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December 21, 2017

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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, SC 29201

Subject: **Lewis Drive – November 2017 Monthly Status Update**
Plantation Pipe Line Company
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) is submitting the attached Monthly Status Update covering activities conducted in November 2017 at the Lewis Drive site. If you have any questions or concerns, please call me at 919-760-1777, Mr. Scott Powell/CH2M at 678-530-4457, or Mr. Jerry Aycock/Plantation at 770-751-4165.

Regards,
CH2M HILL Engineers, Inc.

William M. Waldron, P.E.
Program Manager

Attachments:

- Monthly Status Update including:
  - Figure 1 – Groundwater and Surface Water Elevation Map
  - Figure 2 – Product Thickness Map
  - Table 1 – Field Observations
  - Table 2 – Stream Gauge Construction Information
  - Table 3 – Well Construction Information
  - Table 4 – Groundwater Elevation and Product Thickness Data
  - Table 5 – Analytical Results for Groundwater
  - Groundwater Analytical Laboratory Reports
  - Soil Boring Logs and Well Construction Diagrams

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File

Monthly Status Update
Plantation Pipe Line Company
Lewis Drive Remediation
Site ID #18693 "Kinder Morgan Belton Pipeline Release"
November 2017

Surface Water

- Routinely inspected Brown's Creek and the wetland area south of West Calhoun Road adjacent to Cupboard Creek for hydrocarbon sheen, odor, or distressed vegetation. No new signs of distressed vegetation, hydrocarbon sheen, or odor were noted at Brown's Creek or the wetland area south of West Calhoun Road adjacent to Cupboard Creek. The route of inspection is indicated on Figure 1. A summary of the field observations is provided in Table 1.
- Stream elevations from staff gauges are tabulated in Table 2 and are shown along with groundwater elevations on Figure 1.
- During this reporting period, surface water samples were not collected in accordance with the Corrective Action Plan Addendum Revision 2. The next surface water sampling event will be performed in December.

Product Recovery

- Gauged depth to product and depth to water in recovery sumps/trenches/wells, piezometers, monitoring wells, and stream gauges on a routine basis. A site-wide gauging event was performed on November 12 and 17, 2017. Three locations displayed measurable product thicknesses of 0.5 foot or greater. The greatest product thickness measured from a recovery feature (recovery sumps, trenches, and wells) was 0.99 feet, at RW-05. The greatest product thickness measured from a non-recovery feature (piezometers, monitoring wells, and stream gauges) was 0.82 feet, at TW-42. All locations showing greater than 0.5 feet of product are away from surface water bodies at the site and have limited influence from the air sparging remediation system. Construction information for recovery features, piezometers, and monitoring wells is presented in Table 3. Groundwater elevation and product thickness data for November 2017 are presented in Table 4. Groundwater elevation and product thicknesses for November 2017 are presented on Figures 1 and 2, respectively.
- Less product was recovered in November 2017 than could be measured accurately by gauging the 1,500-gallon holding tanks. See Table 4 for the specific dates and times certain wells and sumps were used for product recovery.
- Through the end of November 2017, approximately 222,974 gallons (5,309 barrels) of product have been collected.

Groundwater

- Operated and recorded data from six continuous water level data loggers (In Situ Rugged Troll 100) in MW-02, MW-12, MW-15, MW-20, MW-25, and MW-40, and two barometric pressure loggers in MW-01 and MW-10 during the month.
- Collected monthly groundwater samples in accordance with the Corrective Action Plan and Addendum. The analytical lab report is attached and results are summarized in Table 5.
    - During this reporting period, groundwater samples were collected on November 8, 2017, from 17 monitoring wells. Samples were analyzed for benzene, ethylbenzene, toluene, xylenes, 1,2-dichloroethane, methyl tert-butyl ether (MTBE), and naphthalene.
    - The following constituents were detected above their respective groundwater standards:
        - Benzene – in eight monitoring wells ranging from 82.9 to 13,500 µg/L
        - Toluene – in two monitoring wells ranging from 1,370 to 23,000 µg/L
        - MTBE – in four monitoring wells ranging from 118 to 442 µg/L
    - Apart from these locations, no dissolved hydrocarbons were detected above their respective groundwater standards in the remaining groundwater samples.
- The soil boring logs, well construction diagrams, and 1903 well installation forms are attached for MW-46, MW-47, and MW-49 that were installed in September 2017 and MW-06B, MW-09B, MW-43, MW-43B, MW-48B, and MW-50B that were installed in October 2017. A new soil boring logs, well construction diagrams, and 1903 well installation forms are attached to show the rehabilitation work done on MW-02B in October 2017.

Remedial System Operation

- Continued biosparging via vertical well curtains in the Brown's Creek Protection Zone and Cupboard Creek Protection Zone, and biosparging via horizontal wells in the Hayfield Zone.
- In accordance with the *Sparging Operating Limits* letter sent to SCDHEC dated July 26, 2017, and approved September 12, 2017, the flows in the vertical sparging wells and stream aerators were incrementally increased to approximately 10 standard cubic feet per minute (scfm) each during this period. Likewise, the flows in the 3 horizontal wells in the Hayfield Zone were incrementally increased to approximately 0.43 scfm per foot of screen during this period.
- Increased the flows in the two stream aerators in Brown's Creek to a rate of 10 scfm each.

Regulatory Interaction

- Submitted *Private Well Sampling Results letter to Mr. Chandler* to Mr. Chandler (and copied SCDHEC) on November 8, 2017.
- Submitted *Monthly Status Update for October 2017* to SCDHEC on November 28, 2017.
- Conducted internal stormwater pollution prevention plan (SWPPP) inspections on November 2, 8, 15, 21, and 28, 2017.
- The Anderson County Stormwater Department performed a SWPPP inspection on November 28, 2017. No findings were noted.

Future Activities

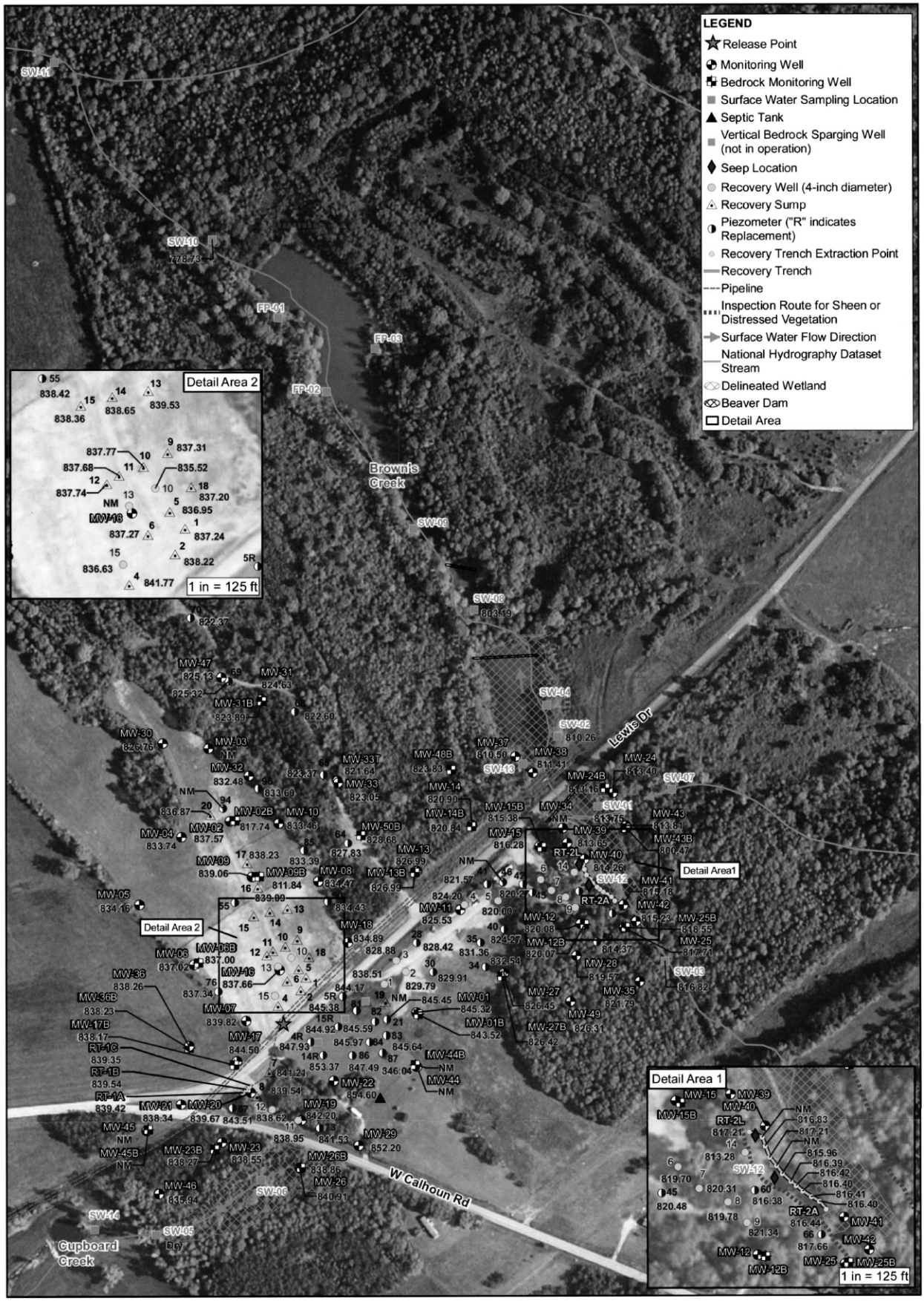
- In accordance with the *Sparging Operating Limits* letter to SCDHEC dated July 26, 2017:
    - Increase flow in the stream aerators to up to a maximum of 15 scfm each.
    - Increase flow in the vertical sparging wells up to a maximum of 15 scfm each.
    - Increase flow in the horizontal sparging wells up to a maximum of 0.75 scfm per foot of screen.
- Conduct monitoring and reporting monthly.
- Gauge select recovery sumps, trenches, and wells once weekly located near Brown's Creek and Cupboard Creek for depth to groundwater and free product thickness.
- Evacuate product from select product recovery sumps, trenches, and wells once weekly located near Brown's Creek and Cupboard Creek. Collect liquids in two on-site 1,550-gallon poly tanks for eventual off-site disposal.
- Gauge monitoring wells and piezometers monthly for depth to groundwater and free product thickness.
- Continue routine visual inspections of Brown's Creek and Cupboard Creek.
- Conduct quarterly surface water sampling at 17 established locations along Brown's Creek and Cupboard Creek in December 2017.
- Continue coordination with landowners and legal counsel on an as-needed basis.

Cumulative Product Shipped from the Site

Date	Destination	Total Product (gal)
12/9/2014	PPL Greensboro	4,289
12/9/2014	PPL Greensboro	3,100
12/12/2014	PPL Greensboro	1,189
12/30/2014	Crystal Clean (FCC)	5,057
12/31/2014	Crystal Clean (FCC)	5,333
1/4/2015	Crystal Clean (FCC)	5,000
1/4/2015	Crystal Clean (FCC)	2,872
1/5/2015	Crystal Clean (FCC)	5,013
1/6/2015	Crystal Clean (FCC)	4,800
1/7/2015	Allied Energies	6,532
1/7/2015	Allied Energies	6,425
1/7/2015	Allied Energies	8,200
1/9/2015	Allied Energies	6,482
1/9/2015	Allied Energies	7,825
1/12/2015	Allied Energies	6,540
1/12/2015	Allied Energies	6,467
1/13/2015	Allied Energies	6,732
1/13/2015	Allied Energies	6,595
1/15/2015	Allied Energies	6,500
1/22/2015	Allied Energies	5,791
1/23/2015	Allied Energies	5,450
1/27/2015	Allied Energies	5,791
1/27/2015	Allied Energies	5,557
1/27/2015	Allied Energies	6,043
1/28/2015	Allied Energies	4,411
2/5/2015	Allied Energies	5,513
2/11/2015	Allied Energies	5,732
2/11/2015	Allied Energies	5,606
2/25/2015	Allied Energies	5,583
3/4/2015	Allied Energies	4,000
3/16/2015	Allied Energies	5,200
6/3/2015	Allied Energies	6,500
6/3/2015	Allied Energies	4,214
8/10/2015	Allied Energies	6,000
11/2/2015	Allied Energies	5,800
11/13/2015	Crystal Clean (FCC)	2,900
12/1/2015	Allied Energies	6,690
12/1/2015	Allied Energies	6,700
12/7/2015	Crystal Clean (FCC)	500
9/28/2016	Shamrock	495
10/17/2016	Shamrock	110
10/24/2016	Shamrock	85
10/31/2016	Shamrock	70
11/10/2016	Shamrock	168
1/18/2017	A&D Archdale, NC	3,758
3/3/2017	A&D Archdale, NC	460
3/8/2017	A&D Archdale, NC	500
3/15/2017	A&D Archdale, NC	4,189
4/3/2017	A&D Archdale, NC	458
4/19/2017	A&D Archdale, NC	927
4/19/2017	A&D Archdale, NC	747
5/22/2017	A&D Archdale, NC	50
6/7/2017	A&D Archdale, NC	658
6/29/2017	A&D Archdale, NC	695
8/25/2017	A&D Archdale, NC	566
9/8/2017	A&D Archdale, NC	99
11/30/2017	Remaining in poly tanks on site	6
	Total (gallons)	**222,974**
	Total (barrels)	**5,309**

Notes:

1. Gasoline and water are field-segregated using two 1,550-gallon poly tanks prior to off-site disposal.



817.74 Corrected Groundwater Elevation as of 11/12/2017 and 11/17/2017 in feet above mean sea level

NM Not measured

Base Map Sources:
*USDA, Farm Service Agency (FSA), National Agriculture Imagery Program (NAIP), Published 8/19/ 2015
*United States Geological Survey (USGS) National Hydrography Dataset (NHD)

N

0 250 500

Scale in Feet

Figure 1. Groundwater and Surface Water Elevation Map
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

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Figure 2. Product Thickness Map
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"

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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.)
11/3/2017	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.
11/10/2017	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.
11/12&17/2017	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.
11/22/2017	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.

Notes:

ID = identification

Table 2. Stream Gauge Construction Information

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Installation Method	Date Installed	Stream Bottom Elevation (ft amsl)	Elevation of Zero Mark (ft amsl)
SW-01	By hand	3/29/2016	812.39	812.82
SW-02	By hand	3/29/2016	808.36	808.65
SW-03	By hand	3/29/2016	815.05	815.09
SW-05	By hand	3/29/2016	838.69	838.75
SW-08	By hand	3/29/2016	802.14	802.04
SW-10	By hand	3/29/2016	776.62	778.09
SW-14	By hand	7/18/2017	837.13	NS

Notes:

amsl = above mean sea level relative to North American Vertical Datum of 1988 (NAVD88). Benchmark is 34.8289659 degrees north, 82.3710354 degrees west (NAD83, 2011), elevation 929.1 ft NAVD88

