ACLASS ACCREDITED DoD ELAP

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 an any way.

NELAP ACCREDITED TNI LABORATORY

4/30/13
Report Date

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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/12/13

Job: WA000804, 2013/KMLT-Harbor Island

Volatile Organic Compounds (VOCs) EPA Method SW8260B

		Parameter	Concentration		Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**A-5**						
Lab ID :	ARC13041242-01A	Benzene	14		1.0 µg/L	04/16/13	04/16/13
Date Sampled	04/10/13 15:55	Toluene	ND	O	1.0 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND	O	1.0 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND	O	1.0 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	76		(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	102		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	90		(70-130) %REC	04/16/13	04/16/13
Client ID :	**A-8**						
Lab ID :	ARC13041242-02A	Benzene	ND	O	1.0 µg/L	04/16/13	04/16/13
Date Sampled	04/10/13 15:30	Toluene	ND	O	1.0 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND	O	1.0 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND	O	1.0 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	63	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	104		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	90		(70-130) %REC	04/16/13	04/16/13
Client ID :	**A-10**						
Lab ID :	ARC13041242-03A	Benzene	ND		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/10/13 16:20	Toluene	ND		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	66	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	108		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	87		(70-130) %REC	04/16/13	04/16/13
Client ID :	**A-14R**						
Lab ID :	ARC13041242-04A	Benzene	ND		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/10/13 15:00	Toluene	ND		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	65	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	105		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	106		(70-130) %REC	04/16/13	04/16/13
Client ID :	**A-21**						
Lab ID :	ARC13041242-05A	Benzene	ND		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/10/13 14:15	Toluene	ND		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	64	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	97		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	90		(70-130) %REC	04/16/13	04/16/13

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Client ID :	**A-23R**						
Lab ID :	ARC13041242-06A	Benzene	ND		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/08/13 16:15	Toluene	ND		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	64	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	104		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	102		(70-130) %REC	04/16/13	04/16/13
Client ID :	**A-27**						
Lab ID :	ARC13041242-07A	Benzene	35		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/10/13 12:00	Toluene	1.8		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	41		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	5.3		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	68	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	96		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	04/16/13	04/16/13
Client ID :	**A-28R**						
Lab ID :	ARC13041242-08A	Benzene	35		1.0 µg/L	04/16/13	04/16/13
Date Sampled	04/10/13 11:15	Toluene	1.3		1.0 µg/L	04/16/13	04/16/13
		Ethylbenzene	30		1.0 µg/L	04/16/13	04/16/13
		Xylenes, Total	4.2		1.0 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	116		(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	98		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	86		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-07R**						
Lab ID :	ARC13041242-09A	Benzene	ND		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/09/13 10:20	Toluene	ND		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	66	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	104		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	101		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-1**						
Lab ID :	ARC13041242-10A	Benzene	ND		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/09/13 12:35	Toluene	ND		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	83		(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	106		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	94		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-2**						
Lab ID :	ARC13041242-11A	Benzene	ND		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/09/13 14:15	Toluene	ND		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	67	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	105		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	94		(70-130) %REC	04/16/13	04/16/13

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Client ID :	**MW-3**						
Lab ID :	ARC13041242-12A	Benzene	ND		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/09/13 14:05	Toluene	ND		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	68	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	109		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-4**						
Lab ID :	ARC13041242-13A	Benzene	ND	V	2.5 µg/L	04/16/13	04/16/13
Date Sampled	04/09/13 11:30	Toluene	ND	V	2.5 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND	V	2.5 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND	V	2.5 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	84		(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	104		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	88		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-5**						
Lab ID :	ARC13041242-14A	Benzene	ND		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/09/13 11:10	Toluene	ND		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	120		(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	105		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-6**						
Lab ID :	ARC13041242-15A	Benzene	ND		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/09/13 17:00	Toluene	ND		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	65	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	110		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-7**						
Lab ID :	ARC13041242-16A	Benzene	ND	V	5.0 µg/L	04/16/13	04/16/13
Date Sampled	04/09/13 16:00	Toluene	70		5.0 µg/L	04/16/13	04/16/13
		Ethylbenzene	250		5.0 µg/L	04/16/13	04/16/13
		Xylenes, Total	1,400		5.0 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	115		(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	100		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	88		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-8**						
Lab ID :	ARC13041242-17A	Benzene	ND		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/10/13 09:20	Toluene	ND		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	84		(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	104		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	101		(70-130) %REC	04/16/13	04/16/13

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Client ID :	**MW-9**						
Lab ID :	ARC13041242-18A	Benzene	ND		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/10/13 08:40	Toluene	ND		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	68	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	102		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	90		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-12R**						
Lab ID :	ARC13041242-19A	Benzene	ND		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/09/13 10:55	Toluene	ND		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	63	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	104		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	92		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-14**						
Lab ID :	ARC13041242-20A	Benzene	ND		0.50 µg/L	04/16/13	04/16/13
Date Sampled	04/09/13 10:10	Toluene	ND		0.50 µg/L	04/16/13	04/16/13
		Ethylbenzene	ND		0.50 µg/L	04/16/13	04/16/13
		Xylenes, Total	ND		0.50 µg/L	04/16/13	04/16/13
		Surr: 1,2-Dichloroethane-d4	62	S54	(70-130) %REC	04/16/13	04/16/13
		Surr: Toluene-d8	106		(70-130) %REC	04/16/13	04/16/13
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	04/16/13	04/16/13
Client ID :	**MW-16**						
Lab ID :	ARC13041242-21A	Benzene	ND		0.50 µg/L	04/18/13	04/18/13
Date Sampled	04/09/13 16:00	Toluene	ND		0.50 µg/L	04/18/13	04/18/13
		Ethylbenzene	ND		0.50 µg/L	04/18/13	04/18/13
		Xylenes, Total	ND		0.50 µg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	96		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	100		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	04/18/13	04/18/13
Client ID :	**MW-18**						
Lab ID :	ARC13041242-22A	Benzene	ND		0.50 µg/L	04/18/13	04/18/13
Date Sampled	04/09/13 14:40	Toluene	ND		0.50 µg/L	04/18/13	04/18/13
		Ethylbenzene	ND		0.50 µg/L	04/18/13	04/18/13
		Xylenes, Total	ND		0.50 µg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	96		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	99		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	04/18/13	04/18/13
Client ID :	**MW-19**						
Lab ID :	ARC13041242-23A	Benzene	29		2.5 µg/L	04/18/13	04/18/13
Date Sampled	04/09/13 12:15	Toluene	150		2.5 µg/L	04/18/13	04/18/13
		Ethylbenzene	320		2.5 µg/L	04/18/13	04/18/13
		Xylenes, Total	570		2.5 µg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	96		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	101		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	04/18/13	04/18/13

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Client ID :	**MW-20**						
Lab ID :	ARC13041242-24A	Benzene	ND		0.50 µg/L	04/18/13	04/18/13
Date Sampled	04/09/13 15:00	Toluene	ND		0.50 µg/L	04/18/13	04/18/13
		Ethylbenzene	ND		0.50 µg/L	04/18/13	04/18/13
		Xylenes, Total	ND		0.50 µg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	98		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	100		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	92		(70-130) %REC	04/18/13	04/18/13
Client ID :	**MW-21**						
Lab ID :	ARC13041242-25A	Benzene	ND		0.50 µg/L	04/18/13	04/18/13
Date Sampled	04/10/13 10:10	Toluene	ND		0.50 µg/L	04/18/13	04/18/13
		Ethylbenzene	ND		0.50 µg/L	04/18/13	04/18/13
		Xylenes, Total	ND		0.50 µg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	100		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	92		(70-130) %REC	04/18/13	04/18/13
Client ID :	**MW-22**						
Lab ID :	ARC13041242-26A	Benzene	ND	O	1.0 µg/L	04/18/13	04/18/13
Date Sampled	04/09/13 15:25	Toluene	ND	O	1.0 µg/L	04/18/13	04/18/13
		Ethylbenzene	ND	O	1.0 µg/L	04/18/13	04/18/13
		Xylenes, Total	ND	O	1.0 µg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	94		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	101		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	94		(70-130) %REC	04/18/13	04/18/13
Client ID :	**MW-23**						
Lab ID :	ARC13041242-27A	Benzene	15		1.0 µg/L	04/18/13	04/18/13
Date Sampled	04/10/13 13:15	Toluene	ND	O	1.0 µg/L	04/18/13	04/18/13
		Ethylbenzene	15		1.0 µg/L	04/18/13	04/18/13
		Xylenes, Total	1.3		1.0 µg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	99		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	96		(70-130) %REC	04/18/13	04/18/13
Client ID :	**MW-24**						
Lab ID :	ARC13041242-28A	Benzene	1,200		10 µg/L	04/18/13	04/18/13
Date Sampled	04/10/13 12:30	Toluene	61		10 µg/L	04/18/13	04/18/13
		Ethylbenzene	1,700		10 µg/L	04/18/13	04/18/13
		Xylenes, Total	4,100		10 µg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	95		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	99		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	04/18/13	04/18/13
Client ID :	**MW-25**						
Lab ID :	ARC13041242-29A	Benzene	1.3		0.50 µg/L	04/18/13	04/18/13
Date Sampled	04/10/13 16:50	Toluene	ND		0.50 µg/L	04/18/13	04/18/13
		Ethylbenzene	ND		0.50 µg/L	04/18/13	04/18/13
		Xylenes, Total	ND		0.50 µg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	96		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	99		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	93		(70-130) %REC	04/18/13	04/18/13

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Client ID :	**SH-02R**						
Lab ID :	ARC13041242-30A	Benzene	ND		0.50 µg/L	04/18/13	04/18/13
Date Sampled	04/09/13 12:00	Toluene	ND		0.50 µg/L	04/18/13	04/18/13
		Ethylbenzene	ND		0.50 µg/L	04/18/13	04/18/13
		Xylenes, Total	ND		0.50 µg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	93		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	98		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	92		(70-130) %REC	04/18/13	04/18/13
Client ID :	**BD-1**						
Lab ID :	ARC13041242-31A	Benzene	7.1		5.0 µg/L	04/18/13	04/18/13
Date Sampled	04/09/13 00:00	Toluene	72		5.0 µg/L	04/18/13	04/18/13
		Ethylbenzene	240		5.0 µg/L	04/18/13	04/18/13
		Xylenes, Total	1,200		5.0 µg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	95		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	99		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	04/18/13	04/18/13
Client ID :	**BD-2**						
Lab ID :	ARC13041242-32A	Benzene	1,100		10 µg/L	04/18/13	04/18/13
Date Sampled	04/10/13 00:00	Toluene	48		10 µg/L	04/18/13	04/18/13
		Ethylbenzene	220		10 µg/L	04/18/13	04/18/13
		Xylenes, Total	3,800		10 µg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	97		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	04/18/13	04/18/13
Client ID :	**Drum Composite**						
Lab ID :	ARC13041242-33A	Benzene	65		50 µg/L	04/18/13	04/18/13
Date Sampled	04/10/13 17:00	Toluene	ND	O	50 µg/L	04/18/13	04/18/13
		Ethylbenzene	95		50 µg/L	04/18/13	04/18/13
		Xylenes, Total	230		50 µg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	93		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	100		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	96		(70-130) %REC	04/18/13	04/18/13
Client ID :	**DWS-1**						
Lab ID :	ARC13041242-34A	Benzene	ND	V	20,000 µg/Kg	04/11/13	04/15/13
Date Sampled	04/10/13 17:10	Toluene	ND	V	20,000 µg/Kg	04/11/13	04/15/13
		Ethylbenzene	ND	V	20,000 µg/Kg	04/11/13	04/15/13
		Xylenes, Total	67,000		20,000 µg/Kg	04/11/13	04/15/13
		Surr: 1,2-Dichloroethane-d4	92		(70-130) %REC	04/11/13	04/15/13
		Surr: Toluene-d8	104		(70-130) %REC	04/11/13	04/15/13
		Surr: 4-Bromofluorobenzene	127		(70-130) %REC	04/11/13	04/15/13
Client ID :	**Trip Blank**						
Lab ID :	ARC13041242-35A	Benzene	ND		0.50 µg/L	04/18/13	04/18/13
Date Sampled	04/10/13 00:00	Toluene	ND		0.50 µg/L	04/18/13	04/18/13
		Ethylbenzene	ND		0.50 µg/L	04/18/13	04/18/13
		Xylenes, Total	ND		0.50 µg/L	04/18/13	04/18/13
		Surr: 1,2-Dichloroethane-d4	94		(70-130) %REC	04/18/13	04/18/13
		Surr: Toluene-d8	102		(70-130) %REC	04/18/13	04/18/13
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	04/18/13	04/18/13

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O = Reporting Limits were increased due to sample foaming.

S54 = Surrogate recovery was below laboratory acceptance limits.

This replaces the report signed 4/25/13. Sample -34A has been added, due to lab error.

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

Sample results were calculated on a wet weight basis.

ND = Not Detected

ACCREDITED DoD ELAP

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

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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 an any way.

NELAP ACCREDITED LABORATORY TNI

4/26/13

Report Date

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VOC Sample Preservation Report

Work Order: ARC13041242 **Job:** WA000804, 2013/KMLT-Harbor Island

Alpha's Sample ID	Client's Sample ID	Matrix	pH
13041242-01A	A-5	Aqueous	2
13041242-02A	A-8	Aqueous	2
13041242-03A	A-10	Aqueous	2
13041242-04A	A-14R	Aqueous	2
13041242-05A	A-21	Aqueous	2
13041242-06A	A-23R	Aqueous	2
13041242-07A	A-27	Aqueous	2
13041242-08A	A-28R	Aqueous	2
13041242-09A	MW-07R	Aqueous	2
13041242-10A	MW-1	Aqueous	2
13041242-11A	MW-2	Aqueous	2
13041242-12A	MW-3	Aqueous	2
13041242-13A	MW-4	Aqueous	2
13041242-14A	MW-5	Aqueous	2
13041242-15A	MW-6	Aqueous	2
13041242-16A	MW-7	Aqueous	2
13041242-17A	MW-8	Aqueous	2
13041242-18A	MW-9	Aqueous	2
13041242-19A	MW-12R	Aqueous	2
13041242-20A	MW-14	Aqueous	2
13041242-21A	MW-16	Aqueous	2
13041242-22A	MW-18	Aqueous	2
13041242-23A	MW-19	Aqueous	2
13041242-24A	MW-20	Aqueous	2
13041242-25A	MW-21	Aqueous	2
13041242-26A	MW-22	Aqueous	2
13041242-27A	MW-23	Aqueous	2
13041242-28A	MW-24	Aqueous	2
13041242-29A	MW-25	Aqueous	2
13041242-30A	SH-02R	Aqueous	2
13041242-31A	BD-1	Aqueous	2
13041242-32A	BD-2	Aqueous	2
13041242-33A	Drum Composite	Aqueous	2
13041242-35A	Trip Blank	Aqueous	2

4/25/13

Report Date

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Date: *18-Apr-13*

QC Summary Report

Work Order: 13041242

Method Blank

Type: **MBLK** Test Code: **EPA Method 300.0**

File ID: **25** Batch ID: **30728** Analysis Date: **04/12/2013 12:06**

Sample ID: **MB-30728** Units : **mg/L** Run ID: **IC_1_130412A** Prep Date: **04/12/2013 11:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	ND	0.25								
Sulfate (SO4)	ND	0.5								

Laboratory Fortified Blank

Type: **LFB** Test Code: **EPA Method 300.0**

File ID: **29** Batch ID: **30728** Analysis Date: **04/12/2013 13:20**

Sample ID: **LFB-30728** Units : **mg/L** Run ID: **IC_1_130412A** Prep Date: **04/12/2013 11:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	5.21	0.25	5		104	90	110			
Sulfate (SO4)	103	0.5	100		103	90	110			

Sample Matrix Spike

Type: **LFM** Test Code: **EPA Method 300.0**

File ID: **31** Batch ID: **30728** Analysis Date: **04/12/2013 13:57**

Sample ID: **13041242-05ALFM** Units : **mg/L** Run ID: **IC_1_130412A** Prep Date: **04/12/2013 11:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	25.4	0.63	25	0	102	80	120			
Sulfate (SO4)	1260	1.3	500	919.1	68	80	120			M2

Sample Matrix Spike Duplicate

Type: **LFMD** Test Code: **EPA Method 300.0**

File ID: **32** Batch ID: **30728** Analysis Date: **04/12/2013 14:16**

Sample ID: **13041242-05ALFMD** Units : **mg/L** Run ID: **IC_1_130412A** Prep Date: **04/12/2013 11:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	25.5	0.63	25	0	102	80	120	25.4	0.4(15)	
Sulfate (SO4)	1260	1.3	500	919.1	69	80	120	1259	0.4(15)	M2

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.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

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Date: *25-Apr-13*

QC Summary Report

Work Order: 13041242

Method Blank

Type **MBLK** Test Code: **SM3500-Fe B**

File ID: Batch ID: **W0416FR** Analysis Date: **04/16/2013 00:00**

Sample ID: **MBLK W0416FR** Units : **mg/L** Run ID: **WETLAB_130416B** Prep Date: **04/16/2013 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	ND	0.05								

Laboratory Control Spike

Type **LCS** Test Code: **SM3500-Fe B**

File ID: Batch ID: **W0416FR** Analysis Date: **04/16/2013 00:00**

Sample ID: **LCS W0416FR** Units : **mg/L** Run ID: **WETLAB_130416B** Prep Date: **04/16/2013 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.53	0.05	1.5		102	70	130			

Sample Matrix Spike

Type **MS** Test Code: **SM3500-Fe B**

File ID: Batch ID: **W0416FR** Analysis Date: **04/16/2013 00:00**

Sample ID: **13041242-15AMS** Units : **mg/L** Run ID: **WETLAB_130416B** Prep Date: **04/16/2013 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.56	0.05	1.5	0	104	66	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **SM3500-Fe B**

File ID: Batch ID: **W0416FR** Analysis Date: **04/16/2013 00:00**

Sample ID: **13041242-15AMSD** Units : **mg/L** Run ID: **WETLAB_130416B** Prep Date: **04/16/2013 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.57	0.05	1.5	0	105	66	130	1.556	1.0(20)	

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: *25-Apr-13*

QC Summary Report

Work Order: 13041242

Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **042213.B\045_M1.D** Batch ID: **30752** Analysis Date: **04/22/2013 20:34**

Sample ID: **MB-30752** Units : **mg/L** Run ID: **ICP/MS_130422C** Prep Date: **04/17/2013 12:22**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	ND	0.005								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **042213.B\116_M.D** Batch ID: **30752** Analysis Date: **04/23/2013 09:34**

Sample ID: **LCS-30752** Units : **mg/L** Run ID: **ICP/MS_130422C** Prep Date: **04/17/2013 12:22**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.256	0.005	0.25		102	80	120			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **042213.B\118_M.D** Batch ID: **30752** Analysis Date: **04/23/2013 09:45**

Sample ID: **13041242-04AMS** Units : **mg/L** Run ID: **ICP/MS_130422C** Prep Date: **04/17/2013 12:22**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.214	0.005	0.25	0	86	75	125			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **042213.B\119_M.D** Batch ID: **30752** Analysis Date: **04/23/2013 09:51**

Sample ID: **13041242-04AMSD** Units : **mg/L** Run ID: **ICP/MS_130422C** Prep Date: **04/17/2013 12:22**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.214	0.005	0.25	0	86	75	125	0.2139	0.0(20)	

Comments:

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Date: *17-Apr-13*

QC Summary Report

Work Order: 13041242

Method Blank

Type: **MBLK** Test Code: **EPA Method 200.8**

File ID: **041613.B\045_M.D** Batch ID: **30744** Analysis Date: **04/16/2013 18:13**

Sample ID: **MB-30744** Units : **mg/L** Run ID: **ICP/MS_130416D** Prep Date: **04/16/2013 12:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb), Dissolved	ND	0.005								

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method 200.8**

File ID: **041613.B\047_M.D** Batch ID: **30744** Analysis Date: **04/16/2013 18:24**

Sample ID: **LCS-30744** Units : **mg/L** Run ID: **ICP/MS_130416D** Prep Date: **04/16/2013 12:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb), Dissolved	0.0507	0.005	0.05		101	80	120			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method 200.8**

File ID: **041613.B\049_M.D** Batch ID: **30744** Analysis Date: **04/16/2013 18:36**

Sample ID: **13041202-01AMS** Units : **mg/L** Run ID: **ICP/MS_130416D** Prep Date: **04/16/2013 12:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb), Dissolved	0.0532	0.005	0.05	0	106	75	125			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method 200.8**

File ID: **041613.B\050_M.D** Batch ID: **30744** Analysis Date: **04/16/2013 18:41**

Sample ID: **13041202-01AMSD** Units : **mg/L** Run ID: **ICP/MS_130416D** Prep Date: **04/16/2013 12:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb), Dissolved	0.0491	0.005	0.05	0	98	75	125	0.05318	8.0(20)	

Comments:

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Date: 17-Apr-13

QC Summary Report

Work Order: 13041242

Method Blank

Type: **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **041613.B\031_M.D** Batch ID: **30738** Analysis Date: **04/16/2013 16:43**

Sample ID: **MB-30738** Units : **mg/Kg** Run ID: **ICP/MS_130416C** Prep Date: **04/15/2013 15:32**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Beryllium (Be)	ND	1								
Vanadium (V)	ND	1								
Chromium (Cr)	ND	1								
Cobalt (Co)	ND	1								
Nickel (Ni)	ND	2								
Copper (Cu)	ND	2								
Zinc (Zn)	ND	20								
Arsenic (As)	ND	1								
Selenium (Se)	ND	1								
Molybdenum (Mo)	ND	1								
Silver (Ag)	ND	1								
Cadmium (Cd)	ND	1								
Antimony (Sb)	ND	1								
Barium (Ba)	ND	1								
Mercury (Hg)	ND	0.2								
Thallium (Tl)	ND	1								
Lead (Pb)	ND	1								

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **041613.B\033_M.D** Batch ID: **30738** Analysis Date: **04/16/2013 16:54**

Sample ID: **LCS-30738** Units : **mg/Kg** Run ID: **ICP/MS_130416C** Prep Date: **04/15/2013 15:32**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Beryllium (Be)	25.9	1	25		104	80	120			
Vanadium (V)	22.8	1	25		91	80	120			
Chromium (Cr)	25.3	1	25		101	80	120			
Cobalt (Co)	23.1	1	25		92	80	120			
Nickel (Ni)	24.5	2	25		98	80	120			
Copper (Cu)	24.4	2	25		98	80	120			
Zinc (Zn)	24.5	20	25		98	80	120			
Arsenic (As)	25.1	1	25		101	80	120			
Selenium (Se)	23.7	1	25		95	80	120			
Molybdenum (Mo)	23.6	1	25		95	80	120			
Silver (Ag)	23.3	1	25		93	80	120			
Cadmium (Cd)	23.8	1	25		95	80	120			
Antimony (Sb)	22.9	1	25		91	80	120			
Barium (Ba)	240	1	250		96	80	120			
Mercury (Hg)	0.491	0.2	0.5		98	80	120			
Thallium (Tl)	19.6	1	25		79	80	120			L50
Lead (Pb)	24.4	1	25		97	80	120			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **041613.B\035_M.D** Batch ID: **30738** Analysis Date: **04/16/2013 17:06**

Sample ID: **13041242-34AMS** Units : **mg/Kg** Run ID: **ICP/MS_130416C** Prep Date: **04/15/2013 15:32**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Beryllium (Be)	56.6	1	50	0	113	75	125			
Vanadium (V)	50.2	1	50	1.382	98	75	125			
Chromium (Cr)	53.9	1	50	1.532	105	75	125			
Cobalt (Co)	51.9	1	50	0	104	75	125			
Nickel (Ni)	55.7	2	50	0	111	75	125			
Copper (Cu)	58.2	2	50	4.404	108	75	125			
Zinc (Zn)	58.4	20	50	0	117	75	125			
Arsenic (As)	56.3	1	50	2.798	107	75	125			
Selenium (Se)	52.6	1	50	0	105	75	125			
Molybdenum (Mo)	53.6	1	50	0	107	75	125			
Silver (Ag)	51.1	1	50	0	102	75	125			
Cadmium (Cd)	52.8	1	50	0	106	75	125			
Antimony (Sb)	53.5	1	50	0	107	75	125			
Barium (Ba)	534	1	500	0	107	75	125			
Mercury (Hg)	1.1	0.2	1	0	110	75	125			
Thallium (Tl)	47	1	50	0	94	75	125			
Lead (Pb)	157	1	50	80.81	152	75	125			M1

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Date: *17-Apr-13*

QC Summary Report

Work Order: 13041242

Sample Matrix Spike Duplicate Type: **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **041613.B\036_M.D** Batch ID: **30738** Analysis Date: **04/16/2013 17:11**

Sample ID: **13041242-34AMSD** Units : **mg/Kg** Run ID: **ICP/MS_130416C** Prep Date: **04/15/2013 15:32**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Beryllium (Be)	56.2	1	50	0	112	75	125	56.61	0.8(20)	
Vanadium (V)	47.9	1	50	1.382	93	75	125	50.18	4.7(20)	
Chromium (Cr)	53.7	1	50	1.532	104	75	125	53.91	0.3(20)	
Cobalt (Co)	51.4	1	50	0	103	75	125	51.9	1.0(20)	
Nickel (Ni)	55.2	2	50	0	110	75	125	55.66	0.8(20)	
Copper (Cu)	56.6	2	50	4.404	104	75	125	58.2	2.8(20)	
Zinc (Zn)	55	20	50	0	110	75	125	58.4	5.9(20)	
Arsenic (As)	56.4	1	50	2.798	107	75	125	56.29	0.2(20)	
Selenium (Se)	53.1	1	50	0	106	75	125	52.61	0.9(20)	
Molybdenum (Mo)	51	1	50	0	102	75	125	53.55	4.9(20)	
Silver (Ag)	49.4	1	50	0	99	75	125	51.1	3.4(20)	
Cadmium (Cd)	50.9	1	50	0	102	75	125	52.84	3.8(20)	
Antimony (Sb)	51	1	50	0	102	75	125	53.47	4.7(20)	
Barium (Ba)	536	1	500	0	107	75	125	534.1	0.3(20)	
Mercury (Hg)	1.05	0.2	1	0	105	75	125	1.1	4.4(20)	
Thallium (Tl)	47.2	1	50	0	94	75	125	47.04	0.2(20)	
Lead (Pb)	176	1	50	80.81	191	75	125	156.6	11.7(20)	M1

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.

L50 = Analyte recovery was below acceptance limits for the LCS, but was acceptable in the MS/MSD.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

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Date: *25-Apr-13*

QC Summary Report

Work Order: 13041242

Method Blank

Type **MBLK** Test Code: **Modified Method RSK-175 GC/FID**

File ID: Batch ID: **30748** Analysis Date: **04/16/2013 16:52**

Sample ID: **MBLK-30748** Units : **mg/L** Run ID: **FID_6_130416A** Prep Date: **04/16/2013 15:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	ND	0.01								

Laboratory Control Spike

Type **LCS** Test Code: **Modified Method RSK-175 GC/FID**

File ID: Batch ID: **30748** Analysis Date: **04/16/2013 17:11**

Sample ID: **LCS-30748** Units : **mg/L** Run ID: **FID_6_130416A** Prep Date: **04/16/2013 15:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	0.519	0.01	0.452		115	54	138			

Sample Matrix Spike

Type **MS** Test Code: **Modified Method RSK-175 GC/FID**

File ID: Batch ID: **30748** Analysis Date: **04/16/2013 18:44**

Sample ID: **13041040-02AMS** Units : **mg/L** Run ID: **FID_6_130416A** Prep Date: **04/16/2013 15:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	2.06	0.01	1.81	0	114	43	138			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **Modified Method RSK-175 GC/FID**

File ID: Batch ID: **30748** Analysis Date: **04/16/2013 19:03**

Sample ID: **13041040-02AMSD** Units : **mg/L** Run ID: **FID_6_130416A** Prep Date: **04/16/2013 15:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	2.11	0.01	1.81	0	116	43	138	2.056	2.5(27)	

Comments:

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Date: *16-Apr-13*

QC Summary Report

Work Order: 13041242

Method Blank

Type: **MBLK** Test Code: **SM4500-S D**

File ID: Batch ID: **W0415SU** Analysis Date: **04/15/2013 00:00**

Sample ID: **MBLK-W0415SU** Units : **mg/L** Run ID: **WETLAB_130415A** Prep Date: **04/15/2013 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	ND	0.1								

Laboratory Control Spike

Type: **LCS** Test Code: **SM4500-S D**

File ID: Batch ID: **W0415SU** Analysis Date: **04/15/2013 00:00**

Sample ID: **LCS-W0415SU** Units : **mg/L** Run ID: **WETLAB_130415A** Prep Date: **04/15/2013 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.874	0.1	1		87	60	140			

Sample Matrix Spike

Type: **MS** Test Code: **SM4500-S D**

File ID: Batch ID: **W0415SU** Analysis Date: **04/15/2013 00:00**

Sample ID: **13041242-05AMS** Units : **mg/L** Run ID: **WETLAB_130415A** Prep Date: **04/15/2013 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.806	0.1	1	0	81	51	144			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **SM4500-S D**

File ID: Batch ID: **W0415SU** Analysis Date: **04/15/2013 00:00**

Sample ID: **13041242-05AMSD** Units : **mg/L** Run ID: **WETLAB_130415A** Prep Date: **04/15/2013 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.81	0.1	1	0	81	51	144	0.806	0.5(20)	

Comments:

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Date: *30-Apr-13*

QC Summary Report

Work Order: 13041242

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C Ext / SG**

File ID: **7A04081410.D** Batch ID: **30730SG** Analysis Date: **04/16/2013 10:04**

Sample ID: **MBLK-30730SG** Units : **mg/L** Run ID: **FID_7_130412B** Prep Date: **04/12/2013 14:33**

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	0.148		0.15		99	53	145			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C Ext / SG**

File ID: **7A04081380.D** Batch ID: **30730SG** Analysis Date: **04/15/2013 09:46**

Sample ID: **LCS-30730SG** Units : **mg/L** Run ID: **FID_7_130412B** Prep Date: **04/12/2013 14:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2.61	0.05	2.5		105	70	130			
Surr: Nonane, Silica Gel	0.132		0.15		88	53	145			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C Ext / SG**

File ID: **7A04081396.D** Batch ID: **30730SG** Analysis Date: **04/15/2013 16:55**

Sample ID: **13041242-14AMS** Units : **mg/L** Run ID: **FID_7_130412B** Prep Date: **04/12/2013 14:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2.7	0.05	2.5	0	108	51	151			
Surr: Nonane, Silica Gel	0.139		0.15		93	53	145			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C Ext / SG**

File ID: **7A04081397.D** Batch ID: **30730SG** Analysis Date: **04/15/2013 17:21**

Sample ID: **13041242-14AMSD** Units : **mg/L** Run ID: **FID_7_130412B** Prep Date: **04/12/2013 14:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2.88	0.05	2.5	0	115	51	151	2.695	6.5(40)	
Surr: Nonane, Silica Gel	0.109		0.15		73	53	145			

Comments:

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Date: *23-Apr-13*

QC Summary Report

Work Order: 13041242

Method Blank

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

File ID: **C:\HPCHEM\MS10\DATA\130411\13041115.D** Batch ID: **MS10S0719B** Analysis Date: **04/11/2013 14:55**

Sample ID: **MBLK MS10S0719B** Units : **mg/Kg** Run ID: **MSD_10_130411A** Prep Date: **04/11/2013 14:55**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	5								
Surr: 1,2-Dichloroethane-d4	0.249		0.2		124	70	130			
Surr: Toluene-d8	0.223		0.2		111	70	130			
Surr: 4-Bromofluorobenzene	0.173		0.2		86	70	130			

Laboratory Control Spike

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

File ID: **C:\HPCHEM\MS10\DATA\130411\13041116.D** Batch ID: **MS10S0719B** Analysis Date: **04/11/2013 15:18**

Sample ID: **GLCS MS10S0719B** Units : **mg/Kg** Run ID: **MSD_10_130411A** Prep Date: **04/11/2013 15:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	17.3	2	16		108	63	149			
Surr: 1,2-Dichloroethane-d4	0.505		0.4		126	70	130			
Surr: Toluene-d8	0.444		0.4		111	70	130			
Surr: 4-Bromofluorobenzene	0.4		0.4		99.9	70	130			

Sample Matrix Spike

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

File ID: **C:\HPCHEM\MS10\DATA\130411\13041117.D** Batch ID: **MS10S0719B** Analysis Date: **04/11/2013 15:41**

Sample ID: **13041102-01AGS** Units : **mg/Kg** Run ID: **MSD_10_130411A** Prep Date: **04/11/2013 15:41**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	15.5	2	16	0	97	36	164			
Surr: 1,2-Dichloroethane-d4	0.488		0.4		122	70	130			
Surr: Toluene-d8	0.455		0.4		114	70	130			
Surr: 4-Bromofluorobenzene	0.419		0.4		105	70	130			

Sample Matrix Spike Duplicate

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

File ID: **C:\HPCHEM\MS10\DATA\130411\13041118.D** Batch ID: **MS10S0719B** Analysis Date: **04/11/2013 16:04**

Sample ID: **13041102-01AGSD** Units : **mg/Kg** Run ID: **MSD_10_130411A** Prep Date: **04/11/2013 16:04**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	14.1	2	16	0	88	36	164	15.47	8.9(40)	
Surr: 1,2-Dichloroethane-d4	0.482		0.4		121	70	130			
Surr: Toluene-d8	0.443		0.4		111	70	130			
Surr: 4-Bromofluorobenzene	0.417		0.4		104	70	130			

Comments:

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Alpha Analytical, Inc.

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Date: *23-Apr-13*

QC Summary Report

Work Order: 13041242

Method Blank

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

File ID: **13041608.D** Batch ID: **MS12W0416B** Analysis Date: **04/16/2013 13:07**

Sample ID: **MBLK MS12W0416B** Units : **mg/L** Run ID: **MSD_12_130416A** Prep Date: **04/16/2013 13:07**

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	0.0111		0.01		111	70	130			
Surr: Toluene-d8	0.0102		0.01		102	70	130			
Surr: 4-Bromofluorobenzene	0.0102		0.01		102	70	130			

Laboratory Control Spike

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

File ID: **13041607.D** Batch ID: **MS12W0416B** Analysis Date: **04/16/2013 12:44**

Sample ID: **GLCS MS12W0416B** Units : **mg/L** Run ID: **MSD_12_130416A** Prep Date: **04/16/2013 12:44**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.392	0.05	0.4		98	70	130			
Surr: 1,2-Dichloroethane-d4	0.0101		0.01		101	70	130			
Surr: Toluene-d8	0.0103		0.01		103	70	130			
Surr: 4-Bromofluorobenzene	0.00958		0.01		96	70	130			

Sample Matrix Spike

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

File ID: **13041619.D** Batch ID: **MS12W0416B** Analysis Date: **04/16/2013 17:07**

Sample ID: **13041242-09AGS** Units : **mg/L** Run ID: **MSD_12_130416A** Prep Date: **04/16/2013 17:07**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.91	0.25	2	0	95	54	143			
Surr: 1,2-Dichloroethane-d4	0.057		0.05		114	70	130			
Surr: Toluene-d8	0.0491		0.05		98	70	130			
Surr: 4-Bromofluorobenzene	0.0471		0.05		94	70	130			

Sample Matrix Spike Duplicate

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

File ID: **13041620.D** Batch ID: **MS12W0416B** Analysis Date: **04/16/2013 17:28**

Sample ID: **13041242-09AGSD** Units : **mg/L** Run ID: **MSD_12_130416A** Prep Date: **04/16/2013 17:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.1	0.25	2	0	105	54	143	1.908	9.8(23)	
Surr: 1,2-Dichloroethane-d4	0.0316		0.05		63	70	130			S54
Surr: Toluene-d8	0.0495		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.0489		0.05		98	70	130			

Comments:

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S54 = Surrogate recovery was below laboratory acceptance limits.

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Date: *23-Apr-13*

QC Summary Report

Work Order: 13041242

Method Blank

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

File ID: **13041805.D** Batch ID: **MS15W0418B** Analysis Date: **04/18/2013 12:20**

Sample ID: **MBLK MS15W0418B** Units : **mg/L** Run ID: **MSD_15_130418A** Prep Date: **04/18/2013 12:20**

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	0.00925		0.01		93	70	130			
Surr: Toluene-d8	0.01		0.01		100	70	130			
Surr: 4-Bromofluorobenzene	0.00967		0.01		97	70	130			

Laboratory Control Spike

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

File ID: **13041804.D** Batch ID: **MS15W0418B** Analysis Date: **04/18/2013 11:50**

Sample ID: **GLCS MS15W0418B** Units : **mg/L** Run ID: **MSD_15_130418A** Prep Date: **04/18/2013 11:50**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.38	0.05	0.4		95	70	130			
Surr: 1,2-Dichloroethane-d4	0.00949		0.01		95	70	130			
Surr: Toluene-d8	0.00978		0.01		98	70	130			
Surr: 4-Bromofluorobenzene	0.00995		0.01		100	70	130			

Sample Matrix Spike

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

File ID: **13041829.D** Batch ID: **MS15W0418B** Analysis Date: **04/18/2013 21:02**

Sample ID: **13041242-21AGS** Units : **mg/L** Run ID: **MSD_15_130418A** Prep Date: **04/18/2013 21:02**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.79	0.25	2	0	90	54	143			
Surr: 1,2-Dichloroethane-d4	0.0466		0.05		93	70	130			
Surr: Toluene-d8	0.049		0.05		98	70	130			
Surr: 4-Bromofluorobenzene	0.0489		0.05		98	70	130			

Sample Matrix Spike Duplicate

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

File ID: **13041830.D** Batch ID: **MS15W0418B** Analysis Date: **04/18/2013 21:24**

Sample ID: **13041242-21AGSD** Units : **mg/L** Run ID: **MSD_15_130418A** Prep Date: **04/18/2013 21:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.99	0.25	2	0	99.5	54	143	1.794	10.4(23)	
Surr: 1,2-Dichloroethane-d4	0.0469		0.05		94	70	130			
Surr: Toluene-d8	0.0499		0.05		99.9	70	130			
Surr: 4-Bromofluorobenzene	0.0488		0.05		98	70	130			

Comments:

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Date: *23-Apr-13*

QC Summary Report

Work Order: 13041242

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **13041614.D** Batch ID: **MS15S0719A** Analysis Date: **04/16/2013 15:20**

Sample ID: **MBLK MS15S0719A** Units : **µg/Kg** Run ID: **MSD_15_130416A** Prep Date: **04/16/2013 15:20**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	ND	5								
Toluene	ND	5								
Ethylbenzene	ND	5								
Xylenes, Total	ND	5								
Surr: 1,2-Dichloroethane-d4	184		200		92	70	130			
Surr: Toluene-d8	202		200		101	70	130			
Surr: 4-Bromofluorobenzene	186		200		93	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **13041509.D** Batch ID: **MS15S0719A** Analysis Date: **04/15/2013 14:21**

Sample ID: **LCS MS15S0719A** Units : **µg/Kg** Run ID: **MSD_15_130416A** Prep Date: **04/15/2013 14:21**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	419	10	400		105	70	137			
Toluene	446	10	400		112	70	139			
Ethylbenzene	453	10	400		113	70	137			
Xylenes, Total	970	10	800		121	70	145			
Surr: 1,2-Dichloroethane-d4	357		400		89	70	130			
Surr: Toluene-d8	405		400		101	70	130			
Surr: 4-Bromofluorobenzene	384		400		96	70	130			

Laboratory Control Spike Duplicate

Type **LCSD** Test Code: **EPA Method SW8260B**

File ID: **13041510.D** Batch ID: **MS15S0719A** Analysis Date: **04/15/2013 14:42**

Sample ID: **LCSD MS15S0719A** Units : **µg/Kg** Run ID: **MSD_15_130416A** Prep Date: **04/15/2013 14:42**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	438	10	400		110	70	137	419.2	4.4(30)	
Toluene	459	10	400		115	70	139	446.1	2.8(28)	
Ethylbenzene	453	10	400		113	70	137	452.7	0.0(37)	
Xylenes, Total	969	10	800		121	70	145	970.4	0.1(34)	
Surr: 1,2-Dichloroethane-d4	353		400		88	70	130			
Surr: Toluene-d8	427		400		107	70	130			
Surr: 4-Bromofluorobenzene	374		400		94	70	130			

Comments:

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Date: *23-Apr-13*

QC Summary Report

Work Order: 13041242

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **13041608.D** Batch ID: **MS12W0416A** Analysis Date: **04/16/2013 13:07**

Sample ID: **MBLK MS12W0416A** Units : **µg/L** Run ID: **MSD_12_130416A** Prep Date: **04/16/2013 13:07**

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	11.1		10		111	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **13041606.D** Batch ID: **MS12W0416A** Analysis Date: **04/16/2013 12:11**

Sample ID: **LCS MS12W0416A** Units : **µg/L** Run ID: **MSD_12_130416A** Prep Date: **04/16/2013 12:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	9.06	0.5	10		91	70	130			
Toluene	9.78	0.5	10		98	80	120			
Ethylbenzene	10.9	0.5	10		109	80	120			
Xylenes, Total	18.6	0.5	20		93	70	130			
Surr: 1,2-Dichloroethane-d4	10.5		10		105	70	130			
Surr: Toluene-d8	9.85		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.91		10		99	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **13041617.D** Batch ID: **MS12W0416A** Analysis Date: **04/16/2013 16:23**

Sample ID: **13041242-09AMS** Units : **µg/L** Run ID: **MSD_12_130416A** Prep Date: **04/16/2013 16:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	42.7	1.3	50	0	85	67	134			
Toluene	48.7	1.3	50	0	97	38	130			
Ethylbenzene	55.6	1.3	50	0	111	70	130			
Xylenes, Total	92.9	1.3	100	0	93	70	130			
Surr: 1,2-Dichloroethane-d4	34		50		68	70	130			S54
Surr: Toluene-d8	48		50		96	70	130			
Surr: 4-Bromofluorobenzene	45.3		50		91	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **13041618.D** Batch ID: **MS12W0416A** Analysis Date: **04/16/2013 16:45**

Sample ID: **13041242-09AMSD** Units : **µg/L** Run ID: **MSD_12_130416A** Prep Date: **04/16/2013 16:45**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	38.6	1.3	50	0	77	67	134	42.67	9.9(21)	
Toluene	45.5	1.3	50	0	91	38	130	48.66	6.7(20)	
Ethylbenzene	51	1.3	50	0	102	70	130	55.64	8.7(20)	
Xylenes, Total	86.3	1.3	100	0	86	70	130	92.92	7.5(22)	
Surr: 1,2-Dichloroethane-d4	33.5		50		67	70	130			S54
Surr: Toluene-d8	48.7		50		97	70	130			
Surr: 4-Bromofluorobenzene	45.1		50		90	70	130			

Comments:

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S54 = Surrogate recovery was below laboratory acceptance limits.

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Date: *23-Apr-13*

QC Summary Report

Work Order: 13041242

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **13041805.D** Batch ID: **MS15W0418A** Analysis Date: **04/18/2013 12:20**

Sample ID: **MBLK MS15W0418A** Units : **µg/L** Run ID: **MSD_15_130418A** Prep Date: **04/18/2013 12:20**

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	9.25		10		93	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	9.67		10		97	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **13041803.D** Batch ID: **MS15W0418A** Analysis Date: **04/18/2013 11:28**

Sample ID: **LCS MS15W0418A** Units : **µg/L** Run ID: **MSD_15_130418A** Prep Date: **04/18/2013 11:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	9.71	0.5	10		97	70	130			
Toluene	10.3	0.5	10		103	80	120			
Ethylbenzene	10.3	0.5	10		103	80	120			
Xylenes, Total	21.9	0.5	20		110	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	9.96		10		99.6	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **13041827.D** Batch ID: **MS15W0418A** Analysis Date: **04/18/2013 20:19**

Sample ID: **13041242-21AMS** Units : **µg/L** Run ID: **MSD_15_130418A** Prep Date: **04/18/2013 20:19**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	43.7	1.3	50	0	87	67	134			
Toluene	45.1	1.3	50	0	90	38	130			
Ethylbenzene	44.8	1.3	50	0	90	70	130			
Xylenes, Total	98.6	1.3	100	0	99	70	130			
Surr: 1,2-Dichloroethane-d4	50.6		50		101	70	130			
Surr: Toluene-d8	50.8		50		102	70	130			
Surr: 4-Bromofluorobenzene	49		50		98	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **13041828.D** Batch ID: **MS15W0418A** Analysis Date: **04/18/2013 20:40**

Sample ID: **13041242-21AMSD** Units : **µg/L** Run ID: **MSD_15_130418A** Prep Date: **04/18/2013 20:40**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	49.3	1.3	50	0	99	67	134	43.67	12.1(21)	
Toluene	52.3	1.3	50	0	105	38	130	45.14	14.8(20)	
Ethylbenzene	52.7	1.3	50	0	105	70	130	44.8	16.2(20)	
Xylenes, Total	113	1.3	100	0	113	70	130	98.58	13.3(22)	
Surr: 1,2-Dichloroethane-d4	51		50		102	70	130			
Surr: Toluene-d8	51		50		102	70	130			
Surr: 4-Bromofluorobenzene	48.8		50		98	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.

Work Order Amendments

AMENDED

ARC13041242

Tuesday, April 16, 2013 08:32 AM

Amended 4/16/13 to correct sample -34A matrix, due to login error. SN

Billing Information :

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 : ARCW13041242

Report Due By : 5:00 PM On : 26-Apr-13

Client:
Arcadis-US
1100 Olive Way, Suite 800

Seattle, WA 98101

Report Attention	Phone Number	EMail Address
Jonathan Flomerfelt	(206) 726-4712 x	jonathan.flomerfelt@arcadis-us.com

EDD Required : **No**

Sampled by : Kyle Haslam

PO :

Client's COC # : 11085, 11253, 11263 Job : WA000804, 2013/KMLT-Harbor Island

Cooler Temp	Samples Received	Date Printed
1 °C	12-Apr-13	16-Apr-13

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 300_0_W	3500FE_2OS_W	METALS_AQ	METALS_DS	METALS_SO	METHANE_W	SULFIDE_W	TPH/E_SG_W	Sample Remarks
ARC13041242-01A	A-5	AQ	04/10/13 15:55	3	0	10									
ARC13041242-02A	A-8	AQ	04/10/13 15:30	6	0	10								NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-03A	A-10	AQ	04/10/13 16:20	6	0	10								NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-04A	A-14R	AQ	04/10/13 15:00	7	0	10			Pb					NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-05A	A-21	AQ	04/10/13 14:15	10	0	10	NO3, SO4		Pb			CH4	Sulfide		
ARC13041242-06A	A-23R	AQ	04/08/13 16:15	12	0	10	NO3, SO4	FE+2	Pb	Pb		CH4	Sulfide		
ARC13041242-07A	A-27	AQ	04/10/13 12:00	11	0	10	NO3, SO4	FE+2				CH4	Sulfide		
ARC13041242-08A	A-28R	AQ	04/10/13 11:15	11	0	10	NO3, SO4	FE+2	Pb			CH4	Sulfide		1 HCL VOA received broken.
ARC13041242-09A	MW-07R	AQ	04/09/13 10:20	8	0	10			Pb				Sulfide	NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-10A	MW-1	AQ	04/09/13 12:35	7	0	10			Pb					NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.

Comments: Security seals intact. Frozen ice. Total Xylenes. Filter and Preserve metals. Some samples were received outside of the 48hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Ok to run samples -06A : & -23A for Fe 2+ outside of hold time, ok to run sample -06A with headspace, TPH/E silica gel only, and VOC list for sample -34A confirmed, per email from Jonathan 4/12/13. Ok to run Sulfide for sample 30A, per phone call with Jonathan. VOCS=CA limits.

	Signature	Print Name	Company	Date/Time
Logged in by:			Alpha Analytical, Inc.	4/16/13 0840

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

AMENDED

Billing Information :

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 : ARCW13041242

Report Due By : 5:00 PM On : 26-Apr-13

Client:
Arcadis-US
1100 Olive Way, Suite 800

Seattle, WA 98101

Report Attention	Phone Number	EMail Address
Jonathan Flomerfelt	(206) 726-4712 x	jonathan.flomerfelt@arcadis-us.com

EDD Required : **No**

Sampled by : Kyle Haslam

PO :

Client's COC # : 11085, 11253, 11263 Job : WA000804, 2013/KMLT-Harbor Island

Cooler Temp	Samples Received	Date Printed
1 °C	12-Apr-13	16-Apr-13

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 300_0_W	3500FE_2OS_W	METALS_AQ	METALS_DS	METALS_SO	METHANE_W	SULFIDE_W	TPH/E_SG_W	Sample Remarks
ARC13041242-11A	MW-2	AQ	04/09/13 14:15	8	0	10			Pb				Sulfide	NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-12A	MW-3	AQ	04/09/13 14:05	7	0	10			Pb					NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-13A	MW-4	AQ	04/09/13 11:30	6	0	10								NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-14A	MW-5	AQ	04/09/13 11:10	7	0	10			Pb					NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-15A	MW-6	AQ	04/09/13 17:00	12	0	10	NO3, SO4	FE+2	Pb			CH4	Sulfide		
ARC13041242-16A	MW-7	AQ	04/09/13 16:00	13	0	10	NO3, SO4	FE+2	Pb	Pb		CH4	Sulfide		
ARC13041242-17A	MW-8	AQ	04/10/13 09:20	4	0	10			Pb					NWTPH-Dx Silica Gel	Limited Sample Volume. Containers labeled MW-9, matched by sampling time.
ARC13041242-18A	MW-9	AQ	04/10/13 08:40	12	0	10	NO3, SO4	FE+2	Pb			CH4	Sulfide		
ARC13041242-19A	MW-12R	AQ	04/09/13 10:55	8	0	10			Pb				Sulfide	NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.

Comments: Security seals intact. Frozen ice. Total Xylenes. Filter and Preserve metals. Some samples were received outside of the 48hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Ok to run samples -06A : & -23A for Fe 2+ outside of hold time, ok to run sample -06A with headspace, TPH/E silica gel only, and VOC list for sample -34A confirmed, per email from Jonathan 4/12/13. Ok to run Sulfide for sample 30A, per phone call with Jonathan. VOCS=CA limits.

	Signature	Print Name	Company	Date/Time
Logged in by:			Alpha Analytical, Inc.	4/16/13 0840

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

AMENDED

WA

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

WorkOrder : ARCW13041242

Report Due By : 5:00 PM On : 26-Apr-13

Client:
Arcadis-US
1100 Olive Way, Suite 800

Seattle, WA 98101

Report Attention	Phone Number	EMail Address
Jonathan Flomerfelt	(206) 726-4712 x	jonathan.flomerfelt@arcadis-us.com

EDD Required : **No**

Sampled by : Kyle Haslam

PO :

Client's COC # : 11085, 11253, 11263 Job : WA000804, 2013/KMLT-Harbor Island

Cooler Temp	Samples Received	Date Printed
1 °C	12-Apr-13	16-Apr-13

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 300_0_W	3500FE_2OS_W	METALS_AQ	METALS_DS	METALS_SO	METHANE_W	SULFIDE_W	TPH/E_SG_W	Sample Remarks
ARC13041242-20A	MW-14	AQ	04/09/13 10:10	11	0	10	NO3, SO4	FE+2	Pb			CH4	Sulfide		
ARC13041242-21A	MW-16	AQ	04/09/13 16:00	6	0	10								NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-22A	MW-18	AQ	04/09/13 14:40	3	0	10									
ARC13041242-23A	MW-19	AQ	04/09/13 12:15	11	0	10	NO3, SO4	FE+2				CH4	Sulfide		
ARC13041242-24A	MW-20	AQ	04/09/13 15:00	6	0	10								NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-25A	MW-21	AQ	04/10/13 10:10	14	0	10	NO3, SO4	FE+2				CH4	Sulfide	NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-26A	MW-22	AQ	04/09/13 15:25	6	0	10								NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-27A	MW-23	AQ	04/10/13 13:15	12	0	10	NO3, SO4	FE+2	Pb			CH4	Sulfide		
ARC13041242-28A	MW-24	AQ	04/10/13 12:30	12	0	10	NO3, SO4	FE+2	Pb			CH4	Sulfide		
ARC13041242-29A	MW-25	AQ	04/10/13 16:50	7	0	10			Pb					NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.

Comments: Security seals intact. Frozen ice. Total Xylenes. Filter and Preserve metals. Some samples were received outside of the 48hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Ok to run samples -06A : & -23A for Fe 2+ outside of hold time, ok to run sample -06A with headspace, TPH/E silica gel only, and VOC list for sample -34A confirmed, per email from Jonathan 4/12/13. Ok to run Sulfide for sample 30A, per phone call with Jonathan. VOCS=CA limits.

	Signature	Print Name	Company	Date/Time
Logged in by:		Sandra Neu	Alpha Analytical, Inc.	4/16/13 0840

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

AMENDED

WA

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

WorkOrder : ARCW13041242

Report Due By : 5:00 PM On : 26-Apr-13

Client:
Arcadis-US
1100 Olive Way, Suite 800

Seattle, WA 98101

Report Attention	Phone Number	EMail Address
Jonathan Flomerfelt	(206) 726-4712 x	jonathan.flomerfelt@arcadis-us.com

EDD Required : **No**

Sampled by : Kyle Haslam

PO :

Client's COC # : 11085, 11253, 11263 Job : WA000804, 2013/KMLT-Harbor Island

Cooler Temp	Samples Received	Date Printed
1 °C	12-Apr-13	16-Apr-13

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 300_0_W	3500FE_2OS_W	METALS_AQ	METALS_DS	METALS_SO	METHANE_W	SULFIDE_W	TPH/E_SG_W	Sample Remarks
ARC13041242-30A	SH-02R	AQ	04/09/13 12:00	8	0	10			Pb				Sulfide	NWTPH-Dx Silica Gel	Run silica gel for DRO & HO. ZnAcetate container received. Added to COC & logged in for Sulfide, per Jonathan.
ARC13041242-31A	BD-1	AQ	04/09/13 00:00	3	0	10									
ARC13041242-32A	BD-2	AQ	04/10/13 00:00	3	0	10									
ARC13041242-33A	Drum Composite	AQ	04/10/13 17:00	3	0	10									
ARC13041242-34A	DWS-1	WS	04/10/13 17:10	2	0	10					CAM_17_TTLC				
ARC13041242-35A	Trip Blank	AQ	04/10/13 00:00	10	0	10									Reno Trip Blanks 3/7/13.

Comments: Security seals intact. Frozen ice. Total Xylenes. Filter and Preserve metals. Some samples were received outside of the 48hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Ok to run samples -06A : & -23A for Fe 2+ outside of hold time, ok to run sample -06A with headspace, TPH/E silica gel only, and VOC list for sample -34A confirmed, per email from Jonathan 4/12/13. Ok to run Sulfide for sample 30A, per phone call with Jonathan. VOCS=CA limits.

	Signature	Print Name	Company	Date/Time
Logged in by:			**Alpha Analytical, Inc.**	4/16/13 0940

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

AMENDED

Billing Information :

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 : ARCW13041242

Report Due By : 5:00 PM On : 26-Apr-13

Client:
Arcadis-US
1100 Olive Way, Suite 800

Seattle, WA 98101

Report Attention	Phone Number	EMail Address
Jonathan Flomerfelt	(206) 726-4712 x	jonathan.flomerfelt@arcadis-us.com

EDD Required : **No**

Sampled by : Kyle Haslam

PO :

Client's COC # : 11085, 11253, 11263 Job : WA000804, 2013/KMLT-Harbor Island

Cooler Temp	Samples Received	Date Printed
1 °C	12-Apr-13	**16-Apr-13**

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_S	TPH/P_W	VOC_S	VOC_W					Sample Remarks
ARC13041242-01A	A-5	AQ	04/10/13 15:55	3	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-02A	A-8	AQ	04/10/13 15:30	6	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-03A	A-10	AQ	04/10/13 16:20	6	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-04A	A-14R	AQ	04/10/13 15:00	7	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-05A	A-21	AQ	04/10/13 14:15	10	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-06A	A-23R	AQ	04/08/13 16:15	12	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-07A	A-27	AQ	04/10/13 12:00	11	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-08A	A-28R	AQ	04/10/13 11:15	11	0	10		NWTPH-Gx		BTXE_C					1 HCL VOA received broken.
ARC13041242-09A	MW-07R	AQ	04/09/13 10:20	8	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-10A	MW-1	AQ	04/09/13 12:35	7	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.

Comments: Security seals intact. Frozen ice. Total Xylenes. Filter and Preserve metals. Some samples were received outside of the 48hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Ok to run samples -06A : & -23A for Fe 2+ outside of hold time, ok to run sample -06A with headspace, TPH/E silica gel only, and VOC list for sample -34A confirmed, per email from Jonathan 4/12/13. Ok to run Sulfide for sample 30A, per phone call with Jonathan. VOCS=CA limits.

	Signature	Print Name	Company	Date/Time
Logged in by:		Sandy Neu	Alpha Analytical, Inc.	4/16/13 0840

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

AMENDED

Billing Information :

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 : ARCW13041242

Report Due By : 5:00 PM On : 26-Apr-13

Client:
Arcadis-US
1100 Olive Way, Suite 800

Seattle, WA 98101

Report Attention	Phone Number	EMail Address
Jonathan Flomerfelt	(206) 726-4712 x	jonathan.flomerfelt@arcadis-us.com

EDD Required : **No**

Sampled by : Kyle Haslam

PO :

Client's COC # : 11085, 11253, 11263 Job : WA000804, 2013/KMLT-Harbor Island

Cooler Temp	Samples Received	Date Printed
1 °C	12-Apr-13	16-Apr-13

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_S	TPH/P_W	VOC_S	VOC_W					Sample Remarks
ARC13041242-11A	MW-2	AQ	04/09/13 14:15	8	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-12A	MW-3	AQ	04/09/13 14:05	7	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-13A	MW-4	AQ	04/09/13 11:30	6	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-14A	MW-5	AQ	04/09/13 11:10	7	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-15A	MW-6	AQ	04/09/13 17:00	12	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-16A	MW-7	AQ	04/09/13 16:00	13	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-17A	MW-8	AQ	04/10/13 09:20	4	0	10		NWTPH-Gx		BTXE_C					Limited Sample Volume. Containers labeled MW-9, matched by sampling time.
ARC13041242-18A	MW-9	AQ	04/10/13 08:40	12	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-19A	MW-12R	AQ	04/09/13 10:55	8	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.

Comments: Security seals intact. Frozen ice. Total Xylenes. Filter and Preserve metals. Some samples were received outside of the 48hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Ok to run samples -06A : & -23A for Fe 2+ outside of hold time, ok to run sample -06A with headspace, TPH/E silica gel only, and VOC list for sample -34A confirmed, per email from Jonathan 4/12/13. Ok to run Sulfide for sample 30A, per phone call with Jonathan. VOCS=CA limits.

	Signature	Print Name	Company	Date/Time
Logged in by:		Sarah Nau	Alpha Analytical, Inc.	4/16/13 0840

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

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

WorkOrder : ARCW13041242

Report Due By : 5:00 PM On : 26-Apr-13

Client:
Arcadis-US
1100 Olive Way, Suite 800

Seattle, WA 98101

Report Attention	Phone Number	EMail Address
Jonathan Flomerfelt	(206) 726-4712 x	jonathan.flomerfelt@arcadis-us.com

EDD Required : **No**

Sampled by : Kyle Haslam

PO :

Client's COC # : 11085, 11253, 11263 Job : WA000804, 2013/KMLT-Harbor Island

Cooler Temp	Samples Received	Date Printed
1 °C	12-Apr-13	**16-Apr-13**

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_S	TPH/P_W	VOC_S	VOC_W					Sample Remarks
ARC13041242-20A	MW-14	AQ	04/09/13 10:10	11	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-21A	MW-16	AQ	04/09/13 16:00	6	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-22A	MW-18	AQ	04/09/13 14:40	3	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-23A	MW-19	AQ	04/09/13 12:15	11	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-24A	MW-20	AQ	04/09/13 15:00	6	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-25A	MW-21	AQ	04/10/13 10:10	14	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-26A	MW-22	AQ	04/09/13 15:25	6	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-27A	MW-23	AQ	04/10/13 13:15	12	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-28A	MW-24	AQ	04/10/13 12:30	12	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-29A	MW-25	AQ	04/10/13 16:50	7	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.

Comments: Security seals intact. Frozen ice. Total Xylenes. Filter and Preserve metals. Some samples were received outside of the 48hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Ok to run samples -06A : & -23A for Fe 2+ outside of hold time, ok to run sample -06A with headspace, TPH/E silica gel only, and VOC list for sample -34A confirmed, per email from Jonathan 4/12/13. Ok to run Sulfide for sample 30A, per phone call with Jonathan. VOCS=CA limits.

	Signature	Print Name	Company	Date/Time
Logged in by:			Alpha Analytical, Inc.	4/16/13 0840

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

AMENDED

Billing Information :

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.
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TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW13041242

Report Due By : 5:00 PM On : 26-Apr-13

Client:
Arcadis-US
1100 Olive Way, Suite 800

Seattle, WA 98101

Report Attention	Phone Number	EMail Address
Jonathan Flomerfelt	(206) 726-4712 x	jonathan.flomerfelt@arcadis-us.com

EDD Required : **No**

Sampled by : Kyle Haslam

PO :

Client's COC # : 11085, 11253, 11263 Job : WA000804, 2013/KMLT-Harbor Island

Cooler Temp	Samples Received	Date Printed
1 °C	12-Apr-13	16-Apr-13

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_S	TPH/P_W	VOC_S	VOC_W					Sample Remarks
ARC13041242-30A	SH-02R	AQ	04/09/13 12:00	8	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO. ZnAcetate container received. Added to COC & logged in for Sulfide, per Jonathan.
ARC13041242-31A	BD-1	AQ	04/09/13 00:00	3	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-32A	BD-2	AQ	04/10/13 00:00	3	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-33A	Drum Composite	AQ	04/10/13 17:00	3	0	10				BTXE_C					
ARC13041242-34A	DWS-1	WS	04/10/13 17:10	2	0	10	NWTPH-Gx		BTXE_C						
ARC13041242-35A	Trip Blank	AQ	04/10/13 00:00	10	0	10		NWTPH-Gx		BTXE_C					Reno Trip Blanks 3/7/13.

Comments: Security seals intact. Frozen ice. Total Xylenes. Filter and Preserve metals. Some samples were received outside of the 48hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Ok to run samples -06A : & -23A for Fe 2+ outside of hold time, ok to run sample -06A with headspace, TPH/E silica gel only, and VOC list for sample -34A confirmed, per email from Jonathan 4/12/13. Ok to run Sulfide for sample 30A, per phone call with Jonathan. VOCS=CA limits.

	Signature	Print Name	Company	Date/Time
Logged in by:		Samuel Neri	Alpha Analytical, Inc.	4/16/13 0840

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.
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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

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

WorkOrder : ARCW13041242

Report Due By : 5:00 PM On : 26-Apr-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

EDD Required : **No**

Sampled by : Kyle Haslam

PO :

Cooler Temp	Samples Received	Date Printed
1 °C	12-Apr-13	12-Apr-13

Client's COC # : 11085, 11253, 11263 Job : WA000804, 2013/KMLT-Harbor Island

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 300_0_W	3500FE_2OS_W	METALS_AQ	METALS_DS	METALS_SO	METHANE_W	SULFIDE_W	TPH/E_SG_W	Sample Remarks
ARC13041242-01A	A-5	AQ	04/10/13 15:55	3	0	10									
ARC13041242-02A	A-8	AQ	04/10/13 15:30	6	0	10								NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-03A	A-10	AQ	04/10/13 16:20	6	0	10								NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-04A	A-14R	AQ	04/10/13 15:00	7	0	10			Pb					NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-05A	A-21	AQ	04/10/13 14:15	10	0	10	NO3, SO4		Pb			CH4	Sulfide		
ARC13041242-06A	A-23R	AQ	04/08/13 16:15	12	0	10	NO3, SO4	FE+2	Pb	Pb		CH4	Sulfide		
ARC13041242-07A	A-27	AQ	04/10/13 12:00	11	0	10	NO3, SO4	FE+2				CH4	Sulfide		
ARC13041242-08A	A-28R	AQ	04/10/13 11:15	11	0	10	NO3, SO4	FE+2	Pb			CH4	Sulfide		1 HCL VOA received broken.
ARC13041242-09A	MW-07R	AQ	04/09/13 10:20	8	0	10			Pb				Sulfide	NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-10A	MW-1	AQ	04/09/13 12:35	7	0	10			Pb					NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.

Comments: Security seals intact. Frozen ice. Total Xylenes. Filter and Preserve metals. Some samples were received outside of the 48hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Ok to run samples -06A : & -23A for Fe 2+ outside of hold time, ok to run sample -06A with headspace, TPH/E silica gel only, and VOC list for sample -34A confirmed, per email from Jonathan 4/12/13. Ok to run Sulfide for sample 30A, per phone call with Jonathan. VOCS=CA limits.

	Signature	Print Name	Company	Date/Time
Logged in by:			Alpha Analytical, Inc.	4/12/13 1411

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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

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

WorkOrder : ARCW13041242

Report Due By : 5:00 PM On : 26-Apr-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

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ARC13041242-11A	MW-2	AQ	04/09/13 14:15	8	0	10			Pb				Sulfide	NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-12A	MW-3	AQ	04/09/13 14:05	7	0	10			Pb					NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-13A	MW-4	AQ	04/09/13 11:30	6	0	10								NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-14A	MW-5	AQ	04/09/13 11:10	7	0	10			Pb					NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-15A	MW-6	AQ	04/09/13 17:00	12	0	10	NO3, SO4	FE+2	Pb			CH4	Sulfide		
ARC13041242-16A	MW-7	AQ	04/09/13 16:00	13	0	10	NO3, SO4	FE+2	Pb	Pb		CH4	Sulfide		
ARC13041242-17A	MW-8	AQ	04/10/13 09:20	4	0	10			Pb					NWTPH-Dx Silica Gel	Limited Sample Volume. Containers labeled MW-9, matched by sampling time.
ARC13041242-18A	MW-9	AQ	04/10/13 08:40	12	0	10	NO3, SO4	FE+2	Pb			CH4	Sulfide		
ARC13041242-19A	MW-12R	AQ	04/09/13 10:55	8	0	10			Pb				Sulfide	NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.

Comments: Security seals intact. Frozen ice. Total Xylenes. Filter and Preserve metals. Some samples were received outside of the 48hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Ok to run samples -06A : & -23A for Fe 2+ outside of hold time, ok to run sample -06A with headspace, TPH/E silica gel only, and VOC list for sample -34A confirmed, per email from Jonathan 4/12/13. Ok to run Sulfide for sample 30A, per phone call with Jonathan. VOCS=CA limits.

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ARC13041242-20A	MW-14	AQ	04/09/13 10:10	11	0	10	NO3, SO4	FE+2	Pb			CH4	Sulfide		
ARC13041242-21A	MW-16	AQ	04/09/13 16:00	6	0	10								NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-22A	MW-18	AQ	04/09/13 14:40	3	0	10									
ARC13041242-23A	MW-19	AQ	04/09/13 12:15	11	0	10	NO3, SO4	FE+2				CH4	Sulfide		
ARC13041242-24A	MW-20	AQ	04/09/13 15:00	6	0	10								NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-25A	MW-21	AQ	04/10/13 10:10	14	0	10	NO3, SO4	FE+2				CH4	Sulfide	NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-26A	MW-22	AQ	04/09/13 15:25	6	0	10								NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.
ARC13041242-27A	MW-23	AQ	04/10/13 13:15	12	0	10	NO3, SO4	FE+2	Pb			CH4	Sulfide		
ARC13041242-28A	MW-24	AQ	04/10/13 12:30	12	0	10	NO3, SO4	FE+2	Pb			CH4	Sulfide		
ARC13041242-29A	MW-25	AQ	04/10/13 16:50	7	0	10			Pb					NWTPH-Dx Silica Gel	Run silica gel for DRO & HO.

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Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 300_0_W	3500FE_2OS_W	METALS_AQ	METALS_DS	METALS_SO	METHANE_W	SULFIDE_W	TPH/E_SG_W	Sample Remarks
ARC13041242-30A	SH-02R	AQ	04/09/13 12:00	8	0	10			Pb				Sulfide	NWTPH-Dx Silica Gel	Run silica gel for DRO & HO. ZnAcetate container received. Added to COC & logged in for Sulfide, per Jonathan.
ARC13041242-31A	BD-1	AQ	04/09/13 00:00	3	0	10									
ARC13041242-32A	BD-2	AQ	04/10/13 00:00	3	0	10									
ARC13041242-33A	Drum Composite	AQ	04/10/13 17:00	3	0	10									
ARC13041242-34A	DWS-1	AQ	04/10/13 17:10	2	0	10					CAM_17_TTLC				
ARC13041242-35A	Trip Blank	AQ	04/10/13 00:00	10	0	10									Reno Trip Blanks 3/7/13.

Comments: Security seals intact. Frozen ice. Total Xylenes. Filter and Preserve metals. Some samples were received outside of the 48hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Ok to run samples -06A : & -23A for Fe 2+ outside of hold time, ok to run sample -06A with headspace, TPH/E silica gel only, and VOC list for sample -34A confirmed, per email from Jonathan 4/12/13. Ok to run Sulfide for sample 30A, per phone call with Jonathan. VOCS=CA limits.

	Signature	Print Name	Company	Date/Time
Logged in by:			**Alpha Analytical, Inc.**	4/12/13 1441

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Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_S	TPH/P_W	VOC_S	VOC_W					Sample Remarks
ARC13041242-01A	A-5	AQ	04/10/13 15:55	3	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-02A	A-8	AQ	04/10/13 15:30	6	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-03A	A-10	AQ	04/10/13 16:20	6	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-04A	A-14R	AQ	04/10/13 15:00	7	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-05A	A-21	AQ	04/10/13 14:15	10	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-06A	A-23R	AQ	04/08/13 16:15	12	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-07A	A-27	AQ	04/10/13 12:00	11	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-08A	A-28R	AQ	04/10/13 11:15	11	0	10		NWTPH-Gx		BTXE_C					1 HCL VOA received broken.
ARC13041242-09A	MW-07R	AQ	04/09/13 10:20	8	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-10A	MW-1	AQ	04/09/13 12:35	7	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.

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ARC13041242-11A	MW-2	AQ	04/09/13 14:15	8	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-12A	MW-3	AQ	04/09/13 14:05	7	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-13A	MW-4	AQ	04/09/13 11:30	6	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-14A	MW-5	AQ	04/09/13 11:10	7	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-15A	MW-6	AQ	04/09/13 17:00	12	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-16A	MW-7	AQ	04/09/13 16:00	13	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-17A	MW-8	AQ	04/10/13 09:20	4	0	10		NWTPH-Gx		BTXE_C					Limited Sample Volume. Containers labeled MW-9, matched by sampling time.
ARC13041242-18A	MW-9	AQ	04/10/13 08:40	12	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-19A	MW-12R	AQ	04/09/13 10:55	8	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.

Comments: Security seals intact. Frozen ice. Total Xylenes. Filter and Preserve metals. Some samples were received outside of the 48hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Ok to run samples -06A : & -23A for Fe 2+ outside of hold time, ok to run sample -06A with headspace, TPH/E silica gel only, and VOC list for sample -34A confirmed, per email from Jonathan 4/12/13. Ok to run Sulfide for sample 30A, per phone call with Jonathan. VOCS=CA limits.

	Signature	Print Name	Company	Date/Time
Logged in by:		Sarah Nen	Alpha Analytical, Inc.	4/12/13 1411

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ARC13041242-21A	MW-16	AQ	04/09/13 16:00	6	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-22A	MW-18	AQ	04/09/13 14:40	3	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-23A	MW-19	AQ	04/09/13 12:15	11	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-24A	MW-20	AQ	04/09/13 15:00	6	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-25A	MW-21	AQ	04/10/13 10:10	14	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-26A	MW-22	AQ	04/09/13 15:25	6	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.
ARC13041242-27A	MW-23	AQ	04/10/13 13:15	12	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-28A	MW-24	AQ	04/10/13 12:30	12	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-29A	MW-25	AQ	04/10/13 16:50	7	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO.

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Seattle, WA 98102

Report Attention	Phone Number	EMail Address
Jonathan Flomerfelt	(206) 726-4712 x	jonathan.flomerfelt@arcadis-us.com

EDD Required : **No**

Sampled by : Kyle Haslam

PO :

Client's COC # : 11085, 11253, 11263 Job : WA000804, 2013/KMLT-Harbor Island

Cooler Temp	Samples Received	Date Printed
1 °C	12-Apr-13	12-Apr-13

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_S	TPH/P_W	VOC_S	VOC_W					Sample Remarks
ARC13041242-30A	SH-02R	AQ	04/09/13 12:00	8	0	10		NWTPH-Gx		BTXE_C					Run silica gel for DRO & HO. ZnAcetate container received. Added to COC & logged in for Sulfide, per Jonathan.
ARC13041242-31A	BD-1	AQ	04/09/13 00:00	3	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-32A	BD-2	AQ	04/10/13 00:00	3	0	10		NWTPH-Gx		BTXE_C					
ARC13041242-33A	Drum Composite	AQ	04/10/13 17:00	3	0	10				BTXE_C					
ARC13041242-34A	DWS-1	AQ	04/10/13 17:10	2	0	10	NWTPH-Gx		BTXE_C						
ARC13041242-35A	Trip Blank	AQ	04/10/13 00:00	10	0	10		NWTPH-Gx		BTXE_C					Reno Trip Blanks 3/7/13.

Comments: Security seals intact. Frozen ice. Total Xylenes. Filter and Preserve metals. Some samples were received outside of the 48hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Ok to run samples -06A : & -23A for Fe 2+ outside of hold time, ok to run sample -06A with headspace, TPH/E silica gel only, and VOC list for sample -34A confirmed, per email from Jonathan 4/12/13. Ok to run Sulfide for sample 30A, per phone call with Jonathan. VOCS=CA limits.

	Signature	Print Name	Company	Date/Time
Logged in by:		Sandy Nem	Alpha Analytical, Inc.	4/12/13 1411

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: Kinder Morgan Energy Partners
Attn: Robert Trudinger
Address: 1140 Canal Blvd
City, State, Zip: Richmond CA 94804
Phone Number: (510) 672-1678 Fax: (303) 984-3759

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: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Phone: 916-366-9089
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Phone: 702-281-4848
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Phone: 714-386-2901

11085

Page # 1 of 3

Consultant/ Client Info:

Company: ARCADIS
Address: 1100 Olive Way Suite 800
City, State, Zip: Seattle, WA 98101

Job and Purchase Order Info:

Job #: WA000804.2013
Job Name: KMLT - Harbor Island
P.O. #:

Report Attention/Project Manager:

Name: Jonathan Flowerfelt
Email Address: jonathan.flowerfelt@arcadis-us.com
Phone #: (206) 726-4712
Cell #:

QC Deliverable Info:

EDD Required? Yes / No EDF Required? Yes / No
Global ID:
Data Validation Level: III or IV

Samples Collected from which State? (circle one) AZ CA NV (WA) ID OR DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	GRO (NWTPH-Gx)	DRO/HO (NWTPH-Dx)	BTEX (8260B)	Total Lead (6010)	Diss Lead (6010)	Nitrate (300.0)	Sulfate (300.0)	Sulfide (4500-S-D)	Ferrous Fe (SM3500)	Methane (RSK 175)		Remarks
15:55	04/10	AQ	[illegible]124201A	A-5		N	3	X		X									
15:30	04/10		01A	A-8			6	X	X	X									
16:20	04/10		02A	A-10			6	X	X	X									
15:00	04/10		04A	A-14R			7	X	X	X	X					NH			
14:15	04/10		05A	A-21			~~7~~ 10	X		X	X		X	X	X	[illegible]	X		No Ferrous Fe
16:15	04/08		06A	A-23R			12	X		X	X	X	X	X	X	X	X		
12:00	04/10		07A	A-27			11	X		X	[illegible]	NH	X	X	X	X	X		No Total Pb
11:15	04/10		08A	A-28R			12	X		X	X		X	X	X	X	X		
10:20	04/09		09A	MW-07R			8	X	X	X	X				X				
12:55	04/09		10A	MW-1			7	X	X	X	X								
14:15	04/09		11A	MW-2			8	X	X	X	X				X				
14:05	04/09		12A	MW-3			7	X	X	X	X								

ADDITIONAL INSTRUCTIONS:

Please lab filter dissolved lead. ~~Please run GRO/BTEX/Methane from 3 HCl VOAs for A-21.~~ Run SGC on DRO/HO

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 445.0636 (c) (2).

Sampled By: Kyle Haslam

Relinquished by: (Signature/Affiliation)	Date:	Time:	Received by: (Signature/Affiliation)	Date:	Time:
Kyle Haslam ARCADIS	14:00	4/11/13	COOLER NH	4/11/13	14:00
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date: 4/12/13	Time: 0930
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:

* Key: AQ - Aqueous WA - Waste OT - Other **: L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

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.

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Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Phone: 714-386-2901

11253

Consultant/ Client Info:

Company: ARCADIS
Address: 1100 Olive Way Suite 800
City, State, Zip: Seattle, WA 98101

Job and Purchase Order Info:

Job #: WA000804.2013
Job Name: KMLT - Harbor Island
P.O. #:

Report Attention/Project Manager:

Name: Jonathan Flowerfelt
Email Address: jonathan.flowerfelt@arcadis-us.com
Phone #: (206) 726-4712
Cell #:

QC Deliverable Info:

EDD Required? Yes / No EDF Required? Yes / No
Global ID:
Data Validation Level: III or IV

Samples Collected from which State? (circle one) AZ CA NV (WA) ID OR DOD Site Other

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11:30	4/9	AQ	13A	MW-4		N	6	X	X	X								
11:10	4/9		14A	MW-5			7	X	X	X	X							
17:00	4/9		15A	MW-6			12	X		X	X		X	X	X	X	X	
16:00	4/9		16A	MW-7			13	X		X	X	X	X	X	X	X	X	
9:20	4/10		17A	MW-8			4	X	X	X	X							
8:40	4/10		18A	MW-9			12	X		X	X		X	X	X	X	X	
10:55	4/9		19A	MW-12R			8	X	X	X	X				X			
10:10	4/9		20A	MW-14			11	X		X			X	X	X	X	X	
16:00	4/9		21A	MW-16			6	X	X	X								
14:40	4/9		22A	MW-18			3	X		X								
12:15	4/9		23A	MW-19			11	X		X			X	X	X	X	X	
15:00	4/9		24A	MW-20			6	X	X	X								

ADDITIONAL INSTRUCTIONS:

Please lab filter dissolved leads. Run SGL on DRO/HO. Please run GRO/DRO/HO/BTEX from the three VOAs if possible for MW-8

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 445.0636 (c) (2).

Sampled By: Kyle Haslam

Relinquished by: (Signature/Affiliation)	Date:	Time:	Received by: (Signature/Affiliation)	Date:	Time:
Kyle Haslam AMS	4/11/13	14:00	Cooler ALM	4/11/13	14:00
			Alpha	4/12/13	0930

* Key: AQ - Aqueous WA - Waste OT - Other **: L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

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Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Phone: 714-386-2901

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Consultant/ Client Info:

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

Job and Purchase Order Info:

Job #: WA000804.2013
Job Name: KMLT- Harbor Island
P.O. #:

Report Attention/Project Manager:

Name: Jonathan Flowerfelt
Email Address: Jonathan.flowerfelt@aecom.com
Phone #: (206) 726-4712
Cell #:

QC Deliverable Info:

EDD Required? Yes / No EDF Required? Yes / No
Global ID:
Data Validation Level: III or IV

Samples Collected from which State? (circle one) AZ CA NV WA ID OR DOD Site Other

Time Sampled (HHMM)	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: GRO (NWTPH-Gx)	DRO/HO (NWTPH-Dx)	BTEX (8260B)	Total Lead (6010)	Dissolved Lead (6010)	Nitrate (300.0)	Sulfate (300.0)	Sulfide (4500-S-D)	Ferrous (SM 3500) FE	Methane (RSK 175)	VOCs (8260B)	Remarks: TPH	Remarks: Natural Cam 17
10:10	4/10	AQ	-75A	MW-21		N	14	X	X	X			X	X	X	X	X			
15:15	4/9		26A	MW-22			6	X	X	X										
13:15	4/10		27A	MW-23			10	X		X	X		X	X	X	X	X			
12:30	4/10		28A	MW-24			12	X		X	X		X	X	X	X	X			
16:50	4/10		29A	MW-25			7	X	X	X	X									
12:00	4/9		30A	SH-02R			8	X	X	X	X				X					
—	4/9		31A	BD-1			3	X		X										
—	4/10		32A	BD-2			3	X		X										
17:00	4/10		33A	Drum Composite			3			X										
17:10	4/10	WA	34A	DWS-1			2	X										X	X	X
—	—	AQ	35A	Trip Blank			10	X		X										

ADDITIONAL INSTRUCTIONS:

Run SGC on DRO/HO.

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 445.0636 (c) (2).

Sampled By: Kyle Hasken

Relinquished by: (Signature/Affiliation)	Date:	Time:	Received by: (Signature/Affiliation)	Date:	Time:
Kyle Hasken AECOM	4/11/13	14:00	Cooler RAT	4-11-2013	14:00
			Atpnn	4/12/13	0930

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