

Document Receipt Information

Hard Copy

CD

Email

Date Received 4-1-2019

Permit Number 18693

Project Manager Bobbi Coleman

Name of Contractor JACOBS

UST Certification Number 2019 Monitoring Report

Docket Number 303 URP

Scanned _____

March 28, 2019

Delivered via FedEx Overnight

Ms. Bobbi Coleman
South Carolina Department of Health and Environmental Control (SCDHEC)
Assessment Section, UST Management Division
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

**Subject: Fourth Quarter 2018 Monitoring Report
Plantation Pipe Line Company
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693, "Kinder Morgan Belton Pipeline Release"**

Dear Ms. Coleman,

On behalf of Plantation Pipe Line Company (Plantation), CH2M HILL Engineers, Inc. (CH2M), now part of Jacobs Engineering Group Inc. (Jacobs), is submitting the attached Fourth Quarter 2018 Monitoring Report for the Lewis Drive Remediation Site in Belton, South Carolina. This report summarizes the work performed at the site between October 1, 2018, and December 31, 2018. If you have any questions or concerns, please call me at 919-859-5789 or Mr. Jerry Aycock/Plantation at 770-751-4165.

Regards,



William M. Waldron, P.E.
Program Manager

c: Jerry Aycock, Plantation (Digital, Jerry_Aycock@kindermorgan.com)
Mary Clair Lyons, Esq., Plantation (Digital, Mary_Lyons@kindermorgan.com)
Richard Morton, Esq., Womble Bond Dickinson, LLP (Digital, ric.morton@wbd-us.com)
File



**Plantation Pipe Line Company
Lewis Drive Remediation Site
Belton, South Carolina
Site ID Number 18693
“Kinder Morgan Belton Pipeline Release”**

Fourth Quarter 2018 Monitoring Report

Final

March 28, 2019

Plantation Pipe Line Company



Lewis Drive Remediation Site, Belton, South Carolina

Project No: D3161400
Document Title: Fourth Quarter 2018 Monitoring Report
Revision: Final
Date: March 28, 2019
Client Name: Plantation Pipe Line Company
Project Manager: William Waldron
Author: Bethany Garvey

Jacobs Engineering Group Inc.

111 Corning Road, Suite 116
Cary, North Carolina 27518
United States
T +1.919.859.5001
www.jacobs.com

The material and data presented in this report were prepared consistent with current and generally accepted consulting principles and practices. This work was supervised by the following Jacobs licensed professional.




Jonathan Grimes, P.G.
South Carolina Registered Professional Geologist No. 2235

March 28, 2019
Date

Contents

Acronyms and Abbreviations iii

1. Introduction 1-1

2. Work Activities 2-1

3. Work Procedures 3-1

 3.1 Gauging Events..... 3-1

 3.2 Product Recovery..... 3-1

 3.3 Surface Water 3-1

 3.4 Groundwater Sampling Events 3-1

 3.5 Air Sparging System Operation and Maintenance..... 3-2

 3.6 Additional Activities 3-3

4. Discussion of Results..... 4-1

 4.1 Product Recovery..... 4-1

 4.2 Surface Water 4-1

 4.3 Groundwater Flow..... 4-1

 4.4 Dissolved Oxygen Distribution 4-2

 4.4.1 Brown’s Creek Protection Zone 4-2

 4.4.2 Cupboard Creek Protection Zone 4-2

 4.4.3 Hayfield Zone 4-2

 4.4.4 Shallow Bedrock Zone 4-2

 4.5 Groundwater Monitoring Results 4-2

 4.5.1 Brown’s Creek Protection Zone 4-2

 4.5.2 Cupboard Creek Protection Zone 4-3

 4.5.3 Hayfield Zone 4-3

 4.5.4 Shallow Bedrock Zone 4-4

 4.6 Air Sparging System Operating Efficiency and Performance Data 4-4

5. Conclusions..... 5-1

6. Future Activities 6-1

 6.1 Groundwater and Surface Water Monitoring 6-1

 6.2 System Operation and Maintenance..... 6-1

7. References 7-1

Appendixes

- A Field Notes, Gauging Sheets, and Purge Logs
- B Analytical Laboratory Reports
- C Operation and Maintenance Logs
- D Surface Water Analytical Trends
- E Product Thickness Trends
- F Groundwater Analytical Trends

Tables

- 1 Field Observation Log
- 2 Product Recovery Results
- 3 Analytical Results for Surface Water
- 4 Groundwater Elevation and Product Thickness Data
- 5 Dissolved Oxygen Results for Groundwater
- 6 Analytical Results for Groundwater
- 7 Well Construction Information
- 8 Cumulative Product Shipped from the Site
- 9 Stream Gauge Construction Information
- 10 Revised Groundwater Monitoring Plan

Figures

- 1 Site Overview
- 2A Residuum Groundwater and Surface Water Elevation Map
- 2B Bedrock Groundwater Elevation Map
- 3 Product Thickness Map
- 4A Groundwater Analytical Results in Residuum Aquifer, June, September/October, and December 2018
- 4B Groundwater Analytical Results in Bedrock Aquifer, June, September, and December 2018

Acronyms and Abbreviations

µg/L	microgram(s) per liter
1,2-DCA	1,2-dichloroethane
BCPZ	Brown's Creek Protection Zone
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CAP	Corrective Action Plan
CCPZ	Cupboard Creek Protection Zone
CH2M	CH2M HILL Engineers, Inc., now part of Jacobs Engineering Group Inc.
COC	chain-of-custody
DHEC	South Carolina Department of Health and Environmental Control
DO	dissolved oxygen
DOT	Department of Transportation
EPA	U.S. Environmental Protection Agency
HAS	horizontal air sparging
HSA	hollow-stem auger
ID	identification
Jacobs	Jacobs Engineering Group Inc.
mg/L	milligram(s) per liter
MTBE	methyl tertiary butyl ether
O&M	operation and maintenance
PID	photoionization detector
Plantation	Plantation Pipe Line Company
QAPP	Quality Assurance Project Plan
SBZ	Shallow Bedrock Zone
scfm	standard cubic feet per minute
scfm/ft	standard cubic feet per minute per foot
TSL	Target Screening Level
UIC	underground injection control
UST	underground storage tank
VAS	vertical air sparging

1. Introduction

On behalf of Plantation Pipe Line Company (Plantation), CH2M HILL Engineers, Inc. (CH2M), now part of Jacobs Engineering Group Inc. (Jacobs), is submitting this Fourth Quarter 2018 Monitoring Report for the Lewis Drive Remediation Site in Belton, South Carolina. This report summarizes the work performed at the site between October 1, 2018, and December 31, 2018.

On December 8, 2014, a release of an estimated 8,800 barrels (369,600 gallons) of gasoline and a small amount of diesel fuel (Plantation, 2015) was discovered from Plantation's 26-inch product pipeline near Lewis Drive in Belton, South Carolina (Figure 1). The release point is located on the pipeline right-of-way between Lewis Drive, a rural two-lane undivided asphalt road to the south, and a hayfield to the north. The release location and site features (including the location of monitoring wells, recovery sumps, temporary wells [piezometers], recovery trenches, recovery wells, vertical air sparging [VAS] wells, and horizontal air sparging [HAS] wells) are shown on Figure 1.

This site has been designated by the South Carolina Department of Health and Environmental Control (DHEC) as Site Number 18693 "Kinder Morgan Belton Pipeline Release." This Fourth Quarter 2018 Monitoring Report was prepared in accordance with the Corrective Action Plan (CAP) (CH2M, 2016b), CAP Addendum, Revision 1 (CH2M, 2017a), CAP Addendum, Revision 2 (CH2M, 2017c), Comprehensive Site Assessment Report (CH2M, 2016a), and project Quality Assurance Project Plan (QAPP), Revision 4 (CH2M-Jacobs, 2018b). Correspondence between Plantation and DHEC during this reporting period is summarized below:

- October 5, 2018 – Plantation submitted its response to the DHEC request for revised 1903 water well record forms in DHEC's Letter titled "Completed Well Forms Request" dated September 26, 2018 (CH2M-Jacobs, 2018e).
- November 28, 2018 – Plantation submitted a letter to DHEC titled "Request for Well Permit to Install Additional Monitoring Wells, Advance and Soil Boring, and Abandon Select Product Recovery Features" dated November 28, 2018 (CH2M-Jacobs, 2018f).
- December 3, 2018 – Plantation submitted Lewis Drive Spill Clean Up Stormwater Management and Sediment Control Application, Major Modification 5 - SWPPP Permit No. STW0315-09 (with Notice of Intent [NOI] Form 2617) to Anderson County (CH2M-Jacobs, 2018g).
- December 18, 2018 – DHEC provided *Reviews of Misc. Reports, Annual Report and Response to Comments*, dated December 11, 2018 (DHEC, 2018b).

2. Work Activities

The following remedial activities were performed during the fourth quarter 2018 in accordance with the CAP (CH2M, 2016b), CAP Addendum, Revision 1 (CH2M, 2017a), CAP Addendum, Revision 2 (CH2M, 2017c), and project QAPP, Revision 4 (CH2M-Jacobs, 2018b):

- Performed continuous free product recovery from canisters and petroleum-absorbent socks in 18 wells at the site. Canisters were emptied quarterly, recording the volume of product collected from each well. Product recovered from the absorbent socks was measured by weighing the absorbent socks before and after placement in each well.
- Collected groundwater samples in October 2018 from the four newly installed monitoring wells: MW-51, MW-52, MW-53, and MW-54.
- Conducted two limited and one sitewide groundwater sampling events and one surface water sampling event. This included select gauging in November 2018 and sitewide gauging in December 2018, as well as inspections of surface water features at Brown's Creek and Cupboard Creek during each site visit.
- Recorded changes in groundwater levels and barometric pressures in eight monitoring wells using In Situ Rugged Troll 100 data loggers. Six monitoring well locations (MW-02, MW-12, MW-25, MW-29, MW-39, and MW-40) contained water level data loggers and two monitoring well locations (MW-01 and MW-10) contained barometric pressure loggers.
- Operated VAS wells in the areas of Brown's Creek and Cupboard Creek (Figure 1).
- Operated stream aerators in Brown's Creek.
- Operated three HAS wells in the Hayfield Zone (Figure 1).
- Performed routine operation and maintenance (O&M) on the air sparging system.
- Initiated construction of a biosparging system expansion, including 13 new VAS wells along with the respective trenching and piping necessary to connect the new wells to the existing biosparging system.

3. Work Procedures

3.1 Gauging Events

Monitoring wells, surface water locations, piezometers, and product recovery features (recovery sumps, trenches, and wells) were gauged during the December 2018 quarterly event. Recovery features and select monitoring wells were gauged during the October and November 2018 monthly events. During the quarterly sitewide gauging event, dissolved oxygen (DO) measurements were recorded for select wells using an in-well YSI ProODO meter. Field observations made during this reporting period are summarized in Table 1. Field forms and notes for this reporting period are included in Appendix A.

3.2 Product Recovery

Product recovery was performed continuously in the Brown's Creek Protection Zone (BCPZ) and Cupboard Creek Protection Zone (CCPZ) in recovery wells, sumps, and trenches (Table 2) in accordance with the *Free-Product Recovery Plan – Revision 4* (CH2M-Jacobs, 2018a). Recovery features have either product recovery canisters, absorbent socks, or skimmers for optimum product recovery and quantification at each recovery feature. During each monthly recovery event, the field team recorded the product recovered from each recovery device (Table 2). The amount of recovered product from the canisters was tracked by measuring the fluid volume from the skimmers in a stainless-steel measuring cup and placing the fluid in a metal 5-gallon bucket. The amount of recovered product from the absorbent socks was measured by weighing the absorbent socks before and after deployment into the recovery feature. Recovered fluids from the skimmers were placed into the onsite poly tanks for temporary storage, separation, and eventual offsite disposal. Used absorbent socks were placed in a Department of Transportation (DOT)-approved, 55-gallon steel drum for offsite disposal.

3.3 Surface Water

Inspections of surface water features were performed during the December 2018 monitoring event. The inspection route used is illustrated on Figures 1, 2A, and 2B. The air sparging system, including the stream aerators, was operating during this reporting period.

Surface water samples were collected in December 2018 at locations shown on Figure 2A. Surface water samples during this reporting period were scheduled to be collected from 17 locations. However, further sampling was discontinued at location SW-06 in Cupboard Creek and locations FP-01, FP-02, and FP-03 in Brown's Creek as agreed upon by DHEC (DHEC, 2018b).

Surface water samples were collected in accordance with the project QAPP, Revision 4 (CH2M-Jacobs, 2018b), and were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, and methyl tertiary butyl ether (MTBE) using U.S. Environmental Protection Agency (EPA) Method 8260B (see Table 3). The samples were packed in wet ice and transported by FedEx under standard chain-of-custody (COC) procedures to Pace Analytical Services in Mount Juliet, Tennessee. Field notes are included in Appendix A. Laboratory reports for surface water samples and COC records for this reporting period are included in Appendix B. Laboratory results are summarized in Table 3.

3.4 Groundwater Sampling Events

Three groundwater sampling events were performed during this reporting period:

- October 5, 2018 (Event 1, for newly installed monitoring wells only – MW-51, MW-52, MW-53, and MW-54)
- November 2, 2018 (Event 2, select wells – MW-17B, MW-23, MW-34, MW-40, and MW-46 following purging)
- December 5 through 7, 2018 (Event 3, sitewide quarterly event)

The air sparging system, including the stream aerators, was operating during these monitoring events.

A comprehensive round of groundwater gauging was conducted prior to the quarterly sampling event, and select wells were gauged during the October and November 2018 events using an oil-water interface probe to measure the depth to water and test for the presence and thickness (if present) of product. The oil-water interface probe was decontaminated before each use and after the final measurement. Decontamination was performed in accordance with the DHEC *Programmatic Quality Assurance Program Plan, Revision 3.1* (Programmatic QAPP) or project QAPP, Revision 4 (CH2M-Jacobs, 2018b) as applicable. Groundwater elevation and product thickness data are summarized in Table 4. Gauging sheets and field notes for this reporting period are included in Appendix A. Figures 2A and 2B show residuum and bedrock groundwater elevations, respectively. Figure 3 presents measurable product data for the site.

Monitoring wells without free product were sampled using either a HydraSleeve, a peristaltic pump using low-flow purge, or a submersible pump (Event 2 only). Purge logs for wells that were sampled with a pump are provided in Appendix A. With the exception of the wells sampled during Event 2, the height of the water column in the well dictated using either a HydraSleeve or a peristaltic pump according to the following:

- Water column greater than 3 feet: A HydraSleeve was used to collect an undisturbed groundwater sample from the well, in accordance with the project QAPP, Revision 4 (CH2M-Jacobs, 2018b). A HydraSleeve was installed to the midpoint of the screened interval and immediately recovered. The water in the HydraSleeve was then used to fill the sample containers.
- Water column less than 3 feet but greater than 0.5 foot: A peristaltic pump was used to purge the well, while field parameters (including DO concentrations) were measured using a YSI 6920 V2-2 Multi-Parameter Water Quality Sonde meter to confirm stabilization of the groundwater, in accordance with the Programmatic QAPP (South Carolina UST Management Division, 2016). After the water quality parameters stabilized, a sample was collected from the well using the straw method in accordance with the Programmatic QAPP. Upon stabilization, the field parameters were recorded on a separate purge log. DO measurements are summarized in Table 5.
- Water column less than 0.5 foot: The well was reported and documented in the field logbook as insufficient water, was not sampled, and DO measurements were not collected.

Samples were labeled, packed with wet ice, and transported by FedEx under standard COC procedures to Pace Analytical Services in Mount Juliet, Tennessee. Samples were analyzed for BTEX, 1,2-dichloroethane (1,2-DCA), MTBE, and naphthalene using EPA Method 8260B. Field notes and purge logs are included in Appendix A. Laboratory reports for groundwater samples and COC records are included in Appendix B. Laboratory results are summarized in Table 6.

3.5 Air Sparging System Operation and Maintenance

Routine O&M activities and inspections were performed during this reporting period. O&M logs for October through December 2018 are provided in Appendix C. Air sparging activities are summarized by remediation area below. When air sparging rates were increased in zones of the site, air monitoring was performed with a photoionization detector (PID) and visual observations were made in the areas where flow rates were adjusted.

- BCPZ: Air sparging in the BCPZ was performed using 26 VAS wells screened from 13.0 to 71.5 feet below ground surface (bgs). The flow rates in these wells averaged 6.89 standard cubic feet per minute (scfm) per sparge well during the reporting period. Additionally, air was injected into two submersible diffusion aerators installed in Brown's Creek. The flow rates in these aerators averaged 10.94 scfm each during this reporting period.
- CCPZ: Air sparging in the CCPZ was performed using a curtain of 19 VAS wells screened from 9.5 to 31.2 feet bgs. The flow rates in these wells averaged 6.49 scfm per sparge well during this reporting period.

- Hayfield Zone: Air sparging in the Hayfield Zone was performed using three horizontal wells (HAS-01, HAS-02, and HAS-03), which have screen lengths of approximately 752, 715, and 377 feet, respectively. The flow rates in each of the three horizontal wells (HAS-1, HAS-2, and HAS-3) were maintained at approximately 0.69 scfm per foot of screen (scfm/ft) during this reporting period, resulting in the following approximate flows: 513, 488, and 263 scfm per well, respectively.

Groundwater levels were measured in the BCPZ, CCPZ, and Hayfield Zone to evaluate the influence of the air sparging system on the residuum aquifer. Water level data loggers (In Situ Rugged Troll 100) have measured groundwater elevations continuously at various locations around the site. During this reporting period, data loggers were positioned in MW-02, MW-12, MW-25, MW-29, MW-39, and MW-40, and two barometric pressure loggers were positioned in MW-01 and MW-10.

3.6 Additional Activities

During the previous reporting period (third quarter 2018), 13 VAS wells were installed at the site, as approved by DHEC in a letter dated June 26, 2018 (DHEC, 2018b). Specifically, 13 additional VAS wells were installed to the top of bedrock (VAS-47 through VAS-59) between August 14 and September 7, 2018, in the BCPZ, CCPZ, and Shallow Bedrock Zone (SBZ). Eight of the 13 additional VAS wells (VAS-47 through VAS-54) were installed upgradient of the existing air sparging curtain along the west bank of Brown's Creek to address contamination in this area of the BCPZ and SBZ. The remaining five VAS wells (VAS-55 through VAS-59) were installed northwest of the air sparging curtain located north of Cupboard Creek to treat contamination in this area of the CCPZ. For this reporting period, the 13 VAS wells were connected to the existing sparging system between November 2018 and January 2019.

Jacobs submitted a letter to the DHEC Bureau of Air Quality on October 12, 2018, requesting an exemption from a DHEC air permit for the biosparging system. On February 26, 2019, Jacobs submitted a follow-up letter to the Bureau of Air Quality for confirmation that the proposed emissions related to the biosparging system operation would be exempt from a DHEC air permit. Additionally, on March 26, 2019, Jacobs submitted a letter to the DHEC Bureau of Water, Water Monitoring Assessment and Protection Division requesting that the existing underground injection control (UIC) permit-to-construct (No. SCHE03020469M2) be updated to a final permit-to-operate; attached to the letter was a DHEC Form 1903 providing the VAS well construction details for AS-47 through AS-59.

Upon receipt of the final permit-to-operate, Jacobs will prepare a startup plan and VAS well operations schedule compliant with the allowable emissions specified in the South Carolina Code of Regulations, Chapter 61, Article 62 for discharge of volatile organic compounds and toxic air pollutants. Upon air sparging startup, Jacobs will conduct a phased startup of the 13 air sparging wells over the course of approximately 2 weeks to monitor emissions associated with the additional air sparging wells.

4. Discussion of Results

4.1 Product Recovery

During this fourth quarter 2018 reporting period, only 1.53 gallons of product were recovered at the site, with 75 percent of that recovered from RW-05 and RS-08. The overall product recovery across the site decreased by 0.91 gallon compared to the previous quarter as noted in Table 2. Product thicknesses continue to be minimal across the site. Measurable thicknesses in December 2018 ranged from 0.01 foot (at RS-02 and RW-14) to 0.55 foot (at RS-05). Measurable product thicknesses were observed at only 8 of the 161 features monitored. Free product levels are presented alongside well gauging data in Table 4.

In December 2018, no recovery wells/features within the BCPZ or the CCPZ contained measurable product.

Table 2 shows the dates and quantities of product that was recovered. Table 7 shows the dates and quantities of product that was shipped offsite for disposal. Field notes for this reporting period are included in Appendix A.

4.2 Surface Water

No signs of distressed vegetation, hydrocarbon sheens, or odors were observed during the surface water inspections for this reporting period. Observations made during this reporting period are summarized in Table 1. Field notes for this reporting period are included in Appendix A.

During this reporting period, dissolved hydrocarbons were detected in surface water at 3 of the 15 locations sampled: SW-02, SW-13, and SW-14 (Table 3). Benzene at SW-02 was the only constituent that exceeded the surface water standard for protection of human health for consumption of water and organisms (DHEC, 2014) and will continue to be monitored. Plantation has contracted Environmental Standards, Inc., to perform a forensic review of the detections at SW-02 and SW-12 as was conducted in early 2018 (Environmental Standards, Inc., 2018). The chemical profiles of SW-02 and SW-12 will be compared to determine if the chemical profiles are still unrelated.

Surface water sample results are summarized in Table 3. Trends for surface water sampling locations SW-01, SW-02, SW-04, SW-12, SW-13, and SW-14 are presented in Appendix D. Construction details for the stream gauges are presented in Table 8. Field notes for this reporting period are included in Appendix A. Analytical data sheets and COC records are included in Appendix B.

4.3 Groundwater Flow

Water level data from the December 2018 gauging event were used to create potentiometric surface maps for the site (Figures 2A and 2B). Groundwater flow in both the residuum (Figure 2A) and bedrock (Figure 2B) aquifers mimics the topography of the site and generally flows from topographic highs to topographic lows. Cupboard Creek flows intermittently, indicating the primary direction of groundwater flow is northeast toward Brown's Creek. The December 2018 water table configurations and direction of groundwater flow are consistent with previous findings.

Stream elevations are tabulated in Table 4 and are presented with groundwater elevations on Figure 2A. Construction details for recovery and nonrecovery features are presented in Table 9.

Gauging sheets for this reporting period are included in Appendix A. Hydrographs for nonrecovery (monitoring wells and piezometers) and recovery features representative of general product thickness trends are presented in Appendix E.

4.4 Dissolved Oxygen Distribution

Overall during this reporting period, the average DO concentration stabilized in the residuum and bedrock wells with minor variations noted at each of the site's remediation zones. Overall trends in each remediation zone are discussed below. DO measurements in groundwater are provided in Table 5. Field notes for this reporting period are included in Appendix A.

4.4.1 Brown's Creek Protection Zone

The average DO levels in the BCPZ decreased from 4.03 mg/L in September 2018 to 3.14 mg/L in December 2018.

4.4.2 Cupboard Creek Protection Zone

The average DO concentrations in the CCPZ increased from 3.74 mg/L in September 2018 to 4.57 mg/L in December 2018.

4.4.3 Hayfield Zone

The average DO concentrations in the Hayfield Zone were stable at 8.36 mg/L in September 2018 to 8.13 mg/L in December 2018.

4.4.4 Shallow Bedrock Zone

DO levels in this zone (partially weathered bedrock or competent bedrock proximal to ground surface) decreased from 3.13 mg/L in September 2018 to 1.52 mg/L in December 2018.

4.5 Groundwater Monitoring Results

Groundwater monitoring results for this reporting period indicate significant decreases in dissolved concentrations of hydrocarbons in the BCPZ, CCPZ, and Hayfield Zone, as well as stable trends in the SBZ, bedrock wells, and other locations outside the direct influence of the air sparging systems. Table 6 presents analytical results for all groundwater samples that have been collected at the site since July 2015. Laboratory analytical reports for the sampling events for this reporting period are provided in Appendix B. Groundwater analytical results are screened against the risk-based screening levels listed in the Programmatic QAPP, Table D1 (South Carolina UST Management Division, 2016), referred to as Target Screening Levels (TSLs), and are provided at the top of Table 6. The December 2018 results, along with the two previous quarterly results, are shown on Figures 4A and 4B. The December 2018 results are summarized in the following sections. Trend plots for select groundwater monitoring wells are provided in Appendix F. The gray shaded area on the trend charts notes the operational period of the air sparging system. Trends plots for monitoring wells that have been nondetect since sampling began are not presented on the trend charts. Field notes and purge logs for this reporting period are included in Appendix A.

4.5.1 Brown's Creek Protection Zone

Dissolved concentrations continue to show an overall decreasing trend in the residuum groundwater of the BCPZ aquifer. For example, in monitoring wells MW-15, MW-34, MW-40, and MW-42, benzene concentrations have decreased by one to three orders of magnitude and benzene is now nondetect for the first time at MW-34 and MW-40, and for the first time at MW-15 since December 2017. Concentrations of BTEX constituents in MW-12 that were stable from September 2017 to March 2018, have decreased since June 2018 with only benzene above its TSL.

Benzene concentrations show a slight decrease in MW-12B and MW-15B. Benzene was nondetect in the other bedrock monitoring wells in December 2018.

Benzene was detected above TSLs in 4 of 15 residuum monitoring wells in the BCPZ (MW-12, MW-28, MW-38, and MW-39), ranging from 5.81 micrograms per liter ($\mu\text{g/L}$) to 412 $\mu\text{g/L}$. MTBE was detected

above its TSL in MW-34, MW-38, and MW-39, ranging from 89.7 µg/L to 156 µg/L. All constituents are nondetect in cross-gradient monitoring wells MW-37 (to the north) and MW-35 (to the south). All constituent concentrations in monitoring wells MW-24, MW-25, MW-41, MW-42, MW-43, and MW-49 have been nondetect since mid-2018.

4.5.2 Cupboard Creek Protection Zone

Since air sparging was initiated in March 2017, dissolved concentrations in the CCPZ have stabilized in residuum wells (MW-19, MW-20, MW-23, MW-26, MW-29, and MW-46). MW-19 has not been sampled on a regular frequency due to insufficient water; however, it was sampled in July 2018 with no detections above TSLs. Since the installation of MW-46 in September 2017, benzene concentrations had been increasing from 4.97 µg/L in December 2017 to 1,790 µg/L in November 2018; however, it has since decreased to 1,250 µg/L in December 2018. Additionally, MTBE concentrations had also increased from 85.5 µg/L in December 2017 to 299 µg/L in November 2018, but showed a slight decrease in December 2018. The December 2018 concentrations for benzene and MTBE were above their respective TSLs (5 µg/L and 40 µg/L) but showed a decrease from the November 2018 sampling event.

MW-20 has not been sampled since its installation in July 2015 to June 2018 due to the presence of free product. However, it was sampled in July 2018 with exceedances for BTEX and MTBE. During the December 2018 event, product sheen was observed to be present in MW-20 and was confirmed via bailer inspection. Downgradient monitoring wells MW-23, MW-26, and MW-29 were nondetect for all constituents.

No constituents were detected above TSLs in bedrock monitoring wells (MW-23B and MW-26B) in the CCPZ.

4.5.3 Hayfield Zone

A significant decreasing trend of TSLs was observed in the residuum groundwater of the Hayfield Zone, with reduced concentrations and reduced number of detected constituents exceeding TSLs. For example, 25 of the 36 monitoring wells sampled in the Hayfield Zone are below their respective TSLs, and dissolved constituent concentrations have decreased by three orders of magnitude since the initialization of the horizontal sparging wells in 2017.

In the Hayfield Zone, 5 of the 22 residuum monitoring wells had benzene detected above the TSL. Toluene concentrations exceeded the TSL in MW-07, and naphthalene concentrations exceeded the TSL in MW-16. TSL exceedances for residuum monitoring wells are shown in the table below.

Well	Date	Units	Benzene	Toluene	MTBE	Naphthalene
TSL			5	1,000	40	25
MW-07	12/6/2018	µg/L	4,850	13,400	1 U	500 U
MW-09	12/6/2018	µg/L	6.39	48.3	5.68	6.79
MW-13	12/7/2018	µg/L	83.4	158	1 U	5 U
MW-16	12/6/2018	µg/L	10.3	132	5 U	460
MW-36	12/6/2018	µg/L	143	175	1 U	5 U

Gray shading indicates the analyte exceeded TSL

U = analyte was not detected above the reported sample quantitation limit

Three residuum monitoring wells in the Hayfield Zone were not sampled because of insufficient water (MW-17) and the presence of product (MW-08 and MW-18). The thickness of product at MW-18 was measured at 0.02 foot; product could not be measured at MW-08 with the interface probe, but product sheen was confirmed with a bailer. The analytical results for MW-51, MW-52, MW-53, and MW-54 installed in late August / early September 2018 have remained below the TSLs as of this monitoring event.

In bedrock wells, benzene was detected above its TSL in 3 of 10 wells, ranging in concentration from 27.4 µg/L in MW-50B to 6,860 µg/L in MW-17B during the December 2018 event. Concentrations of ethylbenzene, toluene, and MTBE exceeded the TSLs at MW-17B. MTBE also exceeded its TSL in MW-13B and MW-50B. At bedrock wells outside the direct influence of the air sparging system, only MW-07, MW-13, MW-13B, MW-17B, and MW-36 have had concentrations of BTEX, MTBE, and/or naphthalene significantly above TSLs since their installation to the December 2018 event. These wells will continue to be evaluated.

4.5.4 Shallow Bedrock Zone

In the SBZ of the residuum aquifer, MW-11 was not sampled due to confirmation of product sheen with a sample bailer. All other residuum wells in the SBZ had constituent concentrations below TSLs. In bedrock wells, benzene was detected above its TSL only in MW-1B, which is one of three wells in the SBZ, at a concentration of 8.3 µg/L.

4.6 Air Sparging System Operating Efficiency and Performance Data

Between October 1 and December 31, 2018, the air sparging system operated a total of 4,348.3 hours, with an operating uptime of 63 percent. Overall, the air sparging system operating uptime was lower than previous quarters because the air sparging system was not operating while the VAS expansion was under construction; however, the HAS system continued operation without any unscheduled downtime during the VAS expansion and this reporting period.

Since the air sparging system uses two compressors, system maintenance activities are conducted with no scheduled O&M system downtime. Air sparging flow rates for this reporting period in the stream aerators, horizontal wells, and vertical wells were at 73 percent, 92 percent, and 45 percent of design flow capacity, respectively.

5. Conclusions

The following conclusions are based on data analysis for work performed between October 1, 2018, and December 31, 2018:

- Since starting the air sparging system at the site on March 6, 2017 (VAS in the BCPZ and CCPZ areas) and in May 2017 (horizontal sparging system in the Hayfield Zone), product thickness values have substantially declined in both recovery and nonrecovery features across the site. The number of locations with product thicknesses greater than 0.5 foot has decreased from seven locations in March 2018, to one location in June 2018 through December 2018. The site features that have measurable product thickness are not adjacent to any surface water bodies at the site.
- The volume of product recovered between October and December 2018 was 1.53 gallons, which is 0.91 gallon less than that of the previous quarter. The majority of the product (75 percent) came from RW-05 and RS-08.
- One surface water sampling event was performed during this quarter (December 2018). The benzene exceedance at SW-02 will continue to be monitored and is being reviewed by Environmental Standards, Inc., to determine if the chemical profiles of SW-02 and SW-12 are still unrelated.
- The average DO concentration in residuum and bedrock wells has remained stable for this reporting period. This demonstrates the effectiveness of the air sparging system at introducing air into the subsurface. Air sparging in the VAS wells and stream aerator locations will be increased to design flow rates during the next quarter because the VAS wells were shut down during the VAS system expansion. The design flow rates have been met and sustained at the horizontal wells.
- The remedial efforts are protecting potential receptors as planned. Groundwater monitoring results for this reporting period indicate that the air sparging system continues to decrease dissolved concentrations of hydrocarbons in the BCPZ, CCPZ, and Hayfield Zone, while creating stable trends in the SBZ, bedrock wells, and at other site feature locations outside the direct influence of the air sparging system. For example, concentrations in MW-34 and MW-40 dropped significantly during the December 2018 event and are nondetect for the first time since sampling began at these locations. Concentrations in MW-15, MW-19, MW-23, and MW-27 are now below TSLs.
- The analytical results for new monitoring wells MW-51 and MW-52 have been below the TSLs for all constituents since they were installed in late August / early September 2018. These two monitoring wells delineate the dissolved phase plume to the northwest and southwest of Brown's Creek.
- The analytical results for new monitoring wells MW-53 and MW-54 have been below the TSLs for all constituents since they were installed in late August / early September 2018. These two monitoring wells delineate the dissolved phase plume to the north of the HAS system. Additionally, MW-54 improves monitoring in the area of MW-30, which can have periods of insufficient water for sample collection.
- During this reporting period, the air sparging system had an operating uptime of 63 percent. Operating flows in the stream aerators, horizontal wells, and vertical wells were at 73 percent, 92 percent, and 45 percent of design flow capacity, respectively. Overall, the air sparging system operating uptime was lower than previous quarters because the VAS system was not operating during the VAS expansion construction; however, the HAS system continued operation without any unscheduled downtime during the VAS expansion and this reporting period.

6. Future Activities

This section describes future activities planned for the site.

6.1 Groundwater and Surface Water Monitoring

- Continue gauging of monitoring wells and surface water sampling locations in accordance with the CAP Addendum, Revision 2 (CH2M, 2017c) submitted to DHEC on October 12, 2017, and with the revised groundwater monitoring plan table requested in the January 22, 2019, DHEC letter and included in this report as Table 10.
- Sample groundwater and surface water on a quarterly basis in accordance with Section 3 and Table 2 of the CAP Addendum, Revision 2 (CH2M, 2017c), and Table 10 of this report.
- Collect groundwater from select monitoring wells and surface water sampling locations according to the mid-quarter schedule proposed in letters to DHEC dated January 16, 2019, and February 20, 2019. The wells and sampling locations are listed in Table 10.
- Collect DO measurements on a quarterly basis in accordance with Section 3 and Table 2 of the CAP Addendum, Revision 2 (CH2M, 2017c).
- Submit quarterly reports in accordance with Section 3 and Table 2 of the CAP Addendum, Revision 2 (CH2M, 2017c).
- Continue routine visual inspection of Brown's Creek and Cupboard Creek as outlined in the CAP Addendum, Revision 2 (CH2M, 2017c).
- Continue to sample the newly installed monitoring wells (MW-51, MW-52, MW-53, and MW-54) as part of the quarterly gauging and sampling events.
- Install additional monitoring wells MW-55 (west of MW-36), MW-56, and MW-57 (southwest and west of MW-46, respectively), and advance one soil boring to the top of bedrock (east side of Brown's Creek near SW-02) to better define top of bedrock in this area of the site.
- Abandon the remaining 1-inch-diameter wells (piezometers) at the site. These 1-inch piezometers were installed initially during the emergency response for defining the potentiometric surface at the site and they are not representative for gauging product thickness measurements. The existing 2-inch monitoring well network is representative for gauging groundwater elevation and product thickness measurements, rendering the 1-inch wells no longer necessary.
- Abandon monitoring wells MW-17 and MW-19 without replacement. These wells have consistently demonstrated insufficient groundwater for sample collection, and additional downgradient and cross-gradient wells have since been installed in the vicinity that provide sufficient water for groundwater sampling purposes.
- Analyze concentration trends in the monitoring well network to identify areas for additional remediation, if necessary, and to optimize the monitoring well network.

6.2 System Operation and Maintenance

- Begin operation of the 13 new VAS wells installed during the expansion of the VAS biosparging system, following approval from the DHEC Bureau of Air Quality. (Note that this expansion of the air sparging system requires an air permit exemption and a final UIC permit-to-operate prior to system startup.)
- Continue scheduled O&M activities for the air sparging system to optimize performance.
- Continue air sparging in the BCPZ and CCPZ up to the maximum design flow rate of 15 scfm per well.
- Continue air sparging in the horizontal wells in the Hayfield Zone up to the maximum design flow rate of 0.75 scfm/ft.

- Continue operating the stream diffusion aerators at the design flow rate of 15 scfm if sufficient surface water is available.
- Remove the 43 site features in accordance with South Carolina Well Standards, Regulation R.61-71, of the Official Code of South Carolina, as presented in the letter sent to DHEC on November 28, 2018.

7. References

CH2M HILL Engineers, Inc. (CH2M). 2016a. *Comprehensive Site Assessment Report, Lewis Drive Release Site, Belton, South Carolina. Site ID Number 18693 ("Kinder Morgan Belton Pipeline Release")*. July.

CH2M HILL Engineers, Inc. (CH2M). 2016b. *Corrective Action Plan, Lewis Drive Release Site, Belton, South Carolina. Site ID Number 18693 ("Kinder Morgan Belton Pipeline Release")*. September 1.

CH2M HILL Engineers, Inc. (CH2M). 2017a. *Corrective Action Plan Addendum, Revision 1, Plantation Pipe Line Company, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* May 25.

CH2M HILL Engineers, Inc. (CH2M). 2017b. *Sparging Operating Limits, Plantation Pipe Line Company, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* July 26.

CH2M HILL Engineers, Inc. (CH2M). 2017c. *Corrective Action Plan Addendum, Revision 2, Lewis Drive Remediation Site, Belton, South Carolina. Site ID Number 18693 ("Kinder Morgan Belton Pipeline Release")*. October 12.

CH2M HILL Engineers, Inc. (CH2M-Jacobs). 2018a. *Free-Product Recovery Plan – Revision 4, Lewis Drive Remediation, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* February 6.

CH2M HILL Engineers, Inc. (CH2M-Jacobs). 2018b. *Quality Assurance Project Plan, Revision 4. Addendum to the DHEC UST Programmatic Quality Assurance Program Plan for Plantation Pipe Line Company/Site ID No. 18693.* February 9.

CH2M HILL Engineers, Inc. (CH2M-Jacobs). 2018c. *Free-Product Recovery Plan, Revision 4., Lewis Drive Remediation Site, Plantation Pipe Line Company, Belton, South Carolina. Site ID Number 18693, "Kinder Morgan Belton Pipeline Release."* February 8.

CH2M HILL Engineers, Inc. (CH2M-Jacobs). 2018d. *Response to Comments in DHEC Letter titled "Reviews of Requests for Injection Wells, Pumping of Monitoring Wells and Monthly Status Reports," dated June 26, 2018.* July 24.

CH2M HILL Engineers, Inc. (CH2M-Jacobs). 2018e. *Response to DHEC Request for Revised 1903 Water Well Record Forms (in DHEC Letter titled "Completed Well Forms Request," dated September 26, 2018).* October 5.

CH2M HILL Engineers, Inc. (CH2M-Jacobs). 2018f. *Letter to DHEC, "Request for Well Permit to Install Additional Monitoring Wells, Advance and Soil Boring, and Abandon Select Product Recovery Features."* November 28.

CH2M HILL Engineers, Inc. (CH2M-Jacobs). 2018g. *Lewis Drive Spill Clean Up Stormwater Management and Sediment Control Application, Major Modification 5 - SWPPP Permit No. STW0315-09 (with Notice of Intent [NOI] Form 2617).* December 3.

Environmental Standards, Inc. 2018. *Technical Memorandum – Review of Surface Water Data.* January 17.

Plantation Pipe Line Company (Plantation). 2015. *Department of Transportation (DOT) Form 7000.1 Accident Report - Hazardous Liquid Pipeline Systems. Submitted to the DOT Pipeline and Hazardous Materials Safety Administration (PHMSA).* January 7.

South Carolina Department of Health and Environmental Control (DHEC). 2014. *R. 61-68, Water Classifications & Standards*. June 27.

South Carolina Department of Health and Environmental Control (DHEC). 2016. *R. 61-71, Well Standards*. May 27.

South Carolina Department of Health and Environmental Control (DHEC). 2018a. Monitoring Well Approval Form, Approval #: MW-11508. April 11.

South Carolina Department of Health and Environmental Control (DHEC). 2018b. Reviews of Misc. Reports, Annual Report and Response to Comments. December 11.

South Carolina Underground Storage Tank (UST) Management Division. 2016. *Programmatic Quality Assurance Program Plan, Revision 3.1*. February.

Tables

Table 1. Field Observation Log

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Date	Inspect Wetlands South of Calhoun Road (Any odor, sheen or distressed vegetation? Describe.)	Inspect Brown's Creek Upstream and Downstream of the Culvert Under Lewis Drive (Any odor, sheen or distressed vegetation? Describe.)
12/3/2018	No odors, sheens, or distressed vegetation observed in wetlands South of Calhoun Road.	No odors, sheens, or distressed vegetation observed in wetlands either upstream or downstream of Culvert under Lewis Drive.

Note:

ID = identification

RT = recovery trench

Table 2. Product Recovery Results

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Well Identifier	Week 1 Volume Recovered (gal)	Week 2 Volume Recovered (gal)	Week 3 Volume Recovered (gal)	Week 4 Volume Recovered (gal)	Week 5 Volume Recovered (gal)	Week 6 Volume Recovered (gal)	Week 7 Volume Recovered (gal)	Week 8 Volume Recovered (gal)	Week 9 Volume Recovered (gal)	Week 10 Volume Recovered (gal)	Week 11 Volume Recovered (gal)	Week 12 Volume Recovered (gal)	Week 13 Volume Recovered (gal)	Total Recovered to Date (gal)
Date	2/20/2018	2/26/2018	3/9/2018	3/15/2018	4/6/2018	5/3/2018	6/7/2018	7/13/2018	8/1/2018	9/11/2018	10/5/2018	11/1/2018	12/4/2018	
Product Skimmers														
MW-08	-	-	-	-	0.001	-	-	-	-	-	-	-	-	0.001
MW-15	-	-	0.023	0.004	-	-	-	-	-	-	-	-	-	0.027
MW-20	0.004	0.017	0.016	-	0.002	-	0.008	-	-	-	-	-	-	0.046
RS-01	NA	NA	0.031	0.008	-	-	-	0.031	0.016	0.008	-	0.002	-	0.095
RS-02	-	-	0.001	-	-	-	0.008	0.016	0.016	-	-	0.002	-	0.041
RS-05	0.844	0.813	1.094	1.125	0.031	0.002	0.008	0.004	0.023	0.016	0.004	0.002	0.002	3.966
RS-10	0.002	-	-	-	0.008	-	-	-	0.004	0.002	0.000	-	-	0.016
RS-14	0.016	-	-	-	-	-	0.008	0.002	0.004	-	-	-	-	0.029
RS-17	-	-	0.001	-	-	-	0.008	0.002	-	-	-	-	-	0.010
RW-02	-	0.090	0.047	-	0.033	-	0.008	0.001	0.016	0.023	-	-	0.002	0.219
RW-03	-	-	0.008	0.008	0.002	-	0.008	0.001	0.004	0.006	0.000	-	-	0.036
RW-04	-	0.008	0.016	-	0.001	-	0.016	0.023	0.008	-	0.000	-	-	0.071
RW-05	-	0.016	0.016	0.656	-	0.001	0.018	-	0.047	0.031	0.508	0.000	0.156	1.449
RW-07	0.002	-	0.008	-	-	-	-	-	0.004	0.001	-	-	-	0.014
RW-08	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RW-15	0.078	-	-	0.117	0.031	0.002	-	0.008	-	0.002	0.000	-	-	0.238
RW-10	-	-	-	-	-	-	-	0.234	0.004	-	-	-	0.002	0.240
Petroleum-Absorbent Socks														
MW-11	0.200	0.224	-	0.256	0.200	0.008	0.221	-	-	-	-	-	-	1.109
RS-08	-	-	-	-	0.243	0.040	0.016	0.224	-	-	0.211	0.125	0.144	1.004
RT-2K	-	-	-	-	0.006	0.006	0.209	0.152	0.187	-	0.051	0.021	0.004	0.635
RT-1A	-	-	-	-	0.228	0.036	0.254	0.205	0.233	0.131	0.039	-	0.120	1.245
RT-1B	-	-	-	-	0.251	0.038	0.244	0.235	0.212	-	-	0.009	0.021	1.009
RT-1C	-	-	-	-	0.255	0.039	0.231	0.201	0.069	0.041	-	0.102	-	0.938
Total:	1.145	1.167	1.259	2.174	1.291	0.171	1.263	1.337	0.845	0.259	0.815	0.262	0.450	12.439

Notes:

- = no product recovered

gal = gallons

ID = identification

MW = monitoring well

NA = not applicable

RS = recovery sump

RT = recovery trench

RW = recovery well

Table 3. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
SW-RELEASE	SW-RELEASE	1/20/2015	µg/L	330		490		2,400		2,100		940		140		5.7	J
SW-01	SW01-121114	12/11/2014	µg/L	0.5	U	1	U	1	U	2	U	1	U	1	U	1	U
	SW01-022515	2/25/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW01-030215	3/2/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW01-031115	3/11/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW01-031815	3/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW01-033115	3/31/2015	µg/L	5	U ^c	5	U	17.6		10	U	5	U	5	U	NA	
	SW01-042215	4/22/2015	µg/L	5	U ^c	5	U	14.9		10	U	5	U	5	U	NA	
	SW01-050715	5/7/2015	µg/L	5	U ^c	5	U	7.0		10	U	5	U	5	U	NA	
	SW01-051915	5/19/2015	µg/L	5	U ^c	5	U	8.8		10.6		6.4		5	U	NA	
	SW01-060315	6/3/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW01-061815	6/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW01-071515	7/15/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW01-081315	8/13/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW01-092415	9/24/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW01-102215	10/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW01-112415	11/24/2015	µg/L	7.8		1.5		13.0		9.3		4.6		1	U	NA	
	SW01-122215	12/22/2015	µg/L	4.6		1	U	8.8		5.5		3.1		1	U	NA	
	SW01-012516	1/25/2016	µg/L	17.6		2.3		36.0		11.3		6.3		1	U	NA	
	SW01-021816	2/18/2016	µg/L	23.4		3.0		55.6		15.0		9.1		1	U	NA	
	SW01-031616	3/16/2016	µg/L	20.1		2.4		42.3		13.3		7.6		1	U	NA	
	SW01-042716	4/27/2016	µg/L	20.8		1	U	30.6		2.9		2.0		1	U	NA	
	SW01-050916	5/9/2016	µg/L	16.5		1.4		16.3		7.0		4.8		1	U	NA	
	SW01-062716	6/27/2016	µg/L	9		1	U	3.3		2	U	1	U	1	U	NA	
	SW01-072816	7/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW01-081916	8/19/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW01-092916	9/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW01-103116	10/31/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
SW01-112816	11/28/2016	µg/L	5.0		1	U	10.4		4.9		8.3		1	U	NA		
SW01-122916	12/29/2016	µg/L	12.6		1	U	22.1		11.2		13.5		1	U	NA		
SW01-012017	1/20/2017	µg/L	1.0		1	U	2.3		2	U	3.5		1	U	NA		
SW01-022817	2/28/2017	µg/L	18.5		1.93		37.0		13.8		10.2		5	U	NA		
SW01-031517	3/15/2017	µg/L	3.02		1	U	5.13		2.16		1.74		5	U	NA		
SW01-032117	3/21/2017	µg/L	1	U	1	U	1.57		2	U	1	U	5	U	NA		

Table 3. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
SW-01	SW01-033017	3/30/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW01-040517	4/5/2017	µg/L	1	U	1	U	2.25		2	U	1	U	5	U	NA	
	SW01-050417	5/4/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW01-061317	6/13/2017	µg/L	1	U	1	U	1.90		2	U	1	U	5	U	NA	
	SW01-071817	7/18/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW01-080217	8/2/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW01-090517	9/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW01-120517	12/5/2017	µg/L	1.5		1	U	1.15		2	U	2.14		5	U	NA	
	SW01-121417	12/14/2017	µg/L	4.52		1	U	4.52		3.48		3.2		5	U	NA	
	SW01-010918	1/9/2018	µg/L	1	U	1	U	1	U	2	U	1.15		5	U	NA	
	SW01-020618	2/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW01-030918	3/9/2018	µg/L	1.15		1	U	1	U	2	U	1	U	5	U	1	U
	SW01-040618	4/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1.1	
	SW01-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW01-060718	6/7/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1.43	
SW01-071218	7/12/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1.09		
SW01-091418	9/14/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1.51		
SW01-120418	12/4/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW-02	SW02-121114	12/11/2014	µg/L	0.5	U	1	U	1	U	2	U	1	U	1	U	1	U
	SW02-022515	2/25/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW02-030215	3/2/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW02-031115	3/11/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW02-031815	3/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW02-033115	3/31/2015	µg/L	5	U ^c	5	U	6.0		10	U	5	U	5	U	NA	
	SW02-042215	4/22/2015	µg/L	5	U ^c	5	U	13.0		10	U	5	U	5	U	NA	
	SW02-050715	5/7/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW02-051915	5/19/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW02-060315	6/3/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW02-061815	6/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW02-071515	7/15/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW02-081315	8/13/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW02-092415	9/24/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW02-102215	10/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
SW02-112415	11/24/2015	µg/L	6		1.3		10.0		7.8		4.0		1	U	NA		

Table 3. Analytical Results for Surface Water
 Plantation Pipe Line Company
 Lewis Drive Remediation Site, Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
			Screening Value (µg/L):	2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
SW-02	SW02-122215	12/22/2015	µg/L	4.1		1	U	7.6		5.1		3.1		1	U	NA	
	SW02-012516	1/25/2016	µg/L	12		1.5		25.0		8.4		4.6		1	U	NA	
	SW02-021816	2/18/2016	µg/L	15.5		1.8		35.3		10.1		5.9		1	U	NA	
	SW02-031616	3/16/2016	µg/L	8		1.0		17.5		5.8		3.9		1	U	NA	
	SW02-042716	4/27/2016	µg/L	5.6		1	U	7.1		2	U	1	U	1	U	NA	
	SW02-050916	5/9/2016	µg/L	7.1		1	U	4.5		2.2		1.6		1	U	NA	
	SW02-062716	6/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW02-072816	7/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW02-081916	8/19/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW02-092916	9/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW02-103116	10/31/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW02-112816	11/28/2016	µg/L	5.4		1	U	1.6		2.6		4.8		1	U	NA	
	SW02-122916	12/29/2016	µg/L	1	U	1	U	1	U	2	U	1.4		1	U	NA	
	SW02-012017	1/20/2017	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW02-022817	2/28/2017	µg/L	10.7		1	U	11.0		4.14		4.23		5	U	NA	
	SW02-031517	3/15/2017	µg/L	11.4		1	U	8.6		4.45		3.6		5	U	NA	
	SW02-032117	3/21/2017	µg/L	8.42		1	U	2.45		2.48		2.68		5	U	NA	
	SW02-033017	3/30/2017	µg/L	2.18		1	U	1	U	2	U	1	U	5	U	NA	
	SW02-040517	4/5/2017	µg/L	2.87		1	U	1.12		2	U	1.14		5	U	NA	
	SW02-050417	5/4/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW02-061317	6/13/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW02-071817	7/18/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW02-080217	8/2/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW02-090517	9/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW02-120517	12/5/2017	µg/L	26.6		1.8		8.39		10.2		7.17		5	U	NA	
	SW02-121417	12/14/2017	µg/L	21.1		1.53		9.4		9.74		7.32		5	U	NA	
	SW02-010918	1/9/2018	µg/L	25.0		1.56		12.4		11		8.24		5	U	NA	
	SW02-020618	2/6/2018	µg/L	6.69		1	U	2.65		2.75		1.87		5	U	1	U
	SW02-030918	3/9/2018	µg/L	3.19		1	U	1.39		2	U	1.11		5	U	1	U
	SW02-040618	4/6/2018	µg/L	2.23		1	U	1	U	2	U	1	U	5	U	2.13	
	SW02-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	2.25	
	SW02-060718	6/7/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1.92	
	SW02-071218	7/12/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1.15	
	SW02-091418	9/14/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	2.94	
	SW02-120418	12/4/2018	µg/L	11.9		1	U	1.32		4.40		3.75		5	U	2.23	

Table 3. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte														
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE		
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b	
SW-03	SW-Upgradient	1/20/2015	µg/L	0.5	U	1	U	0.23 J		2	U	1	U	1	U	1	U	
	SW03-022515	2/25/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW03-030215	3/2/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW03-031115	3/11/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW03-031815	3/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW03-033115	3/31/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW03-042215	4/22/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW03-050715	5/7/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW03-051915	5/19/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW03-060315	6/3/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW03-061815	6/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW03-071515	7/15/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW03-081315	8/13/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	--	9/24/2015	--	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	SW03-102215	10/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW03-112415	11/24/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW03-122215	12/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW03-012516	1/25/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW03-021816	2/18/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW03-031616	3/16/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW03-042716	4/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW03-050916	5/9/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW03-062716	6/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW03-072816	7/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	--	8/19/2016	--	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	SW03-092916	9/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW03-103116	10/31/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW03-112816	11/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW03-122916	12/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW03-012017	1/20/2017	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW03-022817	2/28/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	SW03-031517	3/15/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
SW03-032117	3/21/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA			

Table 3. Analytical Results for Surface Water
 Plantation Pipe Line Company
 Lewis Drive Remediation Site, Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte														
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE		
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b	
SW-03	SW03-033017	3/30/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	SW03-040517	4/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	SW03-050417	5/4/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	SW03-061317	6/13/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	SW03-071817	7/18/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	SW03-080217	8/2/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	SW03-090517	9/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	SW03-120517	12/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	SW03-121417	12/14/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	--	1/9/2018	--		NS-HS		NS-HS		NS-HS		NS-HS		NS-HS		NS-HS		NS-HS	
	SW03-020618	2/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
	SW03-030918	3/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
	SW03-040618	4/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
	SW03-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
	SW03-060718	6/7/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
	SW03-071218	7/12/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW03-091418	9/14/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U		
SW03-120418	12/4/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U		
SW-04	SW-Downgradient	1/20/2015	µg/L	95		27		310		110		63		94		2.7		
	SW04-022515	2/25/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW04-030215	3/2/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW04-031115	3/11/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW04-031815	3/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW04-033115	3/31/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW04-042215	4/22/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW04-050715	5/7/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW04-051915	5/19/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW04-060315	6/3/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW04-061815	6/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW04-071515	7/15/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW04-081315	8/13/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW04-092415	9/24/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
SW04-102215	10/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA			
SW04-112415	11/24/2015	µg/L	1.7		1	U	2.7		2.9		1.6		1	U	NA			

Table 3. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
			Screening Value (µg/L):	2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
SW-04	SW04-122215	12/22/2015	µg/L	3.3		1	U	7.3		5.2		2.7		1	U	NA	
	SW04-012516	1/25/2016	µg/L	6.9		1	U	14.0		4.9		2.8		1	U	NA	
	SW04-021816	2/18/2016	µg/L	10.9		1.1		25.4		7.0		4.3		1	U	NA	
	SW04-031616	3/16/2016	µg/L	1	U	1	U	2.0		2	U	1.8		1	U	NA	
	SW04-042716	4/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW04-050916	5/9/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW04-062716	6/27/2016	µg/L	1	U	1	U	1.1		2	U	1	U	1	U	NA	
	SW04-072816	7/28/2016	µg/L	1	U	1	U	23.5		2	U	1	U	1	U	NA	
	SW04-081916	8/19/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW04-092916	9/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW04-103116	10/31/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW04-112816	11/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW04-122916	12/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW04-012017	1/20/2017	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW04-022817	2/28/2017	µg/L	1	U	1	U	1.13		2	U	1	U	5	U	NA	
	SW04-031517	3/15/2017	µg/L	1	U	1	U	2.90		2	U	1	U	5	U	NA	
	SW04-032117	3/21/2017	µg/L	1	U	1	U	3.28		2	U	1	U	5	U	NA	
	SW04-033017	3/30/2017	µg/L	1	U	1	U	6.15		2	U	1	U	5	U	NA	
	SW04-040517	4/5/2017	µg/L	1	U	1	U	9.47		2	U	1	U	5	U	NA	
	SW04-050417	5/4/2017	µg/L	1	U	1	U	13.8		2	U	1	U	5	U	NA	
	SW04-061317	6/13/2017	µg/L	1	U	1	U	1.37		2	U	1	U	5	U	NA	
	SW04-071817	7/18/2017	µg/L	1	U	1	U	1.92		2	U	1	U	5	U	NA	
	SW04-080217	8/2/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW04-090517	9/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW04-120517	12/5/2017	µg/L	1	U	1	U	5.53		2	U	1	U	5	U	NA	
	SW04-121417	12/14/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW04-010918	1/9/2018	µg/L	1	U	1	U	4.09		2	U	1	U	5	U	NA	
	SW04-020618	2/6/2018	µg/L	3.04		1	U	1.73		2	U	1.12		5	U	1	U
	SW04-030918	3/9/2018	µg/L	1	U	1	U	1.37		2	U	1	U	5	U	1	U
	SW04-040618	4/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW04-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1.2	
	SW04-060718	6/7/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1.31	
	SW04-071218	7/12/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW04-091418	9/14/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1.13	
	SW04-120418	12/4/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U

Table 3. Analytical Results for Surface Water
 Plantation Pipe Line Company
 Lewis Drive Remediation Site, Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte														
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE		
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b	
SW-05	SW05-022515	2/25/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW05-030215	3/2/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW05-031115	3/11/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW05-031815	3/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW05-033115	3/31/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW05-042215	4/22/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW05-050715	5/7/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	--	5/19/2015	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	6/3/2015	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	6/18/2015	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	7/15/2015	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	8/13/2015	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	9/24/2015	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	10/22/2015	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
		SW05-112415	11/24/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
		SW05-122215	12/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
		SW05-012516	1/25/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
		SW05-021816	2/18/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
		SW05-031616	3/16/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	--	4/27/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	5/9/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	6/27/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	7/28/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	8/19/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	9/29/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	10/31/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	11/28/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	12/29/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	1/20/2017	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	2/28/2017	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
--	3/15/2017	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		
--	3/21/2017	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		
--	3/30/2017	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		
--	4/5/2017	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		
--	5/4/2017	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		

Table 3. Analytical Results for Surface Water
 Plantation Pipe Line Company
 Lewis Drive Remediation Site, Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
SW-05	--	6/13/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	7/18/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	8/2/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	9/5/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	12/5/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	12/14/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	1/9/2018	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	SW05-020618	2/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW05-030918	3/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	--	4/6/2018	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	SW05-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	--	6/7/2018	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	7/12/2018	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	9/14/2018	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
SW05-120418	12/4/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW-06	SW06-022515	2/25/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW06-030215	3/2/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW06-031115	3/11/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW06-031815	3/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	--	3/31/2015	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	SW06-042215	4/22/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	--	5/7/2015	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	5/19/2015	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	6/3/2015	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	6/18/2015	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	7/15/2015	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	8/13/2015	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	9/24/2015	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	10/22/2015	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	11/24/2015	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	SW06-122215	12/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
SW06-012516	1/25/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		

Table 3. Analytical Results for Surface Water
 Plantation Pipe Line Company
 Lewis Drive Remediation Site, Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
SW-06	SW06-021816	2/18/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	--	3/16/2016	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	4/27/2016	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	5/9/2016	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	6/27/2016	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	7/28/2016	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	8/19/2016	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	9/29/2016	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	10/31/2016	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	11/28/2016	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	12/29/2016	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	1/20/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	2/28/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	3/15/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	3/21/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	3/30/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	4/5/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	5/4/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	6/13/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	7/18/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	8/2/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	9/5/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	12/5/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	12/14/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	1/9/2018	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	2/6/2018	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	3/9/2018	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	4/6/2018	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	5/3/2018	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	6/7/2018	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	7/12/2018	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	9/14/2018	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	

Table 3. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte														
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE		
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b	
SW-07	SW07-022515	2/25/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW07-030215	3/2/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW07-031115	3/11/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW07-031815	3/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW07-033115	3/31/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW07-042215	4/22/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW07-050715	5/7/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW07-051915	5/19/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW07-060315	6/3/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW07-061815	6/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	SW07-071515	7/15/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA		
	--	8/13/2015	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	9/24/2015	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	SW07-102215	10/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW07-112415	11/24/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW07-122215	12/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW07-012516	1/25/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW07-021816	2/18/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW07-031616	3/16/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW07-042716	4/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	SW07-050916	5/9/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	--	6/27/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	7/28/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	8/19/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	9/29/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	10/31/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	11/28/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	12/29/2016	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	1/20/2017	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	2/28/2017	--		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
SW07-031517	3/15/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA			
SW07-032117	3/21/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA			
SW07-033017	3/30/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA			
SW07-040517	4/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA			
SW07-050417	5/4/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA			

Table 3. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
SW-07	SW07-061317	6/13/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW07-071817	7/18/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	--	8/2/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	--	9/5/2017	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
	SW07-120517	12/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW07-121417	12/14/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW07-010918	1/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW07-020618	2/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW07-030918	3/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW07-040618	4/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW07-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW07-060718	6/7/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW07-071218	7/12/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	--	9/14/2018	--	NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW		NS-IW	
SW07-120418	12/4/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW-08	SW08-022515	2/25/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW08-030215	3/2/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW08-031115	3/11/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW08-031815	3/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW08-033115	3/31/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW08-042215	4/22/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW08-050715	5/7/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW08-051915	5/19/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW08-060315	6/3/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW08-061815	6/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW08-071515	7/15/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW08-081315	8/13/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW08-092415	9/24/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW08-102215	10/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW08-112415	11/24/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW08-122215	12/22/2015	µg/L	1.6		1	U	3.8		2.5		1.6		1	U	NA	
	SW08-012516	1/25/2016	µg/L	2.4		1	U	5.6		2		1.3		1	U	NA	
	SW08-021816	2/18/2016	µg/L	2.9		1	U	7.6		2.3		1.5		1	U	NA	
SW08-031616	3/16/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
SW08-042716	4/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		

Table 3. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
SW-08	SW08-050916	5/9/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW08-062716	6/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW08-072816	7/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW08-081916	8/19/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW08-092916	9/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW08-103116	10/31/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW08-112816	11/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW08-122916	12/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW08-012017	1/20/2017	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW08-022817	2/28/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW08-031517	3/15/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW08-032117	3/21/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW08-033017	3/30/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW08-040517	4/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW08-050417	5/4/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW08-061317	6/13/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW08-071817	7/18/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW08-080217	8/2/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW08-090517	9/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW08-120517	12/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW08-121417	12/14/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW08-010918	1/9/2018	µg/L	1.16		1	U	1	U	2	U	1.87		5	U	NA	
	SW08-020618	2/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW08-030918	3/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW08-040618	4/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW08-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW08-060718	6/7/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW08-071218	7/12/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW08-091418	9/14/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW08-120418	12/4/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW09-022515	2/25/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW09-030215	3/2/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW09-031115	3/11/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW09-031815	3/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	

Table 3. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
SW-09	SW09-033115	3/31/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW09-042215	4/22/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW09-050715	5/7/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW09-051915	5/19/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW09-060315	6/3/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW09-061815	6/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW09-071515	7/15/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW09-081315	8/13/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW09-092415	9/24/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW09-102215	10/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW09-112415	11/24/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW09-122215	12/22/2015	µg/L	2.1		1	U	4.8		3.3		2.1		1	U	NA	
	SW09-012516	1/25/2016	µg/L	3.3		1	U	7.1		2.4		1.5		1	U	NA	
	SW09-021816	2/18/2016	µg/L	2.2		1	U	5.9		2	U	1.2		1	U	NA	
	SW09-031616	3/16/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW09-042716	4/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW09-050916	5/9/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW09-062716	6/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW09-072816	7/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW09-081916	8/19/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW09-092916	9/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW09-103116	10/31/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW09-112816	11/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW09-122916	12/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW09-012017	1/20/2017	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW09-022817	2/28/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW09-031517	3/15/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW09-032117	3/21/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW09-033017	3/30/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW09-040517	4/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW09-050417	5/4/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW09-061317	6/13/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW09-071817	7/18/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW09-080217	8/2/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	

Table 3. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
SW-09	SW09-090517	9/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW09-120517	12/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW09-121417	12/14/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW09-010918	1/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW09-020618	2/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW09-030918	3/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW09-040618	4/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW09-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW09-060718	6/7/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW09-071218	7/12/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
SW09-091418	9/14/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW09-120418	12/4/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW-10	SW10-022515	2/25/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW10-030215	3/2/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW10-031115	3/11/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW10-031815	3/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW10-033115	3/31/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW10-042215	4/22/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW10-050715	5/7/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW10-051915	5/19/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW10-060315	6/3/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW10-061815	6/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW10-071515	7/15/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW10-081315	8/13/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW10-092415	9/24/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW10-102215	10/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW10-112415	11/24/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW10-122215	12/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW10-012516	1/25/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW10-021816	2/18/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW10-031616	3/16/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW10-042716	4/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
SW10-050916	5/9/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
SW10-062716	6/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		

Table 3. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
SW-10	SW10-072816	7/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW10-081916	8/19/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW10-092916	9/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW10-103116	10/31/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW10-112816	11/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW10-122916	12/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW10-012017	1/20/2017	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW10-022817	2/28/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW10-031517	3/15/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW-10-032117	3/21/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW-10-033017	3/30/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW-10-040517	4/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW10-050417	5/4/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW10-061317	6/13/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW10-071817	7/18/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW10-080217	8/2/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW10-090517	9/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW10-120517	12/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW10-121417	12/14/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW10-010918	1/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
SW10-020618	2/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW10-030918	3/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW10-040618	4/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW10-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW10-060718	6/7/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW10-071218	7/12/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW10-091418	9/14/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW10-120418	12/4/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW-11	SW11-022515	2/25/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW11-030215	3/2/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW11-031115	3/11/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW11-031815	3/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW11-033115	3/31/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW11-042215	4/22/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	

Table 3. Analytical Results for Surface Water
Plantation Pipe Line Company
Lewis Drive Remediation Site, Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
SW-11	SW11-050715	5/7/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW11-051915	5/19/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW11-060315	6/3/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW11-061815	6/18/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW11-071515	7/15/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW11-081315	8/13/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW11-092415	9/24/2015	µg/L	5	U ^c	5	U	5	U	10	U	5	U	5	U	NA	
	SW11-102215	10/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-112415	11/24/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-122215	12/22/2015	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-012516	1/25/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-021816	2/18/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-031616	3/16/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-042716	4/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-050916	5/9/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-062716	6/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-072816	7/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-081916	8/19/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-092916	9/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-103116	10/31/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-112816	11/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-122916	12/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-012017	1/20/2017	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW11-022817	2/28/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW11-031517	3/15/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW-11-032117	3/21/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW-11-033017	3/30/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW-11-040517	4/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW11-050417	5/4/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW11-061317	6/13/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW11-071817	7/18/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW11-080217	8/2/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW11-090517	9/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW11-120517	12/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	

Table 3. Analytical Results for Surface Water
 Plantation Pipe Line Company
 Lewis Drive Remediation Site, Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
SW-11	SW11-121417	12/14/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW11-010918	1/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW11-020618	2/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW11-030918	3/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW11-040618	4/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW11-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW11-060718	6/7/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW11-071218	7/12/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW11-091418	9/14/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
SW11-120418	12/4/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW-12	SW12-081916	8/19/2016	µg/L	6,430		764		15,400		3,360		1,730		128		NA	
	SW12-092916	9/29/2016	µg/L	7,850		1,030		19,000		3,910		1,940		143		NA	
	SW12-103116	10/31/2016	µg/L	165		17.7		302		103		58.2		4.7		NA	
	SW12-112816	11/28/2016	µg/L	486		59.6		976		351		181		14.2		NA	
	SW12-122916	12/29/2016	µg/L	707		97.3		1,790		408		213		16.8		NA	
	SW12-012017	1/20/2017	µg/L	212		19.8		396		104		58		3.8		NA	
	SW12-022817	2/28/2017	µg/L	26.1		4.04		62.3		18.0		9.73		5	U	NA	
	SW12-031517	3/15/2017	µg/L	125		15.3		185		67.9		35.5		5	U	NA	
	SW12-032117	3/21/2017	µg/L	134		12.1		45.0		60.8		33.6		5	U	NA	
	SW12-033017	3/30/2017	µg/L	48.5		5.69		86.3		27.7		15.8		5	U	NA	
	SW12-040517	4/5/2017	µg/L	67.1		9.24		127.0		43.6		23.7		5	U	NA	
	SW12-050417	5/4/2017	µg/L	52.8		7.96		91.7		42		23.2		5	U	NA	
	SW12-061317	6/13/2017	µg/L	102		16.6		166		85.1		46.2		5	U	NA	
	SW12-071817	7/18/2017	µg/L	65		5.8		116		43.3		24.8		5	U	NA	
	SW12-080217	8/2/2017	µg/L	125		14.7		204		102		67		5	U	NA	
	SW12-090517	9/5/2017	µg/L	46.7		4.72		72		39		26.2		5	U	NA	
	SW12-120517	12/5/2017	µg/L	16.6		2.91		12.6		20.1		13.3		5	U	NA	
	SW12-121417	12/14/2017	µg/L	9.19		2.66		8.26		18		12.1		5	U	NA	
	SW12-010918	1/9/2018	µg/L	12.3		2.16		5.65		14.6		11.1		5	U	NA	
	SW12-020618	2/6/2018	µg/L	2.53		1	U	1.20		4.04		2.44		5	U	1	U
	SW12-030918	3/9/2018	µg/L	3.24		1.79		12.2		9.75		4.28		5	U	1	U
	SW12-040618	4/6/2018	µg/L	1.88		1	U	1	U	5.05		2.82		5	U	1	U
	SW12-050318	5/3/2018	µg/L	1	U	1	U	1	U	4.18		2.72		5	U	1	U
	SW12-060718	6/7/2018	µg/L	1.85		1	U	1	U	3.24		1.64		5	U	1	U

Table 3. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
SW-12	SW12-071218	7/12/2018	µg/L	1.79		1	U	1	U	3.81		2.15		5	U	1	U
	SW12-091418	9/14/2018	µg/L	1.34		1	U	1	U	3.20		2.00		5	U	1	U
	SW12-120418	12/4/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
SW-13	SW13-081916	8/19/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW13-092916	9/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW13-103116	10/31/2016	µg/L	1	U	1	U	2.0		2	U	1	U	1	U	NA	
	SW13-112816	11/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW13-122916	12/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW13-012017	1/20/2017	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	SW13-022817	2/28/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW13-031517	3/15/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW13-032117	3/21/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW13-033017	3/30/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW13-040517	4/5/2017	µg/L	1	U	1	U	1.21		2	U	1	U	5	U	NA	
	SW13-050417	5/4/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW13-061317	6/13/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW13-071817	7/18/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW13-080217	8/2/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW13-090517	9/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW13-120517	12/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW13-121417	12/14/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW13-010918	1/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW13-020618	2/6/2018	µg/L	1.78		1	U	1	U	2	U	1	U	5	U	4.26	
	SW13-030918	3/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	2.07	
	SW13-040618	4/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1.4	
	SW13-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	3.67	
	SW13-060718	6/7/2018	µg/L	2.99		1	U	2.48		2	U	1	U	5	U	8.08	
	SW13-071218	7/12/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW13-081318	8/13/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	SW13-091418	9/14/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
SW13-120418	12/4/2018	µg/L	1	U	1	U	1.84		2	U	1	U	5	U	3.49		
SW-14	SW14-071817	7/18/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW14-080217	8/2/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	SW14-090517	9/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	

Table 3. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte														
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE		
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b	
SW-14	SW14-120517	12/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	--	12/14/2017	--	NS-DW		NS-DW		NS-DW		NS-DW		NS-DW		NS-DW		NS-DW		
	SW14-010918	1/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	SW14-020618	2/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
	SW14-030918	3/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
	SW14-040618	4/6/2018	µg/L	1	U	1	U	1.43		2	U	1	U	5	U	1	U	
	SW14-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
	SW14-060718	6/7/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1.18		
	SW14-071218	7/12/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1.33		
	SW14-091418	9/14/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
SW14-120418	12/4/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1.62			
FP-01	FP01-031616	3/16/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP01-042716	4/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP01-050916	5/9/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP01-062716	6/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP01-072816	7/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP01-081916	8/19/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP01-092916	9/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP01-103116	10/31/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP01-112816	11/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP01-122916	12/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP01-012017	1/20/2017	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP01-022817	2/28/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP01-031517	3/15/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-01-032117	3/21/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-01-033017	3/30/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-01-040517	4/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-01-050417	5/4/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-01-061317	6/13/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-01-071817	7/18/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-01-080217	8/2/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
FP-01-090517	9/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA			
FP-01-120517	12/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA			
FP-01-121417	12/14/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA			

Table 3. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
FP-01	FP01-010918	1/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	FP01-020618	2/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	FP01-030918	3/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	FP01-040618	4/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	FP01-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	FP01-060718	6/7/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	FP01-071218	7/12/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
FP01-091418	9/14/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
FP-02	FP02-031616	3/16/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	FP02-042716	4/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	FP02-050916	5/9/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	FP02-062716	6/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	FP02-072816	7/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	FP02-081916	8/19/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	FP02-092916	9/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	FP02-103116	10/31/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	FP02-112816	11/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	FP02-122916	12/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	FP02-012017	1/20/2017	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA	
	FP02-022817	2/28/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	FP02-031517	3/15/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	FP-02-032117	3/21/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	FP-02-033017	3/30/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	FP-02-040517	4/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	FP-02-050417	5/4/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	FP-02-061317	6/13/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	FP-02-071817	7/18/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	FP-02-080217	8/2/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	FP-02-090517	9/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	FP-02-120517	12/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	FP-02-121417	12/14/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	FP02-010918	1/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA	
	FP02-020618	2/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	FP02-030918	3/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U

Table 3. Analytical Results for Surface Water
 Plantation Pipe Line Company
 Lewis Drive Remediation Site, Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte														
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE		
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b	
FP-02	FP02-040618	4/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
	FP02-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
	FP02-060718	6/7/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
	FP02-071218	7/12/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
	FP02-091418	9/14/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
FP-03	FP03-031616	3/16/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP03-042716	4/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP03-050916	5/9/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP03-062716	6/27/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP03-072816	7/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	--	8/19/2016	--		NS-HS		NS-HS		NS-HS		NS-HS		NS-HS		NS-HS		NS-HS	
	FP03-092916	9/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP03-103116	10/31/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP03-112816	11/28/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP03-122916	12/29/2016	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP03-012017	1/20/2017	µg/L	1	U	1	U	1	U	2	U	1	U	1	U	NA		
	FP03-022817	2/28/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP03-031517	3/15/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-03-032117	3/21/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-03-033017	3/30/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	--	4/5/2017	--		NS-HS		NS-HS		NS-HS		NS-HS		NS-HS		NS-HS		NS-HS	
	FP-03-050417	5/4/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-03-061317	6/13/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-03-071817	7/18/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-03-080217	8/2/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-03-090517	9/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-03-120517	12/5/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP-03-121417	12/14/2017	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP03-010918	1/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	NA		
	FP03-020618	2/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
	FP03-030918	3/9/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
	FP03-040618	4/6/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U	
FP03-050318	5/3/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U		
FP03-060718	6/7/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U		

Table 3. Analytical Results for Surface Water

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Units	Analyte													
				Benzene		Ethylbenzene		Toluene		m&p-Xylene		o-Xylene		Naphthalene		MTBE	
Screening Value (µg/L):				2.2	^a	530	^a	1,000	^a	NA	^b	NA	^b	NA	^b	NA	^b
FP-03	FP03-071218	7/12/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U
	FP03-091418	9/14/2018	µg/L	1	U	1	U	1	U	2	U	1	U	5	U	1	U

Notes:

^a South Carolina Department of Health and Environmental Control (SCDHEC) R.61 -68, Water Classifications and Standards, Human Health for consumption of water and organism, June 27, 2014.

^b Screening levels for these analytes are not specified in SCDHEC R. 61-68.

^c The analyte was analyzed for, but was not detected above the laboratory reporting/quantitation limit. However, the laboratory reporting/quantitation limit is above the screening criteria.

The actual absence or presence of this analyte between the screening criteria and the laboratory reporting/quantitation limit cannot be determined.

Samples analyzed by EPA Method SW 8260B

Bold indicates the analyte was detected above the method detection limit.

Gray shading indicates the analyte exceeded its screening value.

µg/L = microgram(s) per liter

FP = fishing pond

ID = identification

J = estimated

MTBE = methyl tertiary butyl ether

NA = not applicable

NS-DW = sample not collected due to location being in a different watershed

NS-HS = sample not collected due to health and safety concerns

NS-IW = sample not collected due to insufficient volume of water in well

SW = surface water

U = analyte was not detected above the reported sample quantitation limit