ft = feet

Table 3. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Installation Method	Permit #	Date Installed	Date Abandoned	Purpose	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Measured Depth to Bottom (ft BTOC)	Bore Hole Diameter (in)	Well Dia (in)	Well Depth (ft bgs)	Bottom of Well (ft amsl)	Top of Screen or Open Borehole Interval (ft BTOC)	Bottom of Screen or Open Borehole Interval (ft BTOC)	Top of Screen or Open Borehole Interval (ft bgs)	Bottom of Screen or Open Borehole Interval (ft bgs)	Top of Screen or Open Borehole Interval (ft amsl)	Bottom of Screen or Open Borehole Interval (ft amsl)	Length of Screen or Open Borehole Interval (ft)
Monitoring Wells																			
MW-01	CME 550 HSA	MW-10136	6/26/2015	Still in use	Monitoring Well/Gauging	850.25	853.07	15.61	8	2	13.00	837.2	5.82	15.82	3.0	13.0	847.2	837.2	10.00
MW-01B	Schramm Air Rig	MW-10136	6/25/2015	Still in use	Monitoring Well/Gauging	850.45	852.99	45.26	10	6	38.50	812.0	21.03	41.03	18.5	38.5	832.0	812.0	20.00
MW-02	CME 750 HSA	MW-10136	6/25/2015	Still in use	Monitoring Well/Gauging	841.24	841.04	19.78	8	2	20.00	821.2	4.80	19.80	5.0	20.0	836.2	821.2	15.00
MW-02B	Schramm Air Rig/rehabbed (10/5/2017) with a Mobile Drill B57	MW-10136	6/24/2015	Still in use	Monitoring Well/Gauging	841.18	841.19	81.55	10	2	81.70	759.5	70.00	81.70	70.0	81.7	771.2	759.5	13
MW-03	CME 550 HSA	MW-10136	6/23/2015	Still in use	Monitoring Well/Gauging	838.38	838.36	22.19	8	2	20.00	818.4	4.98	19.98	5.0	20.0	833.4	818.4	15.00
MW-04	CME 550 HSA	MW-10136	6/23/2015	Still in use	Monitoring Well/Gauging	844.51	844.42	20.65	8	2	20.00	824.5	4.91	19.91	5.0	20.0	839.5	824.5	15.00
MW-05	CME 550 HSA	MW-10136	6/24/2015	Still in use	Monitoring Well/Gauging	851.15	851.11	19.89	8	2	20.00	831.1	4.96	19.96	5.0	20.0	846.1	831.1	15.00
MW-06	CME 550 HSA	MW-10136	6/24/2015	Still in use	Monitoring Well/Gauging	852.98	852.92	19.20	8	2	19.60	833.4	4.54	19.54	5.0	19.6	848.0	833.4	15.00
MW-06B	Mobile Drill B57	MW-11117	10/17/2017	Still in use	Monitoring Well/Gauging	852.42	852.57	85.65	13.75	4	85.20	767.2	65.50	85.50	65.5	85.5	786.9	766.9	20.00
MW-07	CME 550 HSA	MW-10136	6/25/2015	Still in use	Monitoring Well/Gauging	853.02	853.02	13.60	8	2	13.50	839.5	3.50	13.50	3.5	13.5	849.5	839.5	10
MW-08	CME 550 HSA	MW-10136	6/25/2015	Still in use	Monitoring Well/Gauging	844.75	844.72	19.80	8	2	19.70	825.1	4.67	19.67	4.7	19.7	840.1	825.1	15.00
MW-09	CME 550 HSA	MW-10136	6/25/2015	Still in use	Monitoring Well/Gauging	843.72	843.63	20.21	8	2	19.50	824.2	4.41	19.41	4.5	19.5	839.2	824.2	15.00
MW-09B	Mobile Drill B57	MW-11117	10/17/2017	Still in use	Monitoring Well/Gauging	843.71	843.92	151.00	13.75	4	151.00	692.7	132.20	151.00	132.2	151.0	711.5	692.7	20.00
MW-10	CME 550 HSA	MW-10136	6/25/2015	Still in use	Monitoring Well/Gauging	842.33	845.41	23.54	8	2	20.00	822.3	8.08	23.08	5.0	20.0	837.3	822.3	15.00
MW-11	CME 550 HSA	MW-10136	7/1/2015	Still in use	Monitoring Well/Gauging	852.36	855.63	32.50	8	2	25.20	827.2	13.27	28.27	14.2	25.0	838.2	827.4	15.00
MW-12	CME 550 HSA	MW-10136	6/25/2015	Still in use	Monitoring Well/Gauging	832.20	834.53	21.69	8	2	19.30	812.9	6.63	21.63	4.3	19.3	827.9	812.9	15.00
MW-12B	Geoprobe 3230 DT HSA	MW-10460	12/22/2015	Still in use	Monitoring Well/Gauging	832.26	834.98	45.81	10	6	43.00	789.3	35.72	45.72	33.0	43.0	799.3	789.3	10.00
MW-13	CME 550 HSA	MW-10136	6/26/2015	Still in use	Monitoring Well/Gauging	845.93	848.84	22.18	8	2	19.00	826.9	6.92	21.92	4.0	19.0	841.9	826.9	15.00
MW-13B	Geoprobe 3230 DT HSA	MW-10461	12/21/2015	Still in use	Monitoring Well/Gauging	847.19	849.82	55.36	10	6	58.00	789.2	50.64	60.64	48.0	58.0	799.2	789.2	10.00
MW-14	CME 550 HSA	MW-10136	6/26/2015	Still in use	Monitoring Well/Gauging	836.47	838.70	22.20	8	2	19.30	817.2	6.53	21.53	4.3	19.3	832.2	817.2	15.00
MW-14B	Mobile ST Schramm	MW-10578	5/3/2016	Still in use	Monitoring Well/Gauging	837.12	840.20	76.97	10	6	76.90	760.2	66.07	76.07	66.0	76.0	771.1	761.1	10.00
MW-15	CME 550 HSA	MW-10136	6/29/2015	Still in use	Monitoring Well/Gauging	828.68	831.03	21.22	8	2	19.00	809.7	6.35	21.35	4.0	19.0	824.7	809.7	15.00
MW-15B	CME 550 HSA	MW-10136	7/28/2015	Still in use	Monitoring Well/Gauging	828.66	831.29	74.41	10	6	77.85	750.8	70.48	80.48	67.9	77.9	760.8	750.8	10.00
MW-16	CME 750 HSA	MW-10136	6/26/2015	Still in use	Monitoring Well/Gauging	847.63	847.67	20.37	8	2	20.00	827.6	5.03	20.03	5.0	20.0	842.6	827.6	15.00
MW-17	CME 750 HSA	MW-10136	6/29/2015	Still in use	Monitoring Well/Gauging	855.32	855.35	15.30	8	2	11.00	844.3	6.03	11.03	6.0	11.0	849.3	844.3	5.00
MW-17B	Geoprobe 3230 DT HSA	MW-10462	1/7/2016	Still in use	Monitoring Well/Gauging	855.37	855.37	27.50	10	6	27.00	828.4	17.00	27.00	17.0	27.0	838.4	828.4	10.00
MW-18	CME 550 HSA	MW-10136	6/29/2015	Still in use	Monitoring Well/Gauging	846.82	846.89	19.75	8	2	20.00	826.8	5.06	20.06	5.0	20.0	841.8	826.8	15.00
MW-19	CME 750 HSA	MW-10136	6/29/2015	Still in use	Monitoring Well/Gauging	851.23	853.94	12.13	8	2	9.50	841.7	7.20	12.20	4.5	9.5	846.7	841.7	5.00
MW-20	CME 750 HSA	MW-10136	6/30/2015	Still in use	Monitoring Well/Gauging	853.07	852.89	19.45	8	2	19.00	834.1	3.81	18.81	4.0	19.0	849.1	834.1	15.00
MW-21	CME 750 HSA	MW-10136	6/30/2015	Still in use	Monitoring Well/Gauging	855.68	855.77	20.70	8	2	20.00	835.7	5.09	20.09	5.0	20.0	850.7	835.7	15.00
MW-22	CME 750 HSA	MW-10136	7/1/2015	Still in use	Monitoring Well/Gauging	854.62	854.60	10.30	8	2	11.00	843.6	5.98	10.98	6.0	11.0	848.6	843.6	5.00
MW-23	CME 750 HSA	MW-10136	7/1/2015	Still in use	Monitoring Well/Gauging	846.66	849.57	23.50	8	2	20.00	826.7	7.91	22.91	5.0	20.0	841.7	826.7	15.00
MW-23B	CME 550 HSA	MW-10136	7/22/2015	Still in use	Monitoring Well/Gauging	846.81	849.69	53.48	10	6	50.50	796.3	30.88	53.38	28.0	50.5	818.8	796.3	22.50
MW-24	CME 550 HSA	MW-10136	7/15/2015	Still in use	Monitoring Well/Gauging	815.72	817.92	15.30	8	2	13.00	802.7	10.20	15.20	8.0	13.0	807.7	802.7	5.00
MW-24B	CME 550 HSA	MW-10136	7/20/2015	Still in use	Monitoring Well/Gauging	815.83	818.72	45.10	10	6	39.50	776.3	22.39	42.39	19.5	39.5	796.3	776.3	20.00
MW-25	Geoprobe 3230 DT HSA	MW-10463	1/5/2016	Still in use	Monitoring Well/Gauging	823.46	826.18	18.07	8	2	15.00	808.5	8.04	18.04	5.0	15.0	818.5	808.5	10.00
MW-25B	Geoprobe 3230 DT HSA	MW-10464	1/5/2016	Still in use	Monitoring Well/Gauging	822.59	823.81	59.00	10	6	58.00	764.6	49.22	59.22	48.0	58.0	774.6	764.6	10.00
MW-26	Geoprobe 3230 DT HSA	MW-10465	1/4/2016	Still in use	Monitoring Well/Gauging	844.76	847.56	17.15	8	2	15.25	829.5	7.27	17.27	5.0	15.0	839.8	829.8	10.00
MW-26B	Geoprobe 3230 DT HSA	MW-10466	1/4/2016	Still in use	Monitoring Well/Gauging	844.81	847.81	43.84	10	6	38.00	806.8	29.00	41.00	26.0	38.0	818.8	806.8	12.00
MW-27	Geoprobe 3230 DT HSA	MW-10467	1/5/2016	Still in use	Monitoring Well/Gauging	854.22	854.11	29.51	8	2	30.25	824.0	15.11	30.11	15.0	30.0	839.2	824.2	15.00
MW-27B	CME 550 HSA / Schramm	MW-10578	4/26/2016	Still in use	Monitoring Well/Gauging	854.27	857.14	41.45	10	6	46.00	808.3	31.45	41.45	36.0	46.0	818.3	808.3	10.00
MW-28	Geoprobe 3230 DT HSA	MW-10468	1/5/2016	Still in use	Monitoring Well/Gauging	841.49	844.31	25.93	8	2	23.50	818.0	8.50	23.50	10.0	25.0	831.5	816.5	15.00
MW-29	Geoprobe 3230 DT HSA	MW-10469	1/4/2016	Still in use	Monitoring Well/Gauging	852.07	852.20	15.10	8	2	15.25	836.8	5.00	15.00	5.0	15.0	847.1	837.1	10.00
MW-30	Geoprobe 3230 DT HSA	MW-10470	1/6/2016	Still in use	Monitoring Well/Gauging	841.21	841.28	14.69	8	2	15.25	826.0	5.00	15.00	5.0	15.0	836.2	826.2	10.00
MW-31	CME 550 HSA	MW-10578	4/19/2016	Still in use	Monitoring Well/Gauging	842.26	845.04	28.20	8	2	25.00	817.3	13.20	28.20	10.0	25.0	832.3	817.3	15.00
MW-31B	CME 550 HSA / Schramm	MW-10578	4/22/2016	Still in use	Monitoring Well/Gauging	842.01	844.94	79.25	10	6	76.00	766.0	68.25	79.25	65.0	76.0	777.0	766.0	11.00

Table 3. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Installation Method	Permit #	Date Installed	Date Abandoned	Purpose	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Measured Depth to Bottom (ft BTOC)	Bore Hole Diameter (in)	Well Dia (in)	Well Depth (ft bgs)	Bottom of Well (ft amsl)	Top of Screen or Open Borehole Interval (ft BTOC)	Bottom of Screen or Open Borehole Interval (ft BTOC)	Top of Screen or Open Borehole Interval (ft bgs)	Bottom of Screen or Open Borehole Interval (ft bgs)	Top of Screen or Open Borehole Interval (ft amsl)	Bottom of Screen or Open Borehole Interval (ft amsl)	Length of Screen or Open Borehole Interval (ft)
MW-32	CME 550 HSA	MW-10578	4/19/2016	Still in use	Monitoring Well/Gauging	839.81	842.93	29.09	8	2	26.00	813.8	13.09	28.09	10.0	25.0	829.8	814.8	15.00
MW-33	CME 550 HSA	MW-10578	4/15/2016	Still in use	Monitoring Well/Gauging	846.20	849.20	28.30	8	2	27.00	819.2	11.30	26.30	10.0	25.0	836.2	821.2	15.00
MW-33T	CME 550 HSA/Air Rotary	MW-10578	4/14/2016	Still in use	Monitoring Well/Gauging	846.15	849.11	100.35	8	2	96.50	749.7	87.85	97.85	84.0	94.0	762.2	752.2	10.00
MW-34	Hand Auger	MW-10994	3/16/2017	Still in use	Monitoring Well/Gauging	813.99	816.35	7.86	4	2	5.00	809.0	5.36	7.86	2.5	5.0	811.5	809.0	2.50
MW-35	CME 550 HSA	MW-10578	4/20/2016	Still in use	Monitoring Well/Gauging	826.22	829.40	28.42	8	2	26.00	800.2	12.42	27.42	10.0	25.0	816.2	801.2	15.00
MW-36	CME 550 HSA	MW-10578	4/22/2016	Still in use	Monitoring Well/Gauging	858.66	858.47	23.65	8	2	24.50	834.2	8.65	23.65	9.5	24.5	849.2	834.2	15.00
MW-36B	CME 550 HSA / Schramm	MW-10578	4/28/2016	Still in use	Monitoring Well/Gauging	858.49	858.15	47.54	10	6	54.90	803.6	36.64	46.64	44.0	54.0	814.5	804.5	10.00
MW-37	Geoprobe 8040 HSA	MW-10759	8/9/2016	Still in use	Monitoring Well/Gauging	810.93	813.92	18.11	6.25	2	16.00	794.9	7.11	17.11	5.0	15.0	805.9	795.9	10.00
MW-38	Geoprobe 8040 HSA	MW-10759	8/9/2016	Still in use	Monitoring Well/Gauging	810.49	813.28	11.61	6.25	2	9.10	801.4	6.41	11.41	3.9	8.9	806.6	801.6	5.00
MW-39	Geoprobe 8040 HSA	MW-10759	11/29/2016	Still in use	Monitoring Well/Gauging	816.92	819.90	13.01	6.25	2	11.00	805.9	7.01	12.01	5.0	10.0	811.9	806.9	5.00
MW-40	Geoprobe 8040 HSA	MW-10759	11/30/2016	Still in use	Monitoring Well/Gauging	814.75	817.79	13.18	6.25	2	11.00	803.8	7.18	12.18	5.0	10.0	809.8	804.8	5.00
MW-41	Geoprobe 8040 HSA	MW-10759	11/28/2016	Still in use	Monitoring Well/Gauging	816.67	819.68	13.20	6.25	2	11.00	805.7	7.20	12.20	5.0	10.0	811.7	806.7	5.00
MW-42	Geoprobe 8040 HSA	MW-10759	11/28/2016	Still in use	Monitoring Well/Gauging	817.31	820.33	13.40	6.25	2	11.00	806.3	7.40	12.40	5.0	10.0	812.3	807.3	5.00
MW-43	Mobile Drill B57	MW-10964	10/20/2017	Still in use	Monitoring Well/Gauging	815.92	818.12	10.30	8.5	2	7.50	808.42	5.30	10.30	2.5	7.5	813.42	808.42	5.00
MW-43B	Mobile Drill B57	MW-10964	10/20/2017	Still in use	Monitoring Well/Gauging	816.08	818.80	54.40	13.75	4	51.00	765.08	34.40	54.40	31.0	51.0	785.08	765.08	20.00
MW-44	Hollow Stem Auger	MW-10964	1/23/2017	Still in use	Monitoring Well/Gauging	853.82	853.67	9.82	6.25	2	10.00	843.8	4.82	9.82	5.0	10.0	848.8	843.8	5.00
MW-44B	Hollow Stem Auger/Wire Line/Air Rotary	MW-10964	1/23/2017	Still in use	Monitoring Well/Gauging	853.66	853.38	34.50	10.25	4	37.10	816.6	13.50	34.50	16.1	37.1	837.6	816.6	21.00
MW-45	Hollow Stem Auger	MW-10964	1/26/2017	Still in use	Monitoring Well/Gauging	852.39	852.47	14.42	6.25	2	14.00	838.4	4.42	14.42	4.0	14.0	848.4	838.4	10.00
MW-45B	Hollow Stem Auger/Wire Line/Air Rotary	MW-10964	1/25/2017	Still in use	Monitoring Well/Gauging	852.69	852.85	40.30	10.25	4	40.30	812.4	19.00	40.30	19.0	40.3	833.7	812.4	21.30
MW-46	Geoprobe 8040 DT	MW-11117	9/13/2017	Still in use	Monitoring Well/Gauging	842.43	845.47	17.05	8.5	2	14.00	828.4	12.05	17.05	9.0	14.0	833.4	828.4	5.00
MW-47	Geoprobe 8040 DT	MW-11117	9/14/2017	Still in use	Monitoring Well/Gauging	839.89	842.98	22.79	8.5	2	20.00	819.9	12.79	22.79	10.0	20.0	829.9	819.9	10.00
MW-48B	Mobile Drill B57	MW-11117	10/18/2017	Still in use	Monitoring Well/Gauging	829.53	832.34	94.50	13.75	4	91.00	738.5	74.50	94.50	71.0	91.0	758.5	738.5	20.00
MW-49	Geoprobe 8040 DT	MW-11117	9/14/2017	Still in use	Monitoring Well/Gauging	843.65	846.78	23.30	8.5	2	21.00	822.7	8.30	23.30	6.0	21.0	837.7	822.7	15.00
MW-50B	Mobile Drill B57	MW-11247	10/17/2017	Still in use	Monitoring Well/Gauging	847.11	850.34	109.60	13.75	4	106.00	741.1	89.60	109.60	96.0	106.0	751.1	741.1	20.00
Recovery Wells																			
RW-01	HSA	MW-09978	1/28/2015	Still in use	Gauging/LNAPL Recovery	849.49	851.92	20.80	6.25	4	17	832.5	4.44	19.44	2.0	17.0	847.5	832.5	15
RW-02	HSA	MW-09978	1/29/2015	Still in use	Gauging/LNAPL Recovery	850.22	852.69	25.72	6.25	4	23	827.2	15.47	25.47	13.0	23.0	837.2	827.2	10
RW-03	HSA	MW-09978	1/29/2015	Still in use	Gauging/LNAPL Recovery	850.03	852.34	33.39	6.25	4	31.2	818.8	18.51	33.51	16.2	31.2	833.8	818.8	15
RW-04	HSA	MW-09978	1/29/2015	Still in use	Gauging/LNAPL Recovery	852.15	853.93	35.04	6.25	4	33	819.2	14.78	34.78	13.0	33.0	839.2	819.2	20
RW-05	HSA	MW-09978	1/30/2015	Still in use	Gauging/LNAPL Recovery	850.99	853.53	38.25	6.25	4	34.5	816.5	22.04	37.04	19.5	34.5	831.5	816.5	15
RW-06	HSA	MW-09978	1/30/2015	Still in use	Gauging/LNAPL Recovery	844.21	846.21	38.50	6.25	4	38.5	805.7	20.49	40.49	18.5	38.5	825.7	805.7	20
RW-07	HSA	MW-09978	2/2/2015	Still in use	Gauging/LNAPL Recovery	841.01	843.19	38.00	6.25	4	38	803.0	15.18	40.18	13.0	38.0	828.0	803.0	25
RW-08	HSA	MW-09978	2/2/2015	Still in use	Gauging/LNAPL Recovery	833.46	835.48	33.50	6.25	4	33.5	800.0	10.52	35.52	8.5	33.5	825.0	800.0	25
RW-09	HSA	MW-09978	2/3/2015	Still in use	Gauging/LNAPL Recovery	831.13	835.12	42.13	6.25	4	41.5	789.6	15.49	45.49	11.5	41.5	819.6	789.6	30
RW-10	HSA	MW-10006	2/4/2015	Still in use	Gauging/LNAPL Recovery	846.76	848.53	66.51	6.25	4	68.5	778.3	5.27	70.27	3.5	68.5	843.3	778.3	65
RW-11	HSA	MW-10006	2/4/2015	Still in use	Gauging/LNAPL Recovery	851.03	852.97	21.40	6.25	4	19.5	831.5	6.44	21.44	4.5	19.5	846.5	831.5	15
RW-12	HSA	MW-10006	2/5/2015	Still in use	Gauging/LNAPL Recovery	851.64	854.49	16.90	6.25	4	14	837.6	6.90	16.90	4.0	14.0	847.6	837.6	10
RW-13	HSA	MW-10006	2/5/2015	Still in use	Gauging/LNAPL Recovery	847.57	847.97	45.53	6.25	4	50	797.6	0.53	45.53	5.0	50.0	842.6	797.6	45
RW-14	HSA	MW-10006	2/6/2015	Still in use	Gauging/LNAPL Recovery	826.25	827.54	55.00	6.25	4	55	771.2	5.00	55.00	5.0	55.0	821.2	771.2	50
RW-15	HSA	MW-10006	2/10/2015	Still in use	Gauging/LNAPL Recovery	849.48	851.64	36.50	6.25	4	36.5	813.0	1.50	36.50	1.5	36.5	848.0	813.0	35
Recovery Sumps																			
RS-01	Trackhoe	MW-09978	12/29/2014	Still in use	Gauging/LNAPL Recovery	847.95	849.13	23.60	NA	4	22.42	825.5	3.18	23.60	2.0	22.4	845.9	825.5	20.42
RS-02	Trackhoe	MW-09978	12/29/2014	Still in use	Gauging/LNAPL Recovery	848.54	849.52	20.00	NA	4	19.02	829.5	2.98	20.00	2.0	19.0	846.5	829.5	17.02
RS-04	Trackhoe	MW-09978	12/30/2014	Still in use	Gauging/LNAPL Recovery	850.36	851.47	10.75	NA	4	9.64	840.7	3.11	10.75	2.0	9.6	848.4	840.7	7.64
RS-05	Trackhoe	MW-09978	12/31/2014	Still in use	Gauging/LNAPL Recovery	847.14	848.31	25.20	NA	4	24.03	823.1	3.17	25.20	2.0	24.0	845.1	823.1	22.03
RS-06	Trackhoe	MW-09978	12/31/2014	Still in use	Gauging/LNAPL Recovery	848.25	849.47	25.18	NA	4	23.96	824.3	3.22	25.18	2.0	24.0	846.2	824.3	21.96
RS-07	Trackhoe	MW-09978	12/31/2014	Still in use	Gauging/LNAPL Recovery	854.06	855.08	16.65	NA	4	15.63	838.4	3.02	16.65	2.0	15.6	852.1	838.4	13.63

Table 3. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Installation Method	Permit #	Date Installed	Date Abandoned	Purpose	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Measured Depth to Bottom (ft BTOC)	Bore Hole Diameter (in)	Well Dia (in)	Well Depth (ft bgs)	Bottom of Well (ft amsl)	Top of Screen or Open Borehole Interval (ft BTOC)	Bottom of Screen or Open Borehole Interval (ft BTOC)	Top of Screen or Open Borehole Interval (ft bgs)	Bottom of Screen or Open Borehole Interval (ft bgs)	Top of Screen or Open Borehole Interval (ft amsl)	Bottom of Screen or Open Borehole Interval (ft amsl)	Length of Screen or Open Borehole Interval (ft)
RS-08	Trackhoe	MW-09978	12/31/2014	Still in use	Gauging/LNAPL Recovery	852.59	854.00	20.22	NA	4	18.81	833.8	3.41	20.22	2.0	18.8	850.6	833.8	16.81
RS-09	Trackhoe	MW-09978	1/7/2015	Still in use	Gauging/LNAPL Recovery	846.75	847.60	18.85	NA	4	18.00	828.8	2.85	18.85	2.0	18.0	844.8	828.8	16.00
RS-10	Trackhoe	MW-09978	1/7/2015	Still in use	Gauging/LNAPL Recovery	846.28	847.42	20.06	NA	4	18.92	827.4	3.14	20.06	2.0	18.9	844.3	827.4	16.92
RS-11	Trackhoe	MW-09978	1/7/2015	Still in use	Gauging/LNAPL Recovery	846.35	847.44	22.06	NA	4	20.97	825.4	3.09	22.06	2.0	21.0	844.3	825.4	18.97
RS-12	Trackhoe	MW-09978	1/7/2015	Still in use	Gauging/LNAPL Recovery	846.58	847.74	21.29	NA	4	20.13	826.5	3.16	21.29	2.0	20.1	844.6	826.5	18.13
RS-13	Trackhoe	MW-09978	1/8/2015	Still in use	Gauging/LNAPL Recovery	845.39	845.98	19.92	NA	4	19.33	826.1	1.96	19.92	1.4	19.3	844.0	826.1	17.96
RS-14	Trackhoe	MW-09978	1/8/2015	Still in use	Gauging/LNAPL Recovery	844.66	845.97	19.93	NA	4	18.62	826.0	3.31	19.93	2.0	18.6	842.7	826.0	16.62
RS-15	Trackhoe	MW-09978	1/8/2015	Still in use	Gauging/LNAPL Recovery	845.36	846.41	19.93	NA	4	18.88	826.5	3.05	19.93	2.0	18.9	843.4	826.5	16.88
RS-16	Trackhoe	MW-09978	1/8/2015	Still in use	Gauging/LNAPL Recovery	844.56	845.44	19.98	NA	4	19.10	825.5	2.88	19.98	2.0	19.1	842.6	825.5	17.10
RS-17	Trackhoe	MW-09978	1/8/2015	Still in use	Gauging/LNAPL Recovery	843.29	844.22	19.91	NA	4	18.98	824.3	2.93	19.91	2.0	19.0	841.3	824.3	16.98
RS-18	Trackhoe	MW-09978	1/8/2015	Still in use	Gauging/LNAPL Recovery	846.82	847.89	19.98	NA	4	18.91	827.9	3.07	19.98	2.0	18.9	844.8	827.9	16.91
RS-20	Trackhoe	MW-09978	3/19/2015	Still in use	Gauging/LNAPL Recovery	841.73	842.69	11.84	NA	4	9.91	831.8	3.93	11.84	2.0	9.9	839.7	831.8	7.91
Recovery Trench Sumps																			
RT-1A	Trackhoe	MW-09978	1/6/2015	Still in use	Gauging/LNAPL Recovery	852.86	854.06	20.89	NA	4	20.00	832.9	3.20	21.20	2.0	20.0	850.9	832.9	18
RT-1B	Trackhoe	MW-09978	1/6/2015	Still in use	Gauging/LNAPL Recovery	853.29	854.15	21.10	NA	4	20.00	833.3	2.86	20.86	2.0	20.0	851.3	833.3	18
RT-1C	Trackhoe	MW-09978	1/6/2015	Still in use	Gauging/LNAPL Recovery	853.55	854.55	21.27	NA	4	20.00	833.5	3.00	21.00	2.0	20.0	851.5	833.5	18
RT-2A	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	815.66	817.48	10.81	NA	4	10.00	805.7	3.82	11.82	2.0	10.0	813.7	805.7	8
RT-2B	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	816.72	817.61	10.82	NA	4	10.00	806.7	2.89	10.89	2.0	10.0	814.7	806.7	8
RT-2C	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	816.86	818.06	10.23	NA	4	10.00	806.9	3.20	11.20	2.0	10.0	814.9	806.9	8
RT-2D	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	817.11	818.12	10.21	NA	4	10.00	807.1	3.01	11.01	2.0	10.0	815.1	807.1	8
RT-2E	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	817.32	818.25	10.24	NA	4	10.00	807.3	2.93	10.93	2.0	10.0	815.3	807.3	8
RT-2F	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	817.74	818.57	10.23	NA	4	10.00	807.7	2.83	10.83	2.0	10.0	815.7	807.7	8
RT-2G	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	819.27	820.07	10.24	NA	4	10.00	809.3	2.80	10.80	2.0	10.0	817.3	809.3	8
RT-2I	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	819.23	819.51	10.20	NA	4	10.00	809.2	2.28	10.28	2.0	10.0	817.2	809.2	8
RT-2J	Trackhoe	MW-09978	1/22/2015	Still in use	Gauging/LNAPL Recovery	817.47	817.63	10.22	NA	4	10.00	807.5	2.16	10.16	2.0	10.0	815.5	807.5	8
RT-2K	Trackhoe	MW-09978	3/20/2015	Still in use	Gauging/LNAPL Recovery	816.11	817.40	4.14	NA	4	2.50	813.6	2.64	4.14	1.0	2.5	815.1	813.6	2
RT-2L	Trackhoe	MW-09978	3/20/2015	Still in use	Gauging/LNAPL Recovery	817.95	819.54	6.60	NA	4	3.71	814.2	3.89	6.60	1.0	3.7	816.9	814.2	3
Piezometers																			
TW-04R	DPT	MW-10006	2/4/2015	Still in use	Gauging	852.68	852.64	5.46	2.2	1	5.5	847.2	2.46	5.46	2.5	5.5	850.2	847.2	3
TW-05R	DPT	MW-10006	2/4/2015	Still in use	Gauging	849.96	849.93	8.87	2.2	1	8.8	841.2	2.87	8.87	2.8	8.9	847.2	841.1	6
TW-14R	DPT	MW-10006	2/4/2015	Still in use	Gauging	853.47	853.37	6.20	2.2	1	6.5	847.0	2.20	6.20	2.5	6.3	851.0	847.2	4
TW-15R	DPT	MW-10006	2/4/2015	Still in use	Gauging	850.70	850.62	4.85	2.2	1	5	845.7	1.85	4.85	2.0	4.9	848.7	845.8	3
TW-21	DPT	MW-09978	1/22/2015	Still in use	Gauging	849.72	849.70	9.54	2.2	1	14	835.7	-0.46	9.54	4.0	9.6	845.7	840.2	10
TW-28	DPT	MW-09978	1/23/2015	Still in use	Gauging	851.57	851.42	31.84	2.2	1	30	821.6	11.84	31.84	10.0	32.0	841.6	819.6	20
TW-30	DPT	MW-09978	1/23/2015	Still in use	Gauging	851.86	851.81	23.15	2.2	1	24	827.9	8.15	23.15	9.0	23.2	842.9	828.7	15
TW-34	DPT	MW-09978	1/24/2015	Still in use	Gauging	854.92	854.79	25.04	2.2	1	23	831.9	10.04	25.04	8.0	25.2	846.9	829.7	15
TW-35	DPT	MW-09978	1/24/2015	Still in use	Gauging	854.22	854.10	25.12	2.2	1	23	831.2	10.12	25.12	8.0	25.2	846.2	829.0	15
TW-40	DPT	MW-09978	1/24/2015	Still in use	Gauging	853.45	853.35	34.05	2.2	1	33	820.5	14.05	34.05	13.0	34.2	840.5	819.3	20
TW-41	DPT	MW-09978	1/25/2015	Still in use	Gauging	849.38	849.38	32.15	2.2	1	34	815.4	7.15	32.15	9.0	32.1	840.4	817.2	25
TW-42	DPT	MW-09978	1/25/2015	Still in use	Gauging	847.02	846.84	27.50	2.2	1	29.5	817.5	7.50	27.50	9.5	27.7	837.5	819.3	20
TW-45	DPT	MW-09978	1/25/2015	Still in use	Gauging	848.26	848.31	36.86	2.2	1	37.5	810.8	11.86	36.86	12.5	36.8	835.8	811.4	25
TW-55	DPT	MW-10006	2/5/2015	Still in use	Gauging	846.00	845.93	41.50	2.7	1	43	803.0	11.50	41.50	13.0	41.6	833.0	804.4	30
TW-59	DPT	MW-09978	1/30/2015	Still in use	Gauging	834.84	834.78	21.15	2.7	1	22	812.8	6.15	21.15	7.0	21.2	827.8	813.6	15
TW-60	DPT	MW-09978	1/30/2015	Still in use	Gauging	828.00	828.03	37.20	2.7	1	41.5	786.5	2.20	37.20	6.5	37.2	821.5	790.8	35
TW-64	DPT	MW-09978	2/2/2015	Still in use	Gauging	845.89	845.88	52.85	2.2	1	55	790.9	2.85	52.85	5.0	52.9	840.9	793.0	50
TW-65	DPT	MW-09978	2/2/2015	Still in use	Gauging	845.66	845.62	44.81	2.2	1	44.5	801.2	9.81	44.81	9.5	44.8	836.2	800.8	35
TW-66	DPT	MW-09978	2/2/2015	Still in use	Gauging	820.18	820.31	23.81	2.7	1	24	796.2	3.81	23.81	4.0	23.7	816.2	796.5	20
TW-67	DPT	MW-09978	2/3/2015	Still in use	Gauging	852.88	852.71	26.47	2.7	1	27	825.9	6.47	26.47	7.0	26.6	845.9	826.2	20
TW-68	DPT	MW-09978	2/3/2015	Still in use	Gauging	846.59	846.45	29.96	2.2	1	27	819.6	9.96	29.96	7.0	30.1	839.6	816.5	20

Table 3. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Installation Method	Permit #	Date Installed	Date Abandoned	Purpose	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Measured Depth to Bottom (ft BTOC)	Bore Hole Diameter (in)	Well Dia (in)	Well Depth (ft bgs)	Bottom of Well (ft amsl)	Top of Screen or Open Borehole Interval (ft BTOC)	Bottom of Screen or Open Borehole Interval (ft BTOC)	Top of Screen or Open Borehole Interval (ft bgs)	Bottom of Screen or Open Borehole Interval (ft bgs)	Top of Screen or Open Borehole Interval (ft amsl)	Bottom of Screen or Open Borehole Interval (ft amsl)	Length of Screen or Open Borehole Interval (ft)
TW-69	DPT	MW-09978	2/3/2015	Still in use	Gauging	840.38	840.27	51.91	2.2	1	50	790.4	11.91	51.91	10.0	52.0	830.4	788.4	40
TW-70	DPT	MW-09978	2/3/2015	Still in use	Gauging	842.07	841.95	45.05	2.2	1	43	799.1	10.05	45.05	8.0	45.2	834.1	796.9	35
TW-73	DPT	MW-09978	2/3/2015	Still in use	Gauging	850.60	850.53	16.00	2.7	1	16	834.6	6.00	16.00	6.0	16.1	844.6	834.5	10
TW-76	DPT	MW-10006	2/4/2015	Still in use	Gauging	852.53	852.44	43.62	2.7	1	43	809.5	8.62	43.62	8.0	43.7	844.5	808.8	35
TW-81	DPT	MW-10006	2/5/2015	Still in use	Gauging	849.48	849.43	7.00	2.2	1	7	842.5	2.00	7.00	2.0	7.0	847.5	842.4	5
TW-82	DPT	MW-10006	2/5/2015	Still in use	Gauging	849.83	849.64	10.00	2.2	1	10	839.8	2.00	10.00	2.0	10.2	847.8	839.6	8
TW-83	DPT	MW-10006	2/5/2015	Still in use	Gauging	850.54	850.44	17.00	2.2	1	17	833.5	2.00	17.00	2.0	17.1	848.5	833.4	15
TW-84	DPT	MW-10006	2/5/2015	Still in use	Gauging	851.38	851.22	13.50	2.2	1	13.5	837.9	3.50	13.50	3.5	13.7	847.9	837.7	10
TW-85	DPT	MW-10006	2/5/2015	Still in use	Gauging	843.64	843.49	39.00	2.7	1	39	804.6	9.00	39.00	9.0	39.2	834.6	804.5	30
TW-86	DPT	MW-10006	2/5/2015	Still in use	Gauging	853.28	853.10	6.00	2.2	1	6	847.3	2.00	6.00	2.0	6.2	851.3	847.1	4
TW-87	DPT	MW-10006	2/5/2015	Still in use	Gauging	852.33	852.25	7.00	2.2	1	7	845.3	2.00	7.00	2.0	7.1	850.3	845.3	5
TW-90	DPT	MW-10006	2/6/2015	Still in use	Gauging	845.48	845.43	46.50	2.7	1	46.5	799.0	6.50	46.50	6.5	46.6	839.0	798.9	40
TW-94	DPT	MW-10006	2/10/2015	Still in use	Gauging	840.75	840.58	40.00	2.7	1	40	800.8	5.00	40.00	5.0	40.2	835.8	800.6	35
TW-96	DPT	MW-10006	2/11/2015	Still in use	Gauging	840.52	840.40	28.76	2.7	1	30	810.5	3.76	28.76	5.0	28.9	835.5	811.6	25
Vertical Air Sparging Wells																			
VAS-01	Mobile B57 HSA	SCHE03020469	7/28/2016	Still in use	Cupboard Creek Protection	853.269	NS	NA	8.50	2.00	32.20	NA	NA	NA	28.70	31.20	NA	NA	2.50
VAS-02	Mobile B57 HSA	SCHE03020469	7/27/2016	Still in use	Cupboard Creek Protection	852.360	NS	NA	8.50	2.00	27.00	NA	NA	NA	23.50	26.00	NA	NA	2.50
VAS-03	Mobile B57 HSA	SCHE03020469	7/27/2016	Still in use	Cupboard Creek Protection	852.132	NS	NA	8.50	2.00	18.30	NA	NA	NA	14.80	17.30	NA	NA	2.50
VAS-04	Geoprobe 8040 HSA	SCHE03020469	8/4/2016	Still in use	Cupboard Creek Protection	852.056	NS	NA	8.50	2.00	16.70	NA	NA	NA	13.20	15.70	NA	NA	2.50
VAS-05	Mobile B57 HSA	SCHE03020469	7/27/2016	Still in use	Cupboard Creek Protection	851.559	NS	NA	8.50	2.00	13.00	NA	NA	NA	9.50	12.00	NA	NA	2.50
VAS-06	Mobile B57 HSA	SCHE03020469	7/26/2016	Still in use	Cupboard Creek Protection	851.612	NS	NA	8.50	2.00	14.40	NA	NA	NA	10.90	13.40	NA	NA	2.50
VAS-07	Mobile B57 HSA	SCHE03020469	7/26/2016	Still in use	Cupboard Creek Protection	851.603	NS	NA	8.50	2.00	19.40	NA	NA	NA	15.90	18.40	NA	NA	2.50
VAS-08	Mobile B57 HSA	SCHE03020469	7/25/2016	Still in use	Cupboard Creek Protection	851.583	NS	NA	8.50	2.00	22.00	NA	NA	NA	18.50	21.00	NA	NA	2.50
VAS-09	Mobile B57 HSA	SCHE03020469	7/25/2016	Still in use	Cupboard Creek Protection	851.607	NS	NA	8.50	2.00	14.00	NA	NA	NA	10.50	13.00	NA	NA	2.50
VAS-10	Mobile B57 HSA	SCHE03020469	7/25/2016	Still in use	Cupboard Creek Protection	851.411	NS	NA	8.50	2.00	16.10	NA	NA	NA	12.60	15.10	NA	NA	2.50
VAS-11	Mobile B57 HSA	SCHE03020469	7/28/2016	Still in use	Cupboard Creek Protection	852.476	NS	NA	8.50	2.00	25.30	NA	NA	NA	21.80	24.30	NA	NA	2.50
VAS-12	Geoprobe 8040 HSA	SCHE03020469	8/5/2016	Still in use	Cupboard Creek Protection	851.535	NS	NA	8.50	2.00	24.20	NA	NA	NA	20.70	23.20	NA	NA	2.50
VAS-13	Geoprobe 8040 HSA	SCHE03020469	8/5/2016	Still in use	Cupboard Creek Protection	851.701	NS	NA	8.50	2.00	19.60	NA	NA	NA	16.10	18.60	NA	NA	2.50
VAS-14	Geoprobe 8040 HSA	SCHE03020469	8/4/2016	Still in use	Cupboard Creek Protection	851.239	NS	NA	8.50	2.00	16.20	NA	NA	NA	12.70	15.20	NA	NA	2.50
VAS-15	Geoprobe 8040 HSA	SCHE03020469	8/4/2016	Still in use	Cupboard Creek Protection	850.732	NS	NA	8.50	2.00	15.50	NA	NA	NA	12.00	14.50	NA	NA	2.50
VAS-16	Geoprobe 8040 HSA	SCHE03020469	8/3/2016	Still in use	Cupboard Creek Protection	850.305	NS	NA	8.50	2.00	17.90	NA	NA	NA	14.40	16.90	NA	NA	2.50
VAS-17	Geoprobe 8040 HSA	SCHE03020469	8/3/2016	Still in use	Cupboard Creek Protection	849.842	NS	NA	8.50	2.00	19.30	NA	NA	NA	15.80	18.30	NA	NA	2.50
VAS-18	Geoprobe 8040 HSA	SCHE03020469	8/8/2016	Still in use	Cupboard Creek Protection	849.513	NS	NA	8.50	2.00	16.50	NA	NA	NA	13.00	15.50	NA	NA	2.50
VAS-19	Mobile B57 HSA	SCHE03020469	7/26/2016	Still in use	Cupboard Creek Protection	850.465	NS	NA	8.50	2.00	17.20	NA	NA	NA	13.60	16.10	NA	NA	2.50
VAS-20	Mobile B57 HSA	SCHE03020469	7/19/2016	Still in use	Brown's Creek Protection	827.789	NS	NA	8.50	2.00	47.60	NA	NA	NA	44.60	47.10	NA	NA	2.50
VAS-21	Mobile B57 HSA	SCHE03020469	7/19/2016	Still in use	Brown's Creek Protection	826.304	NS	NA	8.50	2.00	53.50	NA	NA	NA	50.00	52.50	NA	NA	2.50
VAS-22	Mobile B57 HSA	SCHE03020469	7/21/2016	Still in use	Brown's Creek Protection	827.394	NS	NA	8.50	2.00	57.00	NA	NA	NA	53.50	56.00	NA	NA	2.50
VAS-23	Mobile B57 HSA	SCHE03020469	7/22/2016	Still in use	Brown's Creek Protection	827.211	NS	NA	8.50	2.00	49.50	NA	NA	NA	46.00	48.50	NA	NA	2.50
VAS-24	Mobile B57 HSA	SCHE03020469	7/5/2016	Still in use	Brown's Creek Protection	826.803	NS	NA	8.50	2.00	58.50	NA	NA	NA	55.00	57.50	NA	NA	2.50
VAS-25	Mobile B57 HSA	SCHE03020469	7/11/2016	Still in use	Brown's Creek Protection	826.411	NS	NA	8.50	2.00	54.00	NA	NA	NA	50.50	53.00	NA	NA	2.50
VAS-26	Mobile B57 HSA	SCHE03020469	7/11/2016	Still in use	Brown's Creek Protection	825.180	NS	NA	8.50	2.00	55.00	NA	NA	NA	51.50	54.00	NA	NA	2.50
VAS-27	Mobile B57 HSA	SCHE03020469	7/8/2016	Still in use	Brown's Creek Protection	826.369	NS	NA	8.50	2.00	54.00	NA	NA	NA	50.50	53.00	NA	NA	2.50
VAS-28	Mobile B57 HSA	SCHE03020469	7/6/2016	Still in use	Brown's Creek Protection	828.930	NS	NA	8.50	2.00	23.10	NA	NA	NA	19.80	22.30	NA	NA	2.50
VAS-29	Mobile B57 HSA	SCHE03020469	7/6/2016	Still in use	Brown's Creek Protection	832.025	NS	NA	8.50	2.00	27.50	NA	NA	NA	24.00	26.50	NA	NA	2.50
VAS-30	Mobile B57 HSA	SCHE03020469	6/21/2016	Still in use	Brown's Creek Protection	831.485	NS	NA	8.50	2.00	52.90	NA	NA	NA	49.40	51.90	NA	NA	2.50

Table 3. Well Construction Information

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Installation Method	Permit #	Date Installed	Date Abandoned	Purpose	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Measured Depth to Bottom (ft BTOC)	Bore Hole Diameter (in)	Well Dia (in)	Well Depth (ft bgs)	Bottom of Well (ft amsl)	Top of Screen or Open Borehole Interval (ft BTOC)	Bottom of Screen or Open Borehole Interval (ft BTOC)	Top of Screen or Open Borehole Interval (ft bgs)	Bottom of Screen or Open Borehole Interval (ft bgs)	Top of Screen or Open Borehole Interval (ft amsl)	Bottom of Screen or Open Borehole Interval (ft amsl)	Length of Screen or Open Borehole Interval (ft)
VAS-31	Mobile B57 HSA	SCHE03020469	6/21/2016	Still in use	Brown's Creek Protection	828.337	NS	NA	8.50	2.00	42.00	NA	NA	NA	38.50	41.00	NA	NA	2.50
VAS-32	Mobile B57 HSA	SCHE03020469	6/30/2016	Still in use	Brown's Creek Protection	836.257	NS	NA	8.50	2.00	43.00	NA	NA	NA	39.50	42.00	NA	NA	2.50
VAS-33	Mobile B57 HSA	SCHE03020469	6/29/2016	Still in use	Brown's Creek Protection	840.900	NS	NA	8.50	2.00	52.60	NA	NA	NA	49.10	51.60	NA	NA	2.50
VAS-34	Mobile B57 HSA	SCHE03020469	7/13/2016	Still in use	Brown's Creek Protection	836.585	NS	NA	8.50	2.00	53.50	NA	NA	NA	50.00	52.50	NA	NA	2.50
VAS-35	Mobile B57 HSA	SCHE03020469	7/13/2016	Still in use	Brown's Creek Protection	831.212	NS	NA	8.50	2.00	40.00	NA	NA	NA	36.50	39.00	NA	NA	2.50
VAS-36	Mobile B57 HSA	SCHE03020469	7/7/2016	Still in use	Brown's Creek Protection	831.361	NS	NA	8.50	2.00	33.20	NA	NA	NA	29.70	32.20	NA	NA	2.50
VAS-37	Mobile B57 HSA	SCHE03020469	7/7/2016	Still in use	Brown's Creek Protection	832.454	NS	NA	8.50	2.00	16.50	NA	NA	NA	13.00	15.50	NA	NA	2.50
VAS-38	Mobile B57 HSA	SCHE03020469	7/6/2016	Still in use	Brown's Creek Protection	834.566	NS	NA	8.50	2.00	21.10	NA	NA	NA	16.60	19.10	NA	NA	2.50
VAS-39	Mobile B57 HSA	SCHE03020469	6/22/2016	Still in use	Brown's Creek Protection	835.956	NS	NA	8.50	2.00	42.40	NA	NA	NA	38.90	41.40	NA	NA	2.50
VAS-40	Mobile B57 HSA	SCHE03020469	6/23/2016	Still in use	Brown's Creek Protection	833.753	NS	NA	8.50	2.00	40.00	NA	NA	NA	36.50	39.00	NA	NA	2.50
VAS-41	Mobile B57 HSA	SCHE03020469	6/28/2016	Still in use	Brown's Creek Protection	845.071	NS	NA	8.50	2.00	27.80	NA	NA	NA	24.30	26.80	NA	NA	2.50
VAS-42A	Mobile B57 HSA	SCHE03020469	7/14/2016	Still in use	Brown's Creek Protection	845.304	NS	NA	8.50	2.00	39.30	NA	NA	NA	35.80	38.30	NA	NA	2.50
VAS-43A	Mobile B57 HSA	SCHE03020469	7/15/2016	Still in use	Brown's Creek Protection	843.078	NS	NA	8.50	2.00	66.50	NA	NA	NA	63.00	65.50	NA	NA	2.50
VAS-44A	Mobile B57 HSA	SCHE03020469	7/18/2016	Still in use	Brown's Creek Protection	838.353	NS	NA	8.50	2.00	72.50	NA	NA	NA	69.00	71.50	NA	NA	2.50
VAS-46	Mobile B57 HSA	SCHE03020469	6/24/2016	Still in use	Brown's Creek Protection	839.503	NS	NA	8.50	2.00	20.80	NA	NA	NA	18.00	20.50	NA	NA	2.50
Vertical Bedrock Sparging Wells																			
VBS-01	Hollow Stem Auger/Wire Line/Air Rotary	SCHE03020469M	1/28/2017	Still in use	Brown's Creek Protection	NS	NS	38.15	4.00	2.00	38.50	NA	NA	NA	34.50	38.50	NA	NA	2.00
VBS-02	Hollow Stem Auger/Wire Line/Air Rotary	SCHE03020469M	1/28/2017	Still in use	Brown's Creek Protection	NS	NS	31.05	4.00	2.00	31.00	NA	NA	NA	27.00	31.00	NA	NA	2.00
VBS-03	Hollow Stem Auger/Wire Line/Air Rotary	SCHE03020469M	1/27/2017	Still in use	Brown's Creek Protection	NS	NS	36.20	4.00	2.00	36.20	NA	NA	NA	32.20	36.20	NA	NA	2.00

Notes:

amsl = above mean sea level relative to North American Vertical Datum of 1988 (NAVD88). Benchmark is 34.8289659 degrees north, 82.3710354 degrees west (NAD83, 2011), elevation 929.1 ft NAVD88

bgs = below ground surface

BTOC = below top of casing

DPT = direct push

ft = feet

HSA = hollow-stem auger

in = inches

NA = not applicable

NS = location not surveyed

RNE = Refusal not encountered

TOC = top of casing

Table 4. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[1,2] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[3] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-01					853.07			-	-	-
	11/12/2017	-	7.75	-		845.32	-	-	-	-
	11/7/2017	-	6.63	-		846.44	-	-	-	-
MW-01B					852.99			-	-	-
	11/12/2017	-	9.47	-		843.52	-	-	-	-
	11/7/2017	-	9.55	-		843.44	-	-	-	-
MW-02					841.04			-	-	-
	11/12/2017	-	3.47	-		837.57	-	-	-	-
	11/7/2017	-	4.20	-		836.84	-	-	-	-
MW-02B					841.19			-	-	-
	11/12/2017	-	23.45	-		817.74	-	-	-	-
	11/10/2017	-	7.03	-		834.16	-	-	-	-
	11/7/2017	-	13.41	-		827.78	-	-	-	-
MW-03					838.36			-	-	-
	11/12/2017	-	NM	-		-	-	-	-	-
	11/7/2017	-	1.50	-		836.86	-	-	-	-
MW-04					844.42			-	-	-
	11/12/2017	-	10.68	-		833.74	-	-	-	-
	11/7/2017	-	11.03	-		833.39	-	-	-	-
MW-05					851.11			-	-	-
	11/12/2017	-	16.95	-		834.16	-	-	-	-
	11/7/2017	-	17.18	-		833.93	-	-	-	-
MW-06					852.92			-	-	-
	11/12/2017	-	15.90	-		837.02	-	-	-	-
MW-06B					852.57			-	-	-
	11/12/2017	-	15.57	-		837.00	-	-	-	-
	11/10/2017	-	15.59	-		836.98	-	-	-	-
MW-07					853.02			-	-	-
	11/12/2017	-	13.20	-		839.82	-	-	-	-
	11/7/2017	-	13.20	-		839.82	-	-	-	-
MW-08					844.72			-	-	-
	11/12/2017	-	10.25	-		834.47	-	-	-	-
	11/7/2017	-	10.38	-		834.34	-	-	-	-
MW-09					843.63			-	-	-
	11/12/2017	-	4.57	-		839.06	-	-	-	-
	11/7/2017	-	5.56	-		838.07	-	-	-	-
MW-09B					843.92			-	-	-
	11/12/2017	-	32.08	-		811.84	-	-	-	-
	11/10/2017	-	40.58	-		803.34	-	-	-	-
MW-10					845.41			-	-	-
	11/12/2017	-	11.95	-		833.46	-	-	-	-
	11/7/2017	-	12.64	-		832.77	-	-	-	-
MW-11					855.63			-	-	-
	11/12/2017	30.00	30.35	0.35		825.28	825.53	-	-	-
	11/7/2017	30.26	30.52	0.26		825.11	825.30	-	-	-
MW-12					834.53			-	-	-
	11/12/2017	-	14.45	-		820.08	-	-	-	-
	11/7/2017	-	14.00	-		820.53	-	-	-	-
MW-12B					834.98			-	-	-
	11/12/2017	-	14.91	-		820.07	-	-	-	-
	11/7/2017	-	14.25	-		820.73	-	-	-	-
MW-13					848.84			-	-	-
	11/12/2017	-	21.85	-		826.99	-	-	-	-
MW-13B					849.82			-	-	-
	11/12/2017	-	22.83	-		826.99	-	-	-	-
	11/7/2017	-	23.08	-		826.74	-	-	-	-

Table 4. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[1,2] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[3] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-14					838.70			-	-	-
	11/12/2017	-	17.80	-		820.90	-	-	-	-
MW-14B					840.20			-	-	-
	11/12/2017	-	19.36	-		820.84	-	-	-	-
MW-15					831.03			-	-	-
	11/12/2017	-	14.75	-		816.28	-	-	-	-
	11/7/2017	-	13.32	-		817.71	-	-	-	-
MW-15B					831.29			-	-	-
	11/12/2017	-	15.91	-		815.38	-	-	-	-
	11/7/2017	-	16.08	-		815.21	-	-	-	-
MW-16					847.67			-	-	-
	11/12/2017	-	10.00	-		837.67	-	-	-	-
	11/7/2017	-	11.00	-		836.67	-	-	-	-
MW-17					855.35			-	-	-
	11/12/2017	-	10.85	-		844.50	-	-	-	-
MW-17B					855.37			-	-	-
	11/12/2017	-	17.20	-		838.17	-	-	-	-
MW-18					846.89			-	-	-
	11/12/2017	-	12.00	-		834.89	-	-	-	-
	11/7/2017	12.35	12.37	0.02		834.52	834.53	-	-	-
MW-19					853.94			-	-	-
	11/12/2017	-	11.74	-		842.20	-	-	-	-
	11/7/2017	-	11.80	-		842.14	-	-	-	-
MW-20					852.89			-	-	-
	11/12/2017	13.15	13.40	0.25		839.49	839.67	-	-	-
	11/7/2017	13.12	13.61	0.49		839.28	839.63	-	-	-
MW-21					855.77			-	-	-
	11/12/2017	-	17.43	-		838.34	-	-	-	-
MW-22					854.60			-	-	-
	11/12/2017	-	NM	-		-	-	-	-	-
	11/7/2017	-	9.96	-		844.64	-	-	-	-
MW-23					849.57			-	-	-
	11/12/2017	-	11.02	-		838.55	-	-	-	-
	11/7/2017	-	11.10	-		838.47	-	-	-	-
MW-23B					849.69			-	-	-
	11/12/2017	-	11.42	-		838.27	-	-	-	-
MW-24					817.92			-	-	-
	11/17/2017	-	4.52	-		813.40	-	-	-	-
MW-24B					818.72			-	-	-
	11/17/2017	-	5.56	-		813.16	-	-	-	-
MW-25					826.18			-	-	-
	11/12/2017	-	8.47	-		817.71	-	-	-	-
	11/7/2017	-	8.35	-		817.83	-	-	-	-
MW-25B					823.81			-	-	-
	11/12/2017	-	5.26	-		818.55	-	-	-	-
	11/7/2017	-	5.47	-		818.34	-	-	-	-
MW-26					847.56			-	-	-
	11/12/2017	-	6.65	-		840.91	-	-	-	-
	11/7/2017	-	6.56	-		841.00	-	-	-	-
MW-26B					847.81			-	-	-
	11/12/2017	-	8.95	-		838.86	-	-	-	-
MW-27					854.11			-	-	-
	11/12/2017	-	27.66	-		826.45	-	-	-	-
MW-27B					857.14			-	-	-
	11/12/2017	-	30.72	-		826.42	-	-	-	-
MW-28					844.31			-	-	-

Table 4. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[1,2] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[3] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-28 (cont'd)	11/12/2017	-	24.74	-		819.57	-	-	-	-
	11/7/2017	-	23.78	-		820.53	-	-	-	-
MW-29					852.20			-	-	-
	11/12/2017	-	NM	-		-	-	-	-	-
	11/7/2017	-	10.06	-		842.14	-	-	-	-
MW-30					841.28			-	-	-
	11/12/2017	-	14.52	-		826.76	-	-	-	-
	11/7/2017	-	14.60	-		826.68	-	-	-	-
MW-31					845.04			-	-	-
	11/12/2017	-	20.41	-		824.63	-	-	-	-
	11/7/2017	-	20.81	-		824.23	-	-	-	-
MW-31B					844.94			-	-	-
	11/12/2017	-	21.05	-		823.89	-	-	-	-
MW-32					842.93			-	-	-
	11/12/2017	-	10.45	-		832.48	-	-	-	-
MW-33					849.20			-	-	-
	11/12/2017	-	26.15	-		823.05	-	-	-	-
MW-33T					849.11			-	-	-
	11/12/2017	-	27.47	-		821.64	-	-	-	-
MW-34					816.35			-	-	-
	11/7/2017	-	2.48	-		813.87	-	-	-	-
MW-35					829.40			-	-	-
	11/12/2017	-	7.61	-		821.79	-	-	-	-
	11/7/2017	-	8.94	-		820.46	-	-	-	-
MW-36					858.47			-	-	-
	11/17/2017	-	20.21	-		838.26	-	-	-	-
MW-36B					858.15			-	-	-
	11/17/2017	-	19.92	-		838.23	-	-	-	-
MW-37					813.92			-	-	-
	11/17/2017	-	3.42	-		810.50	-	-	-	-
MW-38					813.28			-	-	-
	11/17/2017	-	1.87	-		811.41	-	-	-	-
	11/7/2017	-	1.88	-		811.40	-	-	-	-
MW-39					819.90			-	-	-
	11/12/2017	-	6.25	-		813.65	-	-	-	-
	11/7/2017	-	4.89	-		815.01	-	-	-	-
MW-40					817.79			-	-	-
	11/12/2017	-	3.53	-		814.26	-	-	-	-
	11/7/2017	-	2.11	-		815.68	-	-	-	-
MW-41					819.68			-	-	-
	11/12/2017	-	4.50	-		815.18	-	-	-	-
	11/7/2017	-	4.39	-		815.29	-	-	-	-
MW-42					820.33			-	-	-
	11/12/2017	-	5.10	-		815.23	-	-	-	-
	11/7/2017	-	5.10	-		815.23	-	-	-	-
MW-43					818.12			-	-	-
	11/10/2017	-	4.31	-		813.81	-	-	-	-
	11/7/2017	-	4.45	-		813.67	-	-	-	-
MW-43B					818.80			-	-	-
	11/10/2017	-	18.33	-		800.47	-	-	-	-
MW-45					852.47			-	-	-
	11/7/2017	-	14.24	-		838.23	-	-	-	-
MW-46					845.47			-	-	-
	11/12/2017	-	9.53	-		835.94	-	-	-	-
	11/10/2017	-	9.57	-		835.90	-	-	-	-
MW-47					842.98			-	-	-

Table 4. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[1,2] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[3] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
MW-47 (cont'd)	11/17/2017	-	17.85	-		825.13	-	-	-	-
	11/10/2017	-	17.85	-		825.13	-	-	-	-
MW-48B					832.34			-	-	-
	11/12/2017	-	8.51	-		823.83	-	-	-	-
	11/10/2017	-	18.74	-		813.60	-	-	-	-
MW-49					846.78			-	-	-
	11/12/2017	-	20.47	-		826.31	-	-	-	-
	11/10/2017	-	20.47	-		826.31	-	-	-	-
MW-50B					850.34			-	-	-
	11/12/2017	-	21.66	-		828.68	-	-	-	-
	11/10/2017	-	21.42	-		828.92	-	-	-	-
RS-01					849.13			-	-	-
	11/12/2017	11.77	12.20	0.43		836.93	837.24	-	-	-
RS-02					849.52			-	-	-
	11/12/2017	11.27	11.37	0.10		838.15	838.22	-	-	-
RS-04					851.47			-	-	-
	11/12/2017	-	9.70	-		841.77	-	-	-	-
RS-05					848.31			-	-	-
	11/12/2017	11.20	11.80	**0.60**		836.51	836.95	-	-	-
RS-06					849.47			-	-	-
	11/12/2017	-	12.20	-		837.27	-	-	-	-
RS-07					855.08			-	-	-
	11/22/2017	-	13.83	-		841.25	-	-	-	-
	11/17/2017	-	14.81	-		840.27	-	-	-	-
	11/12/2017	-	13.87	-		841.21	-	-	-	-
	11/10/2017	-	13.76	-		841.32	-	11/9/2017	11:40	11:45
	11/3/2017	-	13.82	-		841.26	-	11/3/2017	9:10	9:15
RS-08					854.00			-	-	-
	11/22/2017	14.75	14.90	0.15		839.10	839.21	11/22/2017	12:00	12:05
	11/17/2017	14.61	14.89	0.28		839.11	839.31	-	-	-
	11/12/2017	14.42	14.55	0.13		839.45	839.54	-	-	-
	11/10/2017	14.63	14.79	0.16		839.21	839.33	11/9/2017	11:30	11:35
	11/3/2017	14.57	14.71	0.14		839.29	839.39	11/3/2017	9:20	9:25
RS-09					847.60			-	-	-
	11/12/2017	-	10.29	-		837.31	-	-	-	-
RS-10					847.42			-	-	-
	11/12/2017	-	9.65	-		837.77	-	-	-	-
RS-11					847.44			-	-	-
	11/12/2017	-	9.76	-		837.68	-	-	-	-
RS-12					847.74			-	-	-
	11/12/2017	-	10.00	-		837.74	-	-	-	-
RS-13					845.98			-	-	-
	11/12/2017	-	6.45	-		839.53	-	-	-	-
RS-14					845.97			-	-	-
	11/12/2017	7.31	7.33	0.02		838.64	838.65	-	-	-
RS-15					846.41			-	-	-
	11/12/2017	-	8.05	-		838.36	-	-	-	-
RS-16					845.44			-	-	-
	11/12/2017	-	6.35	-		839.09	-	-	-	-
RS-17					844.22			-	-	-
	11/12/2017	5.99	6.00	0.01		838.22	838.23	-	-	-
RS-18					847.89			-	-	-
	11/12/2017	-	10.69	-		837.20	-	-	-	-
RS-20					842.69			-	-	-
	11/12/2017	-	5.82	-		836.87	-	-	-	-
RT-1A					854.06			-	-	-

Table 4. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[1,2] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[3] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-1A (cont'd)	11/22/2017	14.65	14.71	0.06		839.35	839.39	11/22/2017	12:07	12:12
	11/17/2017	14.63	14.68	0.05		839.38	839.42	-	-	-
	11/10/2017	14.73	14.82	0.09		839.24	839.31	11/9/2017	11:15	11:20
	11/3/2017	14.67	14.77	0.10		839.29	839.36	11/3/2017	9:25	9:30
RT-1B					854.15			-	-	-
	11/22/2017	14.61	14.67	0.06		839.48	839.52	11/22/2017	12:12	12:17
	11/17/2017	14.60	14.65	0.05		839.50	839.54	-	-	-
	11/10/2017	14.69	14.78	0.09		839.37	839.44	11/9/2017	11:10	11:15
	11/3/2017	14.62	14.71	0.09		839.44	839.51	11/3/2017	9:30	9:35
RT-1C					854.55			-	-	-
	11/22/2017	15.20	15.26	0.06		839.29	839.33	11/22/2017	12:17	12:22
	11/17/2017	15.19	15.24	0.05		839.31	839.35	-	-	-
	11/10/2017	15.29	15.38	0.09		839.17	839.24	11/9/2017	11:05	11:10
	11/3/2017	15.22	15.31	0.09		839.24	839.31	11/3/2017	9:35	9:40
RT-2A					817.48			-	-	-
	11/22/2017	-	1.12	-		816.36	-	11/22/2017	10:10	10:15
	11/17/2017	-	1.04	-		816.44	-	-	-	-
	11/10/2017	-	0.75	-		816.73	-	-	-	-
	11/3/2017	-	0.97	-		816.51	-	-	-	-
RT-2B					817.61			-	-	-
	11/22/2017	-	1.22			816.39	-	11/22/2017	10:15	10:20
	11/17/2017	-	1.21	-		816.40	-	-	-	-
	11/10/2017	-	0.95	-		816.66	-	-	-	-
	11/3/2017	-	1.11	-		816.50	-	-	-	-
RT-2C					818.06			-	-	-
	11/22/2017	-	1.71	-		816.35	-	11/22/2017	10:20	10:25
	11/17/2017	-	1.65	-		816.41	-	-	-	-
	11/10/2017	-	1.46	-		816.60	-	-	-	-
	11/3/2017	-	1.59	-		816.47	-	-	-	-
RT-2D					818.12			-	-	-
	11/22/2017	-	1.78	-		816.34	-	11/22/2017	10:25	10:30
	11/17/2017	-	1.72	-		816.40	-	-	-	-
	11/10/2017	-	1.52	-		816.60	-	-	-	-
	11/3/2017	-	1.66	-		816.46	-	-	-	-
RT-2E					818.25			-	-	-
	11/22/2017	-	1.89	-		816.36	-	11/22/2017	10:30	10:35
	11/17/2017	-	1.83	-		816.42	-	-	-	-
	11/10/2017	-	1.63	-		816.62	-	-	-	-
	11/3/2017	-	1.76	-		816.49	-	-	-	-
RT-2F					818.57			-	-	-
	11/22/2017	-	2.25	-		816.32	-	11/22/2017	10:35	10:40
	11/17/2017	-	2.18	-		816.39	-	-	-	-
	11/10/2017	-	1.97	-		816.60	-	-	-	-
	11/3/2017	-	2.10	-		816.47	-	-	-	-
RT-2G					820.07			-	-	-
	11/22/2017	-	4.27	-		815.80	-	11/22/2017	10:40	10:45
	11/17/2017	-	4.11	-		815.96	-	-	-	-
	11/10/2017	-	0.25	-		819.82	-	-	-	-
	11/3/2017	-	0.25	-		819.82	-	-	-	-
RT-2I					819.51			-	-	-
	11/22/2017	-	2.58	-		816.93	-	11/22/2017	10:45	10:50
	11/17/2017	-	2.30	-		817.21	-	-	-	-
	11/10/2017	-	0.25	-		819.26	-	-	-	-
	11/3/2017	-	1.56	-		817.95	-	-	-	-
RT-2J					817.63			-	-	-
	11/22/2017	-	0.99	-		816.64	-	11/22/2017	10:50	10:55

Table 4. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[1,2] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[3] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RT-2J (cont'd)	11/17/2017	-	0.80	-		816.83	-	-	-	-
	11/10/2017	-	NM	-		-	-	-	-	-
	11/3/2017	-	-	-		817.63	-	-	-	-
RT-2K					817.40			-	-	-
	11/22/2017	-	NM	-		-	-	-	-	-
	11/17/2017	-	NM	-		-	-	-	-	-
	11/10/2017	-	NM	-		-	-	11/9/2017	9:10	9:15
	11/3/2017	-	NM	-		-	-	11/3/2017	10:40	10:45
RT-2L					819.54			-	-	-
	11/22/2017	-	2.39	-		817.15	-	11/22/2017	10:55	11:00
	11/17/2017	-	2.33	-		817.21	-	-	-	-
	11/10/2017	-	2.31	-		817.23	-	11/9/2017	9:15	9:20
	11/3/2017	-	2.27	-		817.27	-	11/3/2017	10:45	10:50
RW-01					851.92			-	-	-
	11/12/2017	-	13.41	-		838.51	-	-	-	-
RW-02					852.69			-	-	-
	11/12/2017	22.80	23.15	0.35		829.54	829.79	-	-	-
RW-03					852.34			-	-	-
	11/12/2017	23.46	23.47	0.01		828.87	828.88	-	-	-
RW-04					853.93			-	-	-
	11/22/2017	29.59	29.86	0.27		824.07	824.27	11/22/2017	11:53	11:58
	11/17/2017	29.67	29.90	0.23		824.03	824.20	-	-	-
	11/10/2017	29.90	30.17	0.27		823.76	823.96	11/9/2017	10:50	10:55
	11/3/2017	30.17	30.56	0.39		823.37	823.66	11/3/2017	9:50	9:55
RW-05					853.53			-	-	-
	11/22/2017	32.88	34.03	**1.15**		819.50	820.34	11/22/2017	11:43	11:48
	11/17/2017	33.00	33.99	**0.99**		819.54	820.27	-	-	-
	11/10/2017	33.31	34.13	**0.82**		819.40	820.00	11/9/2017	10:40	10:45
	11/3/2017	33.47	34.04	**0.57**		819.49	819.91	11/3/2017	9:55	10:00
RW-06					846.21			-	-	-
	11/22/2017	-	26.43	-		819.78	-	-	-	-
	11/17/2017	-	26.51	-		819.70	-	-	-	-
	11/10/2017	-	27.21	-		819.00	-	11/9/2017	10:30	10:35
	11/3/2017	-	27.22	-		818.99	-	11/3/2017	10:10	10:15
RW-07					843.19			-	-	-
	11/22/2017	22.70	22.73	0.03		820.46	820.48	11/22/2017	11:19	11:24
	11/17/2017	22.87	22.90	0.03		820.29	820.31	-	-	-
	11/10/2017	23.32	23.35	0.03		819.84	819.86	11/9/2017	9:35	9:40
	11/3/2017	23.39	23.52	0.13		819.67	819.77	11/3/2017	10:15	10:20
RW-08					835.48			-	-	-
	11/22/2017	-	15.45	-		820.03	-	-	-	-
	11/17/2017	-	15.70	-		819.78	-	-	-	-
	11/10/2017	-	16.07	-		819.41	-	-	-	-
	11/3/2017	-	16.13	-		819.35	-	-	-	-
RW-09					835.12			-	-	-
	11/22/2017	-	13.64	-		821.48	-	-	-	-
	11/17/2017	-	13.78	-		821.34	-	-	-	-
	11/10/2017	-	13.40	-		821.72	-	11/9/2017	9:30	9:35
	11/3/2017	-	13.28	-		821.84	-	11/3/2017	10:25	10:30
RW-10					848.53			-	-	-
	11/12/2017	13.00	13.05	0.05		835.48	835.52	-	-	-
RW-11					852.97			-	-	-
	11/22/2017	-	14.54	-		838.43	-	-	-	-
	11/17/2017	-	14.02	-		838.95	-	-	-	-
	11/10/2017	-	14.15	-		838.82	-	-	-	-
	11/3/2017	-	14.35	-		838.62	-	-	-	-

Table 4. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[1,2] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[3] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
RW-12					854.49			-	-	-
	11/22/2017	-	15.91	-		838.58	-	-	-	-
	11/17/2017	-	15.87	-		838.62	-	-	-	-
	11/10/2017	-	15.74	-		838.75	-	-	-	-
	11/3/2017	-	14.17	-		840.32	-	-	-	-
RW-13					847.97			-	-	-
	11/12/2017	-	NM	-		-	-	-	-	-
RW-14					827.54			-	-	-
	11/22/2017	-	14.24	-		813.30	-	-	-	-
	11/17/2017	-	14.26	-		813.28	-	-	-	-
	11/10/2017	-	7.00	-		820.54	-	-	-	-
	11/3/2017	-	5.10	-		822.44	-	-	-	-
RW-15					851.64			-	-	-
	11/12/2017	14.90	15.30	0.40		836.34	836.63	-	-	-
SW-01					812.82			-	-	-
	11/17/2017	-	(0.93)	-		813.75	-	-	-	-
	11/7/2017	-	(0.90)	-		813.72	-	-	-	-
SW-02					808.65			-	-	-
	11/17/2017	-	(1.61)	-		810.26	-	-	-	-
SW-03					815.09			-	-	-
	11/12/2017	-	(1.73)	-		816.82	-	-	-	-
	11/7/2017	-	(1.60)	-		816.69	-	-	-	-
SW-08					802.04			-	-	-
	11/17/2017	-	(1.15)	-		803.19	-	-	-	-
SW-10					778.09			-	-	-
	11/17/2017	-	(0.64)	-		778.73	-	-	-	-
SW-13					-			-	-	-
	11/7/2017	-	(0.90)	-		0.90	-	-	-	-
TW-04R					852.64			-	-	-
	11/12/2017	-	4.71	-		847.93	-	-	-	-
TW-05R					849.93			-	-	-
	11/12/2017	-	5.76	-		844.17	-	-	-	-
TW-14R					853.37			-	-	-
	11/12/2017	-	NM	-		-	-	-	-	-
TW-15R					850.62			-	-	-
	11/12/2017	-	5.70	-		844.92	-	-	-	-
TW-21					849.70			-	-	-
	11/12/2017	-	4.25	-		845.45	-	-	-	-
TW-28					851.42			-	-	-
	11/12/2017	22.97	23.10	0.13		828.32	828.42	-	-	-
TW-30					851.81			-	-	-
	11/12/2017	-	21.90	-		829.91	-	-	-	-
TW-34					854.79			-	-	-
	11/12/2017	-	22.25	-		832.54	-	-	-	-
TW-35					854.10			-	-	-
	11/12/2017	-	22.74	-		831.36	-	-	-	-
TW-40					853.35			-	-	-
	11/12/2017	-	29.08	-		824.27	-	-	-	-
TW-41					849.38			-	-	-
	11/12/2017	-	27.81	-		821.57	-	-	-	-
TW-42					846.84			-	-	-
	11/12/2017	26.15	26.97	**0.82**		819.87	820.47	-	-	-
TW-45					848.31			-	-	-
	11/12/2017	27.73	28.10	0.37		820.21	820.48	-	-	-
TW-55					845.93			-	-	-
	11/12/2017	-	7.51	-		838.42	-	-	-	-

Table 4. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[1,2] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[3] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
TW-55 (cont'd)	11/7/2017	-	8.12	-		837.81	-	-	-	-
TW-59					834.78			-	-	-
	11/12/2017	-	20.41	-		814.37	-	-	-	-
	11/7/2017	-	20.00	-		814.78	-	-	-	-
TW-60					828.03			-	-	-
	11/12/2017	-	11.65	-		816.38	-	-	-	-
	11/7/2017	-	10.20	-		817.83	-	-	-	-
TW-64					845.88			-	-	-
	11/12/2017	-	18.05	-		827.83	-	-	-	-
	11/7/2017	-	18.20	-		827.68	-	-	-	-
TW-65					845.62			-	-	-
	11/12/2017	-	22.25	-		823.37	-	-	-	-
TW-66					820.31			-	-	-
	11/12/2017	-	2.65	-		817.66	-	-	-	-
	11/7/2017	-	2.15	-		818.16	-	-	-	-
TW-67					852.71			-	-	-
	11/12/2017	-	9.20	-		843.51	-	-	-	-
	11/7/2017	-	13.91	-		838.80	-	-	-	-
TW-68					846.45			-	-	-
	11/12/2017	-	23.85	-		822.60	-	-	-	-
TW-69					840.27			-	-	-
	11/12/2017	-	14.95	-		825.32	-	-	-	-
TW-70					841.95			-	-	-
	11/12/2017	-	19.58	-		822.37	-	-	-	-
TW-73					850.53			-	-	-
	11/12/2017	-	9.00	-		841.53	-	-	-	-
	11/7/2017	-	8.55	-		841.98	-	-	-	-
TW-76					852.44			-	-	-
	11/12/2017	-	15.10	-		837.34	-	-	-	-
TW-81					849.43			-	-	-
	11/12/2017	-	4.05	-		845.38	-	-	-	-
TW-82					849.64			-	-	-
	11/12/2017	-	4.05	-		845.59	-	-	-	-
TW-83					850.44			-	-	-
	11/12/2017	-	4.80	-		845.64	-	-	-	-
TW-84					851.22			-	-	-
	11/12/2017	-	5.25	-		845.97	-	-	-	-
TW-85					843.49			-	-	-
	11/12/2017	-	10.10	-		833.39	-	-	-	-
TW-86					853.10			-	-	-
	11/12/2017	-	5.61	-		847.49	-	-	-	-
TW-87					852.25			-	-	-
	11/12/2017	-	6.21	-		846.04	-	-	-	-
TW-90					845.43			-	-	-
	11/12/2017	-	11.00	-		834.43	-	-	-	-
TW-94					840.58			-	-	-
	11/12/2017	-	NM	-		-	-	-	-	-

Table 4. Groundwater Elevation and Product Thickness Data

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation[1,2] (ft amsl)	Groundwater Elevation (ft amsl)	Corrected[3] Groundwater Elevation (ft amsl)	Date of Product Evacuation	Start Time	Finish Time
TW-96					840.40			-	-	-
	11/12/2017	-	6.80	-		833.60	-	-	-	-
	11/7/2017	-	8.58	-		831.82	-	-	-	-

Notes:

1. Elevation of zero mark (ft amsl) for surface water staff gauges

2. "RS-" and "RT-" features were trimmed to less than 12 inches above ground surface on 3/14/2017. Only the resurveyed top of casing elevation after trimming is displayed. Groundwater elevation calculations are based on the true top of casing elevation at the time of gauging.

3. Calculated based on an oil:water density ratio of 0.73

Bold indicates the gauged product thickness was greater than 0.5 feet.

amsl = above mean sea level

BTOC = below top of casing

DRY = well contained no measurable water or product

ft = feet

ID = identification

NM = not measured

The following features are no longer reliable for calculating groundwater elevation:

- RS-19 was damaged on or about January 20, 2017.
- RT-2H was covered over on or about January 17, 2017, due to construction efforts in the vicinity.
- TW-46 was damaged on or about December 8, 2016.

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-01	MW-01-072715	7/27/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.02 U
	MW-01-012716	1/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-01-062817	6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-01-090717	9/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-01B	MW-01B-080415	8/4/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.02 U
	MW-01B-012716	1/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	MW-01B-120116	12/1/2016	µg/L	1 U	1 U	**1.4**	**5.6**	1 U	1 U	**1.3**	--
	MW-01B-062817	6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-01B-062817-FD	6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-01B-090717	9/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-02	MW-02-072715	7/27/2015	µg/L	**4,320**	625 U	**9,670**	**2,460**	5 U	**171**	**74.7**	0.02 U
	MW-02-012616	1/26/2016	µg/L	**9,500**	**1,160**	**25,000**	**6,310**	50 U[b]	**285**	**139**	0.019 U
	--	11/28/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-02-062917	6/29/2017	µg/L	**8,040**	**833**	**27,100**	**9,890**	250 U[b]	250 U[b]	1,250 U[b]	--
	MW-02-090817	9/8/2017	µg/L	**2,340**	**181**	**7,120**	**8,510**	50 U[b]	50 U[b]	**389**	--
	MW-02-100417	10/4/2017	µg/L	**3,510**	**306**	**11,900**	**11,200**	50 U[b]	**53.9**	250 U[b]	--
	MW-02-110817	11/8/2017	µg/L	**850**	100 U	**1,370**	**3,520**	100 U[b]	100 U[b]	500 U[b]	--
MW-02B	MW-02B-080415	8/4/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.02 U
	MW-02B-D-080415	8/4/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.019 U
	--	1/19/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-02B-030116	3/1/2016	µg/L	1 U	1 U	**4.8**	**4.6**	1 U	1 U	1 U	0.019 U
	MW-02B-D-030116	3/1/2016	µg/L	1 U	1 U	**4.8**	**5.3**	1 U	1 U	1 U	0.02 U
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-02B-033117	3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-02B-062917	6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-02B-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-03	MW-03-072715	7/27/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.02 U
	MW-03-012516	1/25/2016	µg/L	**108**	**20.1**	**958**	**598**	1 U	1 U	**11.1**	0.02 U
	MW-03-120616	12/6/2016	µg/L	**61.1**	**25.1**	**229**	**330**	2 U	2 U	**3.6**	--
	MW-03-062917	6/29/2017	µg/L	**10.9**	1 U	**24.6**	**6.98**	1 U	**2.34**	5 U	--
	MW-03-110817	11/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-04	MW-04-072815	7/28/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.019 U
	MW-04-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-04-120616	12/6/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-04-062917	6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-04-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-04-090817-DUP	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-05	MW-05-072815	7/28/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.019 U
	MW-05-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-05-050317	5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-062917	6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-071717	7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-080117	8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-100417	10/4/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-05-110817	11/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-06	MW-06-072815	7/28/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.02 U
	MW-06-012116	1/21/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-06-120216	12/2/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-06-062917	6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-06-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-07	--	7/27/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-07-012116	1/21/2016	µg/L	**1,060**	**389**	**5,210**	**2,620**	40 U[b]	40 U	40 U[b]	0.02 U
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-07-062917	6/29/2017	µg/L	**4,290**	**629**	**17,700**	**4,990**	250 U[b]	250 U[b]	1,250 U[b]	--
MW-08	MW-08-072815	7/28/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.02 U
	MW-08-012616	1/26/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-08-120616	12/6/2016	µg/L	1 U	1 U	**14.4**	**7.1**	1 U	1 U	1 U	--
	MW-08-062917	6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-08-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-09	--	7/27/2015	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	1/19/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	11/28/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-09-062917	6/29/2017	µg/L	**3,860**	**517**	**13,000**	**8,680**	200 U[b]	200 U[b]	1,000 U[b]	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-10	MW-10-072815	7/28/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.019 U
	MW-10-012616	1/26/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	MW-10-120616	12/6/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-10-050317	5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-050317-FD	5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-062917	6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-071717	7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-080117	8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-100417	10/4/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-10-110817	11/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-11	--	7/27/2015	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-11-012616	1/26/2016	µg/L	**10,600**	**948**	**24,400**	**4,700**	10 U[b]	**432**	**123**	0.019 U
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-11-062817	6/28/2017	µg/L	**10,900**	**2,140**	**29,600**	**11,700**	100 U[b]	**147**	500 U[b]	--
MW-12	MW-12-072815	7/28/2015	µg/L	**51.3**	5 U	**22.9**	**39.2**	5 U	5 U	5 U	0.02 U
	--	1/19/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	11/28/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	3/13/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	3/20/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	3/31/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	4/6/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-12-062817	6/28/2017	µg/L	**1,190**	**467**	**7,910**	**5,100**	50 U[b]	50 U[b]	250 U[b]	--
	MW-12-090817	9/8/2017	µg/L	**648**	**436**	**3,470**	**4,440**	100 U[b]	100 U[b]	500 U[b]	--
MW-12B	MW-12B-012616	1/26/2016	µg/L	**228**	**31.4**	**193**	**532**	1 U	**5.4**	**14.6**	0.019 U
	MW-12B-113016	11/30/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-12B-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-12B-031417-FD	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-12B-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-12B-033117	3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-12B-040617	4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-12B-062817	6/28/2017	µg/L	**30.1**	1 U	**7.28**	**14.3**	1 U	**11.8**	5 U	--
	MW-12B-090817	9/8/2017	µg/L	**126**	**3.81**	**16.8**	**256**	1 U	1 U	**12**	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-13	--	7/27/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-13-012816	1/28/2016	µg/L	**2**	1 U	**12.5**	**6.9**	1 U	1 U	1 U	0.02 U
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-13-062917	6/29/2017	µg/L	**1.18**	1 U	**3.39**	3 U	1 U	1 U	5 U	--
MW-13B	MW-13B-012816	1/28/2016	µg/L	**367**	1 U	**5.6**	**59.5**	1 U	**119**	1 U	0.02 U
	MW-13B-D-012816	1/28/2016	µg/L	**405**	1 U	**6.1**	**59.1**	1 U	**108**	1 U	0.02 U
	MW-13B-113016	11/30/2016	µg/L	**550**	**5.1**	**21.2**	**140**	5 U	**158**	**7.9**	--
	MW-13B-062817	6/28/2017	µg/L	**308**	**3.09**	**10.3**	**103**	1 U	**121**	**5.13**	--
	MW-13B-110817	11/8/2017	µg/L	**325**	**3.42**	**19**	**91.6**	1 U	**173**	**5.55**	--
	MW-13B-D-110817	11/8/2017	µg/L	**356**	**3.85**	**20.8**	**100**	1 U	**168**	**6.61**	--
MW-14	MW-14-072815	7/28/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.02 U
	MW-14-012816	1/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	MW-14-113016	11/30/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-14-062817	6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-14-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-14B	MW-14B-052516	5/25/2016	µg/L	**5**	1 U	1 U	**4.4**	1 U	**17.2**	1 U	0.02 U
	MW-14B-052516-FD	5/25/2016	µg/L	**4.6**	1 U	1 U	**4.1**	1 U	**23.6**	1 U	0.02 U
	MW-14B-113016	11/30/2016	µg/L	**10.5**	1 U	**1.1**	**5.5**	1 U	**19.7**	1 U	--
	MW-14B-062817	6/28/2017	µg/L	**38.1**	**1.34**	**2.56**	**19.1**	1 U	**36.2**	5 U	--
	MW-14B-090817	9/8/2017	µg/L	**6.81**	1 U	1 U	**6.67**	1 U	**18.7**	5 U	--
MW-15	MW-15-080415	8/4/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.019 U
	MW-15-012816	1/28/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-15-120716	12/7/2016	µg/L	**3,680**	**139**	**422**	**2,280**	25 U	**188**	**43.8**	--
	MW-15-031417	3/14/2017	µg/L	**1,960**	**72**	**324**	**1,320**	25 U	**161**	125 U	--
	MW-15-031417-FD	3/14/2017	µg/L	**1,820**	**61**	**286**	**1,120**	25 U	**153**	125 U	--
	MW-15-032017	3/20/2017	µg/L	**3,390**	**103**	**505**	**2,460**	50 U	**194**	250 U	--
	MW-15-033117	3/31/2017	µg/L	**2,850**	**65.4**	**444**	**1,860**	20 U	**221**	100 U	--
	MW-15-040617	4/6/2017	µg/L	**1,790**	**60.6**	**465**	**886**	25 U	**181**	125 U	--
	MW-15-062817	6/28/2017	µg/L	**73**	25 U	**29**	**110**	25 U	**91.8**	125 U	--
	MW-15-090817	9/8/2017	µg/L	**454**	**24**	**567**	**338**	5 U	**193**	25 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-15B	MW-15B-080415	8/4/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.019 U
	MW-15B-012816	1/28/2016	µg/L	**4.8**	1 U	**2**	**3.9**	1 U	1 U	1 U	0.02 U
	MW-15B-113016	11/30/2016	µg/L	**337**	**34**	**565**	**194**	5 U	**26.7**	**5**	--
	MW-15B-031417	3/14/2017	µg/L	**2,160**	**248**	**4,580**	**1,500**	100 U	**118**	500 U	--
	MW-15B-032017	3/20/2017	µg/L	**615**	**88.6**	**1,270**	**555**	25 U	**67.5**	125 U	--
	MW-15B-033117	3/31/2017	µg/L	**1,630**	**205**	**3,240**	**1,180**	50 U	**115**	250 U	--
	MW-15B-040617	4/6/2017	µg/L	**1,020**	**132**	**2,020**	**789**	25 U	**84.7**	125 U	--
	MW-15B-040617-FD	4/6/2017	µg/L	**973**	**124**	**1,910**	**742**	25 U	**82.9**	125 U	--
	MW-15B-062817	6/28/2017	µg/L	**1,510**	**145**	**3,520**	**1,280**	100 U[b]	100 U[b]	500 U[b]	--
	MW-15B-090817	9/8/2017	µg/L	**1,820**	**164**	**3,560**	**1,210**	50 U[b]	**133**	250 U[b]	--
MW-16	--	7/27/2015	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	1/19/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	11/28/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-16-062917	6/29/2017	µg/L	**12,900**	**1,770**	**36,400**	**12,500**	500 U[b]	**1,740**	2,500 U[b]	--
MW-17	--	7/27/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	1/19/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/13/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	4/6/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	6/26/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-17-090817	9/8/2017	µg/L	**11,400**	**1,240**	**23,900**	**8,460**	20 U[b]	**1,330**	**201**	--
MW-17B	MW-17B-030116	3/1/2016	µg/L	**6,480**	**488**	**11,900**	**2,870**	**5**	**742**	**104**	0.019 U
	MW-17B-120116	12/1/2016	µg/L	**9,370**	**761**	**16,900**	**4,500**	100 U	**954**	**112**	--
	MW-17B-031317	3/13/2017	µg/L	**7,350**	**770**	**14,100**	**4,510**	200 U	**944**	1,000 U	--
	MW-17B-032017	3/20/2017	µg/L	**10,700**	**1,360**	**21,400**	**7,910**	**323**	**1,210**	1,000 U	--
	MW-17B-033117	3/31/2017	µg/L	**9,190**	**900**	**17,500**	**5,910**	100 U	**1,200**	500 U	
	MW-17B-033117FD	3/31/2017	µg/L	**9,190**	**956**	**18,200**	**6,330**	100 U	**1,210**	500 U	--
	MW-17B-040617	4/6/2017	µg/L	**7,780**	**833**	**14,900**	**5,330**	200 U	**991**	1,000 U	--
	MW-17B-062817	6/28/2017	µg/L	**11,200**	**704**	**21,600**	**5,650**	200 U[b]	**1,150**	1,000 U[b]	--
MW-18	--	7/27/2015	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	1/19/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	11/28/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	6/26/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-19	--	7/27/2015	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	MW-19-012116	1/21/2016	µg/L	**22.8**	**18.5**	**256**	**437**	1 U	1 U	**10.7**	0.02 U
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/13/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/20/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
		3/31/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-19-040617	4/6/2017	µg/L	**9,810**	**1,030**	**25,000**	**10,300**	250 U	250 U	1,250 U	--
	MW-19-062917	6/29/2017	µg/L	**9,410**	**683**	**27,200**	**9,580**	200 U[b]	**320**	1,000 U[b]	--
MW-20	--	7/27/2015	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	1/19/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	11/28/2016	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	3/13/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	3/20/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	3/31/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	4/6/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
	--	6/26/2017	--	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP	NS-FP
MW-21	MW-21-072715	7/27/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.02 U
	MW-21-012116	1/21/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-21-D-012116	1/21/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	MW-21-112916	11/29/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-21-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-032117	3/21/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-033117	3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-040617	4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-062817	6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-062817-FD	6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-21-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-22	--	7/27/2015	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-22-012116	1/21/2016	µg/L	**19.8**	**3.4**	**47.2**	**37.4**	1 U	1 U	1 U	0.02 U
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-22-062917	6/29/2017	µg/L	**234**	10 U	**125**	30 U	10 U[b]	10 U	50 U[b]	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-23	MW-23-072715	7/27/2015	µg/L	5 U	5 U	**7.5**	10 U	5 U	5 U	5 U	0.02 U
	MW-23D-072715	7/27/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.02 U
	MW-23-012016	1/20/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	MW-23-120216	12/2/2016	µg/L	**450**	5 U	**14.6**	**336**	5 U	**46.4**	**5.9**	--
	MW-23-031317	3/13/2017	µg/L	**709**	5 U	**23.1**	**548**	5 U	**127**	25 U	--
	MW-23-032017	3/20/2017	µg/L	**642**	10 U	**12.7**	**579**	10 U	**108**	50 U	--
	MW-23-032017-FD	3/20/2017	µg/L	**620**	10 U	**12.0**	**548**	10 U	**110**	50 U	--
	MW-23-033117	3/31/2017	µg/L	**685**	10 U	**16.5**	**624**	10 U	**130**	50 U	--
	MW-23-040617	4/6/2017	µg/L	**432**	1 U	**6.6**	**254**	1 U	**76.5**	5 U	--
	MW-23-062817	6/28/2017	µg/L	**131**	10 U	10 U	**117**	10 U[b]	**19.1**	5 U	--
	MW-23-071717	7/17/2017	µg/L	**1.2**	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-23-080117	8/1/2017	µg/L	**132**	1 U	**6.2**	**252**	1 U	**48.1**	5 U	--
	MW-23-090717	9/7/2017	µg/L	**1,110**	**9.25**	**43.1**	**999**	5 U	**141**	25 U	--
	MW-23-100417	10/4/2017	µg/L	**703**	10 U	**17.5**	**515**	10 U[b]	**90.1**	50 U[b]	--
	MW-23-100417-DUP	10/4/2017	µg/L	**543**	**2.65**	**11.5**	**424**	1 U	**69.2**	5 U	--
	MW-23-110817	11/8/2017	µg/L	**788**	10 U	**21.5**	**580**	10 U[b]	**118**	50 U[b]	--
MW-23B	MW-23B-080515	8/5/2015	µg/L	5 U	5 U	**7.0**	10 U	5 U	5 U	5 U	0.02 U
	MW-23B-012016	1/20/2016	µg/L	1 U	1 U	**3.9**	**7.1**	1 U	1 U	1 U	0.02 U
	MW-23B-120216	12/2/2016	µg/L	1 U	**1.4**	**3.5**	**11.0**	1 U	1 U	**1.3**	--
	MW-23B-031317	3/13/2017	µg/L	1 U	**1.11**	**2.63**	**8.86**	1 U	1 U	5 U	--
	MW-23B-032017	3/20/2017	µg/L	1 U	**1.55**	**2.98**	**11.7**	1 U	1 U	5 U	--
	MW-23B-033117	3/31/2017	µg/L	1 U	**1.24**	**2.41**	**8.86**	1 U	1 U	5 U	--
	MW-23B-040617	4/6/2017	µg/L	1 U	**1.21**	**2.41**	**9.23**	1 U	1 U	5 U	--
	MW-23B-062817	6/28/2017	µg/L	1 U	1 U	**1.73**	**6.20**	1 U	1 U	5 U	--
	MW-23B-090717	9/7/2017	µg/L	1 U	1 U	**1.65**	**5.40**	1 U	1 U	5 U	--
MW-24	MW-24-080515	8/5/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.02 U
	MW-24-012616	1/26/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	MW-24-120716	12/7/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-24-062817	6/28/2017	µg/L	**28.8**	**3.96**	**1.7**	**22.2**	1 U	1 U	5 U	--
	MW-24-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-24B	MW-24B-080515	8/5/2015	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	0.02 U
	MW-24B-012616	1/26/2016	µg/L	1 U	1 U	**3.3**	**6.8**	1 U	1 U	1 U	0.019 U
	MW-24B-120716	12/7/2016	µg/L	1 U	1 U	**2.9**	**1.6**	1 U	1 U	1 U	--
	MW-24B-062817	6/28/2017	µg/L	**28.9**	**3.89**	**1.77**	**20.7**	1 U	1 U	5 U	--
	MW-24B-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-25	MW-25-012716	1/27/2016	µg/L	**101**	1 U	1 U	**115**	1 U	1 U	**1.8**	0.02 U
	MW-25-012716	12/1/2016	µg/L	**675**	**30.2**	**15.3**	**619**	5 U	**5.9**	**29.7**	--
	MW-25-031417	3/14/2017	µg/L	**627**	**28.6**	**10.1**	**668**	10 U	10 U	50 U	--
	MW-25-032017	3/20/2017	µg/L	**604**	**20.4**	20 U	**680**	20 U	20 U	100 U	--
	MW-25-033117	3/31/2017	µg/L	**673**	**30.1**	**12**	**736**	10 U	10 U	50 U	--
	MW-25-033117FD	3/31/2017	µg/L	**790**	**35.4**	**12.5**	**861**	10 U	10 U	50 U	--
	MW-25-040617	4/6/2017	µg/L	**558**	**24.3**	10 U	**682**	10 U	10 U	50 U	--
	MW-25-050317	5/3/2017	µg/L	**519**	**49.3**	**10.1**	**614**	1 U	1 U	**43.2**	--
	MW-25-062817	6/28/2017	µg/L	**431**	**34.8**	10 U	**520**	10 U[b]	10 U	50 U[b]	--
	MW-25-071717	7/17/2017	µg/L	**230**	**13.4**	10 U	**264**	10 U[b]	10 U	50 U[b]	--
	MW-25-080117	8/1/2017	µg/L	**234**	**14.4**	10 U	**277**	10 U[b]	10 U	50 U[b]	--
	MW-25-090817	9/8/2017	µg/L	**200**	**12.2**	**1.27**	**214**	1 U	1 U	**10.6**	--
	MW-25-100417	10/4/2017	µg/L	**173**	**16.2**	**1.73**	**276**	1 U	**1.1**	**6.77**	--
	MW-25-110817	11/8/2017	µg/L	**82.9**	**7.21**	1 U	**143**	1 U	1 U	**7.74**	--
MW-25B	MW-25B-012716	1/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-25B-120116	12/1/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-25B-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-25B-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-25B-033117	3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-25B-040617	4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-25B-062817	6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-25B-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-25B-090817-DUP	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-26	MW-26-012016	1/20/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	MW-26-120116	12/1/2016	µg/L	1 U	1 U	**2.3**	1 U	1 U	1 U	1 U	--
	MW-26-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-033117	3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-040617	4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-040617-FD	4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-050317	5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-062817	6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-071717	7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-080117	8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-090717	9/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-100417	10/4/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26-110817	11/8/2017	µg/L	1 U	1 U	**1.17**	3 U	1 U	1 U	5 U	--
MW-26B	MW-26B-012016	1/20/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-26B-120116	12/1/2016	µg/L	1 U	1 U	1 U	**1.3**	1 U	1 U	1 U	--
	MW-26B-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26B-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26B-033117	3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26B-040617	4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26B-062817	6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26B-090717	9/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-26B-090717-DUP	9/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-27	MW-27-012716	1/27/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.019 U
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-27-062817	6/28/2017	µg/L	**2.69**	**4.06**	**3.88**	**35.9**	1 U	1 U	5 U	--
	MW-27-090817	9/8/2017	µg/L	**4.96**	**5.75**	**2.13**	**14.8**	1 U	1 U	5 U	--
MW-27B	MW-27B-051216	5/12/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.02 U
	MW-27B-120216	12/2/2016	µg/L	1 U	**5.3**	**9.1**	**45.7**	1 U	1 U	**8.9**	--
	MW-27B-062817	6/28/2017	µg/L	1 U	**4.04**	**4.04**	**32.7**	1 U	1 U	**6.09**	--
	MW-27B-090717	9/7/2017	µg/L	1 U	**3.73**	**6.35**	**30.3**	1 U	1 U	**7.54**	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-28	MW-28-012716	1/27/2016	µg/L	**542**	**430**	**3,850**	**3,370**	1 U	**4.8**	**96.3**	0.02 U
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-28-031517	3/15/2017	µg/L	**1,120**	**68.9**	**3,350**	**1,370**	50 U	50 U	250 U	--
	--	3/20/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/31/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	4/6/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-28-050317	5/3/2017	µg/L	**65.9**	**14.5**	**263**	**1,010**	1 U	**2.94**	**9.33**	--
	MW-28-062817	6/28/2017	µg/L	**199**	**55**	**108**	**546**	1 U	1 U	**10.1**	--
	MW-28-071717	7/17/2017	µg/L	**219**	**64.2**	**85.8**	**422**	1 U	1 U	**14.7**	--
	MW-28-080217	8/2/2017	µg/L	**219**	**48.7**	**52.7**	**187**	1 U	**3.46**	**11.9**	--
	MW-28-090817	9/8/2017	µg/L	**130**	**16.2**	**175**	**388**	1 U	**4.77**	**13.6**	--
MW-29	MW-29-012116	1/21/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	MW-29-112916	11/29/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-29-031317	3/13/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-033117	3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-040617	4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-050317	5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-062817	6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-071717	7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-080117	8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-090717	9/7/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-100417	10/4/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-29-110817	11/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-30	MW-30-012516	1/25/2016	µg/L	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.02 U
	--	11/28/2016	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-30-050417	5/4/2017	µg/L	**104**	**3.98**	**341**	**161**	1 U	1 U	5 U	--
	MW-30-062917	6/29/2017	µg/L	**646**	25 U	**1,630**	**736**	25 U[b]	25 U	125 U[b]	--
	MW-30-071717	7/17/2017	µg/L	**922**	25 U	**2,050**	**1,320**	25 U[b]	25 U	125 U[b]	--
	MW-30-080217	8/2/2017	µg/L	**1,240**	**25.9**	**1,020**	**2,230**	25 U[b]	25 U	125 U[b]	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-31	MW-31-051016	5/10/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.02 U
	MW-31-112916	11/29/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-31-050317	5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-062817	6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-071717	7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-080117	8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-D-080117	8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-100417	10/4/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-31-110817	11/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-31B	MW-31B-051116	5/11/2016	µg/L	1 U	1 U	**2.7**	1 U	1 U	1 U	1 U	0.02 U
MW-32	MW-32-051016	5/10/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.02 U
	MW-32-120616	12/6/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-32-062917	6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-32-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-33	MW-33-051016	5/10/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.02 U
MW-33T	MW-33T-051016	5/10/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.02 U
MW-34	MW-34-031517	3/15/2017	--	**978**	**33.0**	**143**	**218**	10 U	**157**	50 U	--
	MW-34-032017	3/20/2017	µg/L	**801**	10.0 U	**113**	**305**	10 U	**149**	50 U	--
	MW-34-033117	3/31/2017	µg/L	**728**	10.0 U	**81.4**	**224**	10 U	**152**	50 U	--
	MW-34-040617	4/6/2017	µg/L	**860**	**1.7**	**58.6**	**181**	1 U	**123**	5 U	--
	MW-34-050317	5/3/2017	µg/L	**287**	**2.62**	**27.2**	**130**	1 U	**124**	5 U	--
	MW-34-062817	6/28/2017	µg/L	**167**	**4.59**	**9.3**	**39.2**	1 U	**68.3**	5 U	--
	MW-34-071717	7/17/2017	µg/L	**137**	**5.83**	**19.8**	**69.5**	1 U	**73.8**	5 U	--
	MW-34-080117	8/1/2017	µg/L	**517**	10 U	**31.7**	**110**	10 U[b]	**98.3**	50 U[b]	--
	MW-31-090817	9/8/2017	µg/L	**1,430**	**6.01**	**98.0**	**264**	1 U	**191**	**7.33**	--
	MW-34-100417	10/4/2017	µg/L	**919**	10 U	**36.8**	**157**	10 U[b]	**151**	50 U[b]	--
	MW-34-100417-DUP	10/4/2017	µg/L	**846**	**1.49**	**40.8**	**186**	1 U	**148**	5 U	--
	MW-34-110817	11/8/2017	µg/L	**338**	10 U	**15.3**	**140**	10 U[b]	**266**	50 U[b]	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-35	MW-35-051016	5/10/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.02 U
	MW-35-120116	12/1/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-35-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-033117	3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-040617	4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-050317	5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-062817	6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-071717	7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-080117	8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-100417	10/4/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-35-110817	11/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-36	MW-36-051116	5/11/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.02 U
	MW-36-112916	11/29/2016	µg/L	**1.3**	1 U	**6.5**	**1.1**	1 U	1 U	1 U	--
	MW-36-D-112916	11/29/2016	µg/L	1 U	1 U	**5.4**	1 U	1 U	1 U	1 U	--
	MW-36-062917	6/29/2017	µg/L	**2.11**	1 U	**2.28**	3 U	1 U	1 U	5 U	--
	MW-36-090817	9/8/2017	µg/L	**4.75**	1 U	**6.16**	**4.62**	1 U	1 U	5 U	--
MW-36B	MW-36B-051116	5/11/2016	µg/L	1 U	1 U	**7.2**	1 U	1 U	1 U	1 U	0.02 U
	MW-36B-112916	11/29/2016	µg/L	1 U	1 U	**1.6**	1 U	1 U	1 U	1 U	--
	MW-36B-062917	6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-36B-062917-FD	6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-36B-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-37	MW-37-113016	11/30/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-37-062817	6/28/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**1.44**	5 U	--
	MW-37-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	**1.5**	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-38	MW-38-113016	11/30/2016	µg/L	1 U	1 U	1 U	1 U	1 U	5.5	1 U	--
	MW-38-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	9.14	5 U	--
	MW-38-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	7.55	5 U	--
	MW-38-033117	3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	10.2	5 U	--
	MW-38-040617	4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	8.06	5 U	--
	MW-38-050317	5/3/2017	µg/L	1 U	1 U	1 U	3 U	1 U	9.08	5 U	--
	MW-38-062817	6/28/2017	µg/L	9.71	1.17	1 U	6.63	1 U	1 U	5 U	--
	MW-38-071717	7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	8.59	5 U	--
	MW-38-071717-FD	7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	9.78	5 U	--
	MW-38-080117	8/1/2017	µg/L	1 U	1 U	1 U	3 U	1 U	7.25	5 U	--
	MW-38-090817	9/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	12.9	5 U	--
	MW-38-100417	10/4/2017	µg/L	1.75	1 U	1 U	3 U	1 U	11.2	5 U	--
	MW-38-110817	11/8/2017	µg/L	4.48	1 U	1 U	12.4	1 U	29.2	5 U	--
MW-39	MW-39-120716	12/7/2016	µg/L	6,320	682	1,290	3,650	50 U	311	86	--
	MW-39-031417	3/14/2017	µg/L	6,370	431	2,200	3,700	10 U	199	117	--
	MW-39-032017	3/20/2017	µg/L	7,340	704	2,990	4,050	100 U	248	500 U	--
	MW-39-033117	3/31/2017	µg/L	7,540	899	3,140	4,400	50 U	272	250 U	--
	MW-39-040617	4/6/2017	µg/L	6,180	754	3,280	3,860	50 U	257	250 U	--
	MW-39-062817	6/28/2017	µg/L	5,470	58	3,360	3,900	20 U[b]	239	100 U[b]	--
	MW-39-071717	7/17/2017	µg/L	4,690	100 U	3,760	4,580	100 U[b]	344	500 U[b]	--
	MW-39-080117	8/1/2017	µg/L	4,630	100 U	2,880	4,740	100 U[b]	348	500 U[b]	--
	MW-39-090817	9/8/2017	µg/L	3,380	10.7	1,040	2,740	1 U	376	15.6	--
	MW-39-100417	10/4/2017	µg/L	1,560	50 U	365	1,350	50 U[b]	305	250 U[b]	--
	MW-39-110817	11/8/2017	µg/L	878	50 U	123	368	50 U[b]	442	250 U[b]	--
MW-40	MW-40-120716	12/7/2016	µg/L	6,730	588	7,460	3,390	50 U	373	64.8	--
	MW-40-031417	3/14/2017	µg/L	11,600	1,280	16,100	7,260	50 U	691	250 U	--
	MW-40-032017	3/20/2017	µg/L	12,300	1,330	19,600	7,500	200 U	654	1,000 U	--
	MW-40-033117	3/31/2017	µg/L	13,300	1,500	19,500	8,070	100 U	727	500 U	--
	MW-40-040617	4/6/2017	µg/L	10,400	1,180	16,200	6,570	200 U	650	1,000 U	--
	MW-40-062817	6/28/2017	µg/L	9,250	1,030	19,200	6,540	500 U[b]	590	2,500 U[b]	--
	MW-40-071717	7/17/2017	µg/L	11,400	1,210	25,300	7,430	500 U[b]	727	2,500 U[b]	--
	MW-40-080117	8/1/2017	µg/L	12,000	1,120	23,200	8,070	500 U[b]	631	2,500 U[b]	--
	MW-40-090817	9/8/2017	µg/L	14,300	1,250	28,700	9,250	20 U[b]	716	219	--
	MW-40-100417	10/4/2017	µg/L	13,800	1,000 U[b]	28,800	9,530	1,000 U[b]	1,000 U[b]	5,000 U[b]	--
	MW-40-110817	11/8/2017	µg/L	13,500	1,000 U[b]	23,000	9,290	1,000 U[b]	1,000 U[b]	5,000 U[b]	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-41	MW-41-120716	12/7/2016	µg/L	**212**	2 U	2 U	**155**	2 U	**6.7**	**5.6**	--
	MW-41-031417	3/14/2017	µg/L	**469**	**1.78**	1 U	**275**	1 U	**4.34**	**18.1**	--
	MW-41-032017	3/20/2017	µg/L	**424**	**2.62**	1 U	**342**	1 U	1 U	**16.9**	--
	MW-41-033117	3/31/2017	µg/L	**449**	5 U	5 U	**343**	5 U	5 U	25 U	--
	MW-41-040617	4/6/2017	µg/L	**470**	**2.06**	1 U	**258**	1 U	**3.84**	**10.6**	--
	MW-41-062817	6/28/2017	µg/L	**292**	**8.83**	**2.09**	**271**	1 U	**3.36**	**13.3**	--
	MW-41-071717	7/17/2017	µg/L	**487**	**15.8**	**3.09**	**366**	1 U	**3.62**	**27.9**	--
	MW-41-080117	8/1/2017	µg/L	**371**	10 U	10 U	**260**	10 U[b]	10 U	50 U[b]	--
	MW-41-090817	9/8/2017	µg/L	**189**	**1.51**	1 U	**90**	1 U	**3.74**	5 U	--
	MW-41-100417	10/4/2017	µg/L	**93.5**	1 U	1 U	**59.9**	1 U	**1.84**	5 U	--
	MW-41-110817	11/8/2017	µg/L	**99.6**	1 U	1 U	**56.6**	1 U	**2.46**	**5.68**	--
MW-42	MW-42-120716	12/7/2016	µg/L	**3.8**	1 U	1 U	**2.7**	1 U	1 U	1 U	--
	MW-42-031417	3/14/2017	µg/L	**19.3**	1 U	1 U	3 U	1 U	**1.12**	5 U	--
	MW-42-032017	3/20/2017	µg/L	**59.6**	1 U	1 U	**16.9**	1 U	**1.24**	5 U	--
	MW-42-033117	3/31/2017	µg/L	**135**	1 U	1 U	**73.8**	1 U	1 U	**5.19**	--
	MW-42-040617	4/6/2017	µg/L	**93.5**	1 U	1 U	**53.3**	1 U	**1.18**	5 U	--
	MW-42-062817	6/28/2017	µg/L	**15.1**	1 U	1 U	**11.7**	1 U	**1.25**	5 U	--
	MW-42-090817	9/8/2017	µg/L	**143**	1 U	1 U	**100**	1 U	**1.51**	**5.52**	--
MW-43	MW-43-110817	11/8/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-44	--	3/13/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-44-062917	6/29/2017	µg/L	**1.06**	1 U	**7.12**	**3.11**	1 U	1 U	5 U	--
MW-44B	MW-44B-031317	3/13/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-44B-062817	6/28/2017	µg/L	1 U	1 U	**2.39**	3 U	1 U	1 U	5 U	--
	MW-44B-090717	9/7/2017	µg/L	1 U	1 U	**3.07**	3 U	1 U	1 U	5 U	--
MW-45	--	3/13/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/20/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	3/31/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	--	4/6/2017	--	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW	NS-IW
	MW-45-062917	6/29/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-45-071717	7/17/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-45-080217	8/2/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--

Table 5. Analytical Results for Groundwater

Plantation Pipe Line Company

Lewis Drive Remediation Site, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-45B	MW-45B-031317	3/13/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-45B-032017	3/20/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-45B-033117	3/31/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-45B-040617	4/6/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-45B-062817	6/28/2017	µg/L	1 U	1 U	**1.73**	3 U	1 U	1 U	5 U	--
RBSL[a]:			**µg/L**	5.0	700	1,000	10,000	5.0	40	25	0.05

Notes:

[a] RBSL = Risk-based screening levels identified in South Carolina Underground Storage Tank Management Division Programmatic Quality Assurance Program Plan, Revision 3.1, Table D1 "RBSLs for Groundwater", Febraury 2016

[b] 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 can not be determined.

Samples analyzed by EPA Methods SW 8260B and 8011

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

Gray shading indicates the analyte exceeded RBSLs.

µg/L = microgram(s) per liter

1,2-DCA = 1,2-dichloroethane

EDB = 1,2-dibromoethane

ID = identification

MTBE = methyl tertiary butyl ether

NS-FP = sample not collected due to the presence of free product in the well

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

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

ANALYTICAL REPORT

November 16, 2017

CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group:	L949634
Samples Received:	11/09/2017
Project Number:	684910.LD.MR.GW
Description:	Lewis Drive Groundwater
Site:	LEWIS DRIVE
Report To:	Bethany Garvey 6600 Peachtree Dunwoody Road 400 Embassy Row - Suite 600 Atlanta, GA 30328

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

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ONE LAB. NATIONWIDE.

MW-29-110817 L949634-01 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 07:55 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/09/17 22:52	11/09/17 22:52	ACG

MW-26-110817 L949634-02 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 08:05 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/09/17 23:13	11/09/17 23:13	ACG

MW-23-110817 L949634-03 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 08:15 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	10	11/09/17 23:34	11/09/17 23:34	ACG

MW-43-110817 L949634-04 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 08:38 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/09/17 23:55	11/09/17 23:55	ACG

MW-38-110817 L949634-05 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 08:48 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/10/17 00:17	11/10/17 00:17	ACG

MW-34-110817 L949634-06 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 08:58 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	10	11/10/17 00:38	11/10/17 00:38	ACG

MW-39-110817 L949634-07 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 09:05 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	50	11/10/17 00:59	11/10/17 00:59	ACG

MW-40-110817 L949634-08 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 09:15 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1000	11/10/17 01:21	11/10/17 01:21	ACG

MW-35-110817 L949634-09 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 09:38 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/10/17 01:42	11/10/17 01:42	ACG

MW-25-110817 L949634-10 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 09:45 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/13/17 20:17	11/13/17 20:17	DWR

MW-41-110817 L949634-11 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 09:55 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/10/17 02:26	11/10/17 02:26	ACG

MW-13B-110817 L949634-12 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 10:07 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/10/17 02:47	11/10/17 02:47	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	10	11/13/17 20:36	11/13/17 20:36	DWR

MW-13B-D-110817 L949634-13 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 10:10 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/10/17 03:08	11/10/17 03:08	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	10	11/13/17 20:56	11/13/17 20:56	DWR

MW-31-110817 L949634-14 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 10:20 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/10/17 03:29	11/10/17 03:29	ACG

MW-05-110817 L949634-15 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 10:35 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/10/17 04:55	11/10/17 04:55	ACG

MW-03-110817 L949634-16 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 10:55 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/10/17 05:17	11/10/17 05:17	ACG

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

MW-10-110817 L949634-17 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 11:05 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/10/17 05:38	11/10/17 05:38	ACG

MW-02-110817 L949634-18 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 11:15 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	100	11/13/17 21:16	11/13/17 21:16	DWR

TB01-110817 L949634-19 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 11:48 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/13/17 21:54	11/13/17 21:54	DWR

FB01-110817 L949634-20 GW

Collected by: Melissa Warren | Collected date/time: 11/08/17 11:50 | Received date/time: 11/09/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1041205	1	11/10/17 06:21	11/10/17 06:21	ACG

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	11/09/2017 22:52	WG1041205
Toluene	ND		1.00	1	11/09/2017 22:52	WG1041205
Ethylbenzene	ND		1.00	1	11/09/2017 22:52	WG1041205
Total Xylenes	ND		3.00	1	11/09/2017 22:52	WG1041205
Methyl tert-butyl ether	ND		1.00	1	11/09/2017 22:52	WG1041205
Naphthalene	ND		5.00	1	11/09/2017 22:52	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/09/2017 22:52	WG1041205
(S) Toluene-d8	*99.0*		*80.0-120*		*11/09/2017 22:52*	WG1041205
(S) Dibromofluoromethane	*108*		*76.0-123*		*11/09/2017 22:52*	WG1041205
(S) 4-Bromofluorobenzene	*97.1*		*80.0-120*		*11/09/2017 22:52*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	11/09/2017 23:13	WG1041205
Toluene	1.17		1.00	1	11/09/2017 23:13	WG1041205
Ethylbenzene	ND		1.00	1	11/09/2017 23:13	WG1041205
Total Xylenes	ND		3.00	1	11/09/2017 23:13	WG1041205
Methyl tert-butyl ether	ND		1.00	1	11/09/2017 23:13	WG1041205
Naphthalene	ND		5.00	1	11/09/2017 23:13	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/09/2017 23:13	WG1041205
(S) Toluene-d8	*99.0*		*80.0-120*		*11/09/2017 23:13*	WG1041205
(S) Dibromofluoromethane	*109*		*76.0-123*		*11/09/2017 23:13*	WG1041205
(S) 4-Bromofluorobenzene	*97.6*		*80.0-120*		*11/09/2017 23:13*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	788		10.0	10	11/09/2017 23:34	WG1041205
Toluene	21.5		10.0	10	11/09/2017 23:34	WG1041205
Ethylbenzene	ND		10.0	10	11/09/2017 23:34	WG1041205
Total Xylenes	580		30.0	10	11/09/2017 23:34	WG1041205
Methyl tert-butyl ether	118		10.0	10	11/09/2017 23:34	WG1041205
Naphthalene	ND		50.0	10	11/09/2017 23:34	WG1041205
1,2-Dichloroethane	ND		10.0	10	11/09/2017 23:34	WG1041205
(S) Toluene-d8	*101*		*80.0-120*		*11/09/2017 23:34*	WG1041205
(S) Dibromofluoromethane	*108*		*76.0-123*		*11/09/2017 23:34*	WG1041205
(S) 4-Bromofluorobenzene	*96.2*		*80.0-120*		*11/09/2017 23:34*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	11/09/2017 23:55	WG1041205
Toluene	ND		1.00	1	11/09/2017 23:55	WG1041205
Ethylbenzene	ND		1.00	1	11/09/2017 23:55	WG1041205
Total Xylenes	ND		3.00	1	11/09/2017 23:55	WG1041205
Methyl tert-butyl ether	ND		1.00	1	11/09/2017 23:55	WG1041205
Naphthalene	ND		5.00	1	11/09/2017 23:55	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/09/2017 23:55	WG1041205
(S) Toluene-d8	*98.4*		*80.0-120*		*11/09/2017 23:55*	WG1041205
(S) Dibromofluoromethane	*108*		*76.0-123*		*11/09/2017 23:55*	WG1041205
(S) 4-Bromofluorobenzene	*99.5*		*80.0-120*		*11/09/2017 23:55*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	4.48		1.00	1	11/10/2017 00:17	WG1041205
Toluene	ND		1.00	1	11/10/2017 00:17	WG1041205
Ethylbenzene	ND		1.00	1	11/10/2017 00:17	WG1041205
Total Xylenes	12.4		3.00	1	11/10/2017 00:17	WG1041205
Methyl tert-butyl ether	29.2		1.00	1	11/10/2017 00:17	WG1041205
Naphthalene	ND		5.00	1	11/10/2017 00:17	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/10/2017 00:17	WG1041205
(S) Toluene-d8	*100*		*80.0-120*		*11/10/2017 00:17*	WG1041205
(S) Dibromofluoromethane	*108*		*76.0-123*		*11/10/2017 00:17*	WG1041205
(S) 4-Bromofluorobenzene	*99.7*		*80.0-120*		*11/10/2017 00:17*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	338		10.0	10	11/10/2017 00:38	WG1041205
Toluene	15.3		10.0	10	11/10/2017 00:38	WG1041205
Ethylbenzene	ND		10.0	10	11/10/2017 00:38	WG1041205
Total Xylenes	140		30.0	10	11/10/2017 00:38	WG1041205
Methyl tert-butyl ether	266		10.0	10	11/10/2017 00:38	WG1041205
Naphthalene	ND		50.0	10	11/10/2017 00:38	WG1041205
1,2-Dichloroethane	ND		10.0	10	11/10/2017 00:38	WG1041205
(S) Toluene-d8	*99.0*		*80.0-120*		*11/10/2017 00:38*	WG1041205
(S) Dibromofluoromethane	*109*		*76.0-123*		*11/10/2017 00:38*	WG1041205
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*11/10/2017 00:38*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	878		50.0	50	11/10/2017 00:59	WG1041205
Toluene	123		50.0	50	11/10/2017 00:59	WG1041205
Ethylbenzene	ND		50.0	50	11/10/2017 00:59	WG1041205
Total Xylenes	368		150	50	11/10/2017 00:59	WG1041205
Methyl tert-butyl ether	442		50.0	50	11/10/2017 00:59	WG1041205
Naphthalene	ND		250	50	11/10/2017 00:59	WG1041205
1,2-Dichloroethane	ND		50.0	50	11/10/2017 00:59	WG1041205
(S) Toluene-d8	*99.5*		*80.0-120*		*11/10/2017 00:59*	WG1041205
(S) Dibromofluoromethane	*108*		*76.0-123*		*11/10/2017 00:59*	WG1041205
(S) 4-Bromofluorobenzene	*99.4*		*80.0-120*		*11/10/2017 00:59*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	13500		1000	1000	11/10/2017 01:21	WG1041205
Toluene	23000		1000	1000	11/10/2017 01:21	WG1041205
Ethylbenzene	ND		1000	1000	11/10/2017 01:21	WG1041205
Total Xylenes	9290		3000	1000	11/10/2017 01:21	WG1041205
Methyl tert-butyl ether	ND		1000	1000	11/10/2017 01:21	WG1041205
Naphthalene	ND		5000	1000	11/10/2017 01:21	WG1041205
1,2-Dichloroethane	ND		1000	1000	11/10/2017 01:21	WG1041205
(S) Toluene-d8	*100*		*80.0-120*		*11/10/2017 01:21*	WG1041205
(S) Dibromofluoromethane	*108*		*76.0-123*		*11/10/2017 01:21*	WG1041205
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*11/10/2017 01:21*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	11/10/2017 01:42	WG1041205
Toluene	ND		1.00	1	11/10/2017 01:42	WG1041205
Ethylbenzene	ND		1.00	1	11/10/2017 01:42	WG1041205
Total Xylenes	ND		3.00	1	11/10/2017 01:42	WG1041205
Methyl tert-butyl ether	ND		1.00	1	11/10/2017 01:42	WG1041205
Naphthalene	ND		5.00	1	11/10/2017 01:42	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/10/2017 01:42	WG1041205
(S) Toluene-d8	*100*		*80.0-120*		*11/10/2017 01:42*	WG1041205
(S) Dibromofluoromethane	*107*		*76.0-123*		*11/10/2017 01:42*	WG1041205
(S) 4-Bromofluorobenzene	*96.8*		*80.0-120*		*11/10/2017 01:42*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	82.9		1.00	1	11/13/2017 20:17	WG1041205
Toluene	ND		1.00	1	11/13/2017 20:17	WG1041205
Ethylbenzene	7.21		1.00	1	11/13/2017 20:17	WG1041205
Total Xylenes	143		3.00	1	11/13/2017 20:17	WG1041205
Methyl tert-butyl ether	ND		1.00	1	11/13/2017 20:17	WG1041205
Naphthalene	7.74		5.00	1	11/13/2017 20:17	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/13/2017 20:17	WG1041205
(S) Toluene-d8	*104*		*80.0-120*		*11/13/2017 20:17*	WG1041205
(S) Dibromofluoromethane	*99.8*		*76.0-123*		*11/13/2017 20:17*	WG1041205
(S) 4-Bromofluorobenzene	*107*		*80.0-120*		*11/13/2017 20:17*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	99.6		1.00	1	11/10/2017 02:26	WG1041205
Toluene	ND		1.00	1	11/10/2017 02:26	WG1041205
Ethylbenzene	ND		1.00	1	11/10/2017 02:26	WG1041205
Total Xylenes	56.6		3.00	1	11/10/2017 02:26	WG1041205
Methyl tert-butyl ether	2.46		1.00	1	11/10/2017 02:26	WG1041205
Naphthalene	5.68		5.00	1	11/10/2017 02:26	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/10/2017 02:26	WG1041205
(S) Toluene-d8	*101*		*80.0-120*		*11/10/2017 02:26*	WG1041205
(S) Dibromofluoromethane	*106*		*76.0-123*		*11/10/2017 02:26*	WG1041205
(S) 4-Bromofluorobenzene	*99.5*		*80.0-120*		*11/10/2017 02:26*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	325		10.0	10	11/13/2017 20:36	WG1041205
Toluene	19.0		1.00	1	11/10/2017 02:47	WG1041205
Ethylbenzene	3.42		1.00	1	11/10/2017 02:47	WG1041205
Total Xylenes	91.6		3.00	1	11/10/2017 02:47	WG1041205
Methyl tert-butyl ether	173		1.00	1	11/10/2017 02:47	WG1041205
Naphthalene	5.55		5.00	1	11/10/2017 02:47	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/10/2017 02:47	WG1041205
(S) Toluene-d8	*99.9*		*80.0-120*		*11/10/2017 02:47*	WG1041205
(S) Toluene-d8	*102*		*80.0-120*		*11/13/2017 20:36*	WG1041205
(S) Dibromofluoromethane	*110*		*76.0-123*		*11/10/2017 02:47*	WG1041205
(S) Dibromofluoromethane	*100*		*76.0-123*		*11/13/2017 20:36*	WG1041205
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*11/13/2017 20:36*	WG1041205
(S) 4-Bromofluorobenzene	*98.3*		*80.0-120*		*11/10/2017 02:47*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	356		10.0	10	11/13/2017 20:56	WG1041205
Toluene	20.8		1.00	1	11/10/2017 03:08	WG1041205
Ethylbenzene	3.85		1.00	1	11/10/2017 03:08	WG1041205
Total Xylenes	100		3.00	1	11/10/2017 03:08	WG1041205
Methyl tert-butyl ether	168		1.00	1	11/10/2017 03:08	WG1041205
Naphthalene	6.61		5.00	1	11/10/2017 03:08	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/10/2017 03:08	WG1041205
(S) Toluene-d8	*102*		*80.0-120*		*11/13/2017 20:56*	WG1041205
(S) Toluene-d8	*100*		*80.0-120*		*11/10/2017 03:08*	WG1041205
(S) Dibromofluoromethane	*101*		*76.0-123*		*11/13/2017 20:56*	WG1041205
(S) Dibromofluoromethane	*111*		*76.0-123*		*11/10/2017 03:08*	WG1041205
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*11/13/2017 20:56*	WG1041205
(S) 4-Bromofluorobenzene	*99.7*		*80.0-120*		*11/10/2017 03:08*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	11/10/2017 03:29	WG1041205
Toluene	ND		1.00	1	11/10/2017 03:29	WG1041205
Ethylbenzene	ND		1.00	1	11/10/2017 03:29	WG1041205
Total Xylenes	ND		3.00	1	11/10/2017 03:29	WG1041205
Methyl tert-butyl ether	ND		1.00	1	11/10/2017 03:29	WG1041205
Naphthalene	ND		5.00	1	11/10/2017 03:29	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/10/2017 03:29	WG1041205
(S) Toluene-d8	*99.7*		*80.0-120*		*11/10/2017 03:29*	WG1041205
(S) Dibromofluoromethane	*107*		*76.0-123*		*11/10/2017 03:29*	WG1041205
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*11/10/2017 03:29*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	11/10/2017 04:55	WG1041205
Toluene	ND		1.00	1	11/10/2017 04:55	WG1041205
Ethylbenzene	ND		1.00	1	11/10/2017 04:55	WG1041205
Total Xylenes	ND		3.00	1	11/10/2017 04:55	WG1041205
Methyl tert-butyl ether	ND		1.00	1	11/10/2017 04:55	WG1041205
Naphthalene	ND		5.00	1	11/10/2017 04:55	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/10/2017 04:55	WG1041205
(S) Toluene-d8	*99.9*		*80.0-120*		*11/10/2017 04:55*	WG1041205
(S) Dibromofluoromethane	*106*		*76.0-123*		*11/10/2017 04:55*	WG1041205
(S) 4-Bromofluorobenzene	*97.5*		*80.0-120*		*11/10/2017 04:55*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	11/10/2017 05:17	WG1041205
Toluene	ND		1.00	1	11/10/2017 05:17	WG1041205
Ethylbenzene	ND		1.00	1	11/10/2017 05:17	WG1041205
Total Xylenes	ND		3.00	1	11/10/2017 05:17	WG1041205
Methyl tert-butyl ether	ND		1.00	1	11/10/2017 05:17	WG1041205
Naphthalene	ND		5.00	1	11/10/2017 05:17	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/10/2017 05:17	WG1041205
(S) Toluene-d8	*98.8*		*80.0-120*		*11/10/2017 05:17*	WG1041205
(S) Dibromofluoromethane	*108*		*76.0-123*		*11/10/2017 05:17*	WG1041205
(S) 4-Bromofluorobenzene	*99.3*		*80.0-120*		*11/10/2017 05:17*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	11/10/2017 05:38	WG1041205
Toluene	ND		1.00	1	11/10/2017 05:38	WG1041205
Ethylbenzene	ND		1.00	1	11/10/2017 05:38	WG1041205
Total Xylenes	ND		3.00	1	11/10/2017 05:38	WG1041205
Methyl tert-butyl ether	ND		1.00	1	11/10/2017 05:38	WG1041205
Naphthalene	ND		5.00	1	11/10/2017 05:38	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/10/2017 05:38	WG1041205
(S) Toluene-d8	*101*		*80.0-120*		*11/10/2017 05:38*	WG1041205
(S) Dibromofluoromethane	*109*		*76.0-123*		*11/10/2017 05:38*	WG1041205
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*11/10/2017 05:38*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	850		100	100	11/13/2017 21:16	WG1041205
Toluene	1370		100	100	11/13/2017 21:16	WG1041205
Ethylbenzene	ND		100	100	11/13/2017 21:16	WG1041205
Total Xylenes	3520		300	100	11/13/2017 21:16	WG1041205
Methyl tert-butyl ether	ND		100	100	11/13/2017 21:16	WG1041205
Naphthalene	ND		500	100	11/13/2017 21:16	WG1041205
1,2-Dichloroethane	ND		100	100	11/13/2017 21:16	WG1041205
(S) Toluene-d8	*102*		*80.0-120*		*11/13/2017 21:16*	WG1041205
(S) Dibromofluoromethane	*99.1*		*76.0-123*		*11/13/2017 21:16*	WG1041205
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*11/13/2017 21:16*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	11/13/2017 21:54	WG1041205
Toluene	ND		1.00	1	11/13/2017 21:54	WG1041205
Ethylbenzene	ND		1.00	1	11/13/2017 21:54	WG1041205
Total Xylenes	ND		3.00	1	11/13/2017 21:54	WG1041205
Methyl tert-butyl ether	ND		1.00	1	11/13/2017 21:54	WG1041205
Naphthalene	ND		5.00	1	11/13/2017 21:54	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/13/2017 21:54	WG1041205
(S) Toluene-d8	*104*		*80.0-120*		*11/13/2017 21:54*	WG1041205
(S) Dibromofluoromethane	*101*		*76.0-123*		*11/13/2017 21:54*	WG1041205
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*11/13/2017 21:54*	WG1041205

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	11/10/2017 06:21	WG1041205
Toluene	ND		1.00	1	11/10/2017 06:21	WG1041205
Ethylbenzene	ND		1.00	1	11/10/2017 06:21	WG1041205
Total Xylenes	ND		3.00	1	11/10/2017 06:21	WG1041205
Methyl tert-butyl ether	ND		1.00	1	11/10/2017 06:21	WG1041205
Naphthalene	ND		5.00	1	11/10/2017 06:21	WG1041205
1,2-Dichloroethane	ND		1.00	1	11/10/2017 06:21	WG1041205
(S) Toluene-d8	*99.1*		*80.0-120*		*11/10/2017 06:21*	WG1041205
(S) Dibromofluoromethane	*107*		*76.0-123*		*11/10/2017 06:21*	WG1041205
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*11/10/2017 06:21*	WG1041205

WG1041205

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC/MS) by Method 8260B

L949634-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

(MB) R3265108-2 11/09/17 22:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*99.6*			*80.0-120*
(S) Dibromofluoromethane	*105*			*76.0-123*
(S) 4-Bromofluorobenzene	*93.1*			*80.0-120*

Laboratory Control Sample (LCS)

(LCS) R3265108-1 11/09/17 19:50

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	25.0	24.3	97.1	70.0-130	
1,2-Dichloroethane	25.0	26.7	107	70.0-130	
Ethylbenzene	25.0	23.3	93.2	70.0-130	
Methyl tert-butyl ether	25.0	28.1	112	70.0-130	
Naphthalene	25.0	18.5	73.9	70.0-130	
Toluene	25.0	22.7	90.9	70.0-130	
Xylenes, Total	75.0	70.7	94.3	70.0-130	
(S) Toluene-d8			*98.4*	*80.0-120*	
(S) Dibromofluoromethane			*108*	*76.0-123*	
(S) 4-Bromofluorobenzene			*101*	*80.0-120*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Groundwater

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 654910.LD.MR.GW

Lab Project # KINCH2MGA-LEWIS12

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature): Melissa Warren

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LABORATORIES
A subsidiary of Pace Analytical
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L949634
D074

Acctnum: KINCH2MGA
Template: T121318
Prelogin: P624845
TSR: 526 - Chris McCord
PB: 10-31-17

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEXMNSC 40mlAmb-HCl	V8260BTEXMNSC 40mlAmb-HCl-Blk	BTEX	MTBE	NAPHTHALENE	1,4-DXA	Remarks	Sample # (lab only)
MW-39-110817	GRAB	GW	NA	11/08/17	0755	3	X		X	X	X	X		-01
MW-26-110817		GW			0805	3	X							-02
MW-23-110817		GW			0815	3	X							-03
MW-43-110817		GW			0838	3	X							-04
MW-38-110817		GW			0848	3	X							-05
MW-34-110817		GW			0858	3	X							-06
MW-39-110817		GW			0905	3	X							-07
MW-40-110817		GW			0915	3	X							-08
MW-35-110817		GW			0938	3	X							-09
MW-25-110817		GW			0945	3	X							-10

* Matrix
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other ____

Remarks:

pH ____ Temp ____

Flow ____ Other ____

Samples returned via:
__ UPS __ FedEx __ Courier ____

Tracking # 4142 5216 2137

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
Melissa Warren	11/08/17	1500		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.5 °C Bottles Received: 57
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/9/17 Time: 08:45

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Report to: Bethany Garvey

Email To: bgarvey@ch2m.com; tom.wiley@ch2m.com; scott.powell@ch2m.com;

Project Description: Lewis Drive Groundwater

City/State Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project # 684910.LD.MR.GW

Lab Project # KINCH2MGA-LEWIS12

Collected by (print): MELISSA WARREN

Site/Facility ID # LEWIS DRIVE

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N ___ Y ___

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No of Cntrs	V8260BTEXMNSC 40mlAmb-HCl	V8260BTEXMNSC 40mlAmb-HCl-Blk	BTEX	MTBE	NAPHTHALENE	1,2 - DCA	Remarks	Sample # (lab only)
MW-41-110817	GRAB	GW	NA	11/08/17	0955	3	X		X	X	X	X		-11
MW-13B-110817		GW			1007	3	X							-12
MW-13B-D-110817		GW			1010	3	X							-13
MW-31-110817		GW			1020	3	X							-14
MW-05-110817		GW			1035	3	X							-15
MW-03-110817		GW			1055	3	X							-16
MW-10-110817		GW			1105	3	X							-17
MW-02-110817		GW			1115	3	X							-18
TB01-110817		GW			1148	1	X	X						-19
FB01-110817		GW			1150	3	X	X						-20

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ___ Temp ___
Flow ___ Other ___

Samples returned via:
__ UPS __ FedEx __ Courier __

Tracking # 4142 5216 2137

Trip Blank Received: Yes / (No) HCl / MeoH TBR

Temp: 1.5 °C Bottles Received: 57

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	11/08/17	1500	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			861

Date: 11/9/17 Time: 08:45

Chain of Custody Page 2 of 2

ESC LABORATORY SCIENCES
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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 949634

Table #

Acctnum: KINCH2MGA
Template: T121318
Prelogin: P624845
TSR: 526 - Chris McCord
PB: 10-31-17

Shipped Via: FedEX Ground

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

CH2M
6600 Peachtree Dunwoody Rd
400 Embassy Row, Suite 600
Atlanta, GA

Telephone: 770-604-9095
Fax: 770-604-9183

WELL NUMBER MW-02B

CLIENT Plantation Pipe Line Company
PROJECT NAME Lewis Drive Remediation
PROJECT NUMBER 684910
PROJECT LOCATION Belton, South Carolina
DATE STARTED 6/7/15 **COMPLETED** 10/5/17
GROUND ELEVATION 841.18 ft **HOLE SIZE** 13/4 inches
DRILLING CONTRACTOR AE Drilling, Piedmont, SC
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger/Wire Line/Air Rotary
AT TIME OF DRILLING ---
LOGGED BY M. Karafa/ATL **CHECKED BY**
AT END OF DRILLING 4.59 ft / Elev 836.59 ft btoc
NOTES Well installed 6/7/15 - open hole, 10/5/17 2-inch PVC well
AFTER DRILLING 81.70 ft / Elev 759.48 ft btoc/dry

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0	SPT	15	5-3-4-4 (7)	SM		(SM) SILTY SAND; brownish yellow (10YR 6/6), dry, loose, very fine to fine sand, organics.	PID = 3.9	Casing Top Elev: 841.2 (ft)
						3.0 / 838.2		
						(CL) SANDY CLAY; brownish yellow (10YR 6/6), dry, stiff, very fine to fine sand, trace fine quartz gravel.		
5	SPT	79	1-4-5-6 (9)	CL			PID = 1394	
						9.0 / 832.2		
10	SPT	46	1-2-2-5 (4)	SC		(SC) SAPROLITE, CLAYEY SAND; dark red (10R 3/6), moist, loose, very fine to medium sand, micaceous, yellowish brown (10YR 5/8) and very pale brown (10YR 8/4) banding.	PID = 1220	6" Steel Casing
15	SPT	71	2-3-6-8 (9)				PID = 28.9	
20	SPT	71	2-4-6-8 (10)			Dark red (2.5Y 3/6) with dark reddish brown (5YR 3/4) and pinkish white (2.5YR 8/2) banding.	PID = 32.8	
25								

(Continued Next Page)

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Atlanta, GA

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Fax: 770-604-9183

WELL NUMBER MW-02B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
25	SPT	83	1-4-7-7 (11)	SC		(SC) SAPROLITE, CLAYEY SAND; dark red (10R 3/6), moist, loose, very fine to medium sand, micaceous, yellowish brown (10YR 5/8) and very pale brown (10YR 8/4) banding. *(continued)*	PID = 22.6	
30	SPT	79	4-5-6-8 (11)				PID = 15.8	Portland I/II with 3-5% Bentonite
35	SPT	71	2-4-6-11 (10)				PID = 17.9	
40	SPT	79	4-7-12-14 (19)			Yellowish brown (5YR 4/6) with black (5YR 2.5/1) and white (2.5YR 8/1) banding. Fine quartz gravel lens.	PID = 15.2	
45	SPT	71	2-3-7-8 (10)				PID = 7.3	
50	SPT	71	5-24-14-18 (38)			Dense, grey (10YR 5/1) and white (2.5YR 8/1) banding.	PID = 6.2	

(Continued Next Page)

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WELL NUMBER MW-02B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
55	SPT	21	50-50	SC		(SC) SAPROLITE, CLAYEY SAND; dark red (10R 3/6), moist, loose, very fine to medium sand, micaceous, yellowish brown (10YR 5/8) and very pale brown (10YR 8/4) banding. *(continued)* Very dense.	PID = 6.5	
60	SPT	33	24-50	SW		60.0 781.2 (SW) PARTIALLY WEATHERED BEDROCK; gneissic structure.	PID = 13.2	
65	RC	91 (72)				64.7 776.5 Trace gneiss rock fragments. BEDROCK; biotite gneiss, very strong, light grey (N8), gneissic, medium foliation, fresh to pitted, slightly fractured. FRACTURE; 64.85', foliation plane joint, smooth to rough, very narrow, no infilling, moist, oxidation staining. FRACTURE; 65.25', foliation plane joint, smooth to rough, very narrow, no infilling, moist, oxidation staining. FRACTURE; 67.95', foliation plane joint, rough, narrow, no infilling, moist, oxidation staining.	PID = 0	Baroid Pure Gold Hole Plug 3/8" pellets
70	RC	94 (72)				FRACTURE; 70', foliation plane joint, horizontal, rough, narrow, no infilling, moist, oxidation staining. FRACTURE; 70.4', foliation plane joint, horizontal, rough, narrow, no infilling, moist, oxidation staining. Trace garnets. FRACTURE; 71.53', foliation plane joint, horizontal, rough, narrow, no infilling, moist, oxidation staining. FRACTURE; 73', foliation bedding plane joint, horizontal, rough, narrow, no infilling, moist, oxidation staining.		
75	RC	100 (90)				FRACTURE; 73.65', foliation plane joint, horizontal, rough, narrow, no infilling, moist, oxidation staining. FRACTURE; 74.05', foliation plane joint, horizontal, rough, narrow, no infilling, moist, oxidation staining. Less competent, weathered and pitted.		Filter Media GP#1 Sand 2"-Schedule 40 PVC, 0.010 slot
80		100				FRACTURE; 77.8', foliation plane joint, horizontal, smooth, narrow, no infilling, moist to dry. FRACTURE; 79.05', foliation plane joint, horizontal, smooth, narrow, no infilling, moist to dry. Less foliation, trace quartz crystals.	PID = 0	

(Continued Next Page)

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WELL NUMBER MW-02B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
85	RC	(72)				BEDROCK; biotite gneiss, very strong, light grey (N8), gneissic, medium foliation, fresh to pitted, slightly fractured. *(continued)* FRACTURE; 83', foliation plane joint, horizontal, smooth, narrow, no infilling, moist to dry. FRACTURE; 83.65', foliation plane joint, smooth, very narrow, non-cohesive, saprolitic infilling, moist. FRACTURE; 84.8', foliation plane joint, horizontal, smooth, narrow, no infilling, moist to dry. Foliated, abundant large quartz crystals. FRACTURE; 86.5', foliation plane joint, horizontal, rough, very narrow, pyrite mineralization, moist.	PID = 0	Filter Media GP#1 Sand
	RC	97 (97)						
89.5						751.7		

Refusal at 66.5 feet.
Bottom of borehole at 89.5 feet.

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Plantation Pipeline (last) (first)
Address: 1000 Windward Concourse, Suite 450
City: Alpharetta State: SC Zip: 30005-0000
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Anderson
Name:
Street Address: Lewis Drive
City: Anderson Zip: 29627-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-02B
Well was converted from open hole to a screened well.
Bentonite seal 62.7-67.7' bgs

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: MW-10136

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-5-17
81.7 ft. Date Completed: 10-5-17

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4-inch/2-inch
Type: ☑ PVC ☐ Galvanized ☑ Steel ☐ Other
4 (steel) in. to 70 ft. depth
2 (PVC) in. to 69 ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2-inch
Slot/Gauge: 0.010-inch Length: 12.7 feet
Set Between: 69 ft. and 81.7 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 67.7 ft. to 81.7 ft.
Effective size #1 Uniformity Coefficient sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From ground surface ft. to 62.7 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Terry R. Creasman Jr. **CERT. NO.:** 2116
Address: (Print) 30 Grant Park Place
Piedmont, SC 29673
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 864-288-1966 Fax No.: 864-288-2272

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ (Well Driller) Date: 11/9/17

If D Level Driller, provide supervising driller's name:
William Barnes, #562-A

CH2M
6600 Peachtree Dunwoody Rd
400 Embassy Row, Suite 600
Atlanta, GA

Telephone: 770-604-9095
Fax: 770-604-9183

WELL NUMBER MW-06B

CLIENT Plantation Pipe Line Company
PROJECT NAME Lewis Drive Remediation
PROJECT NUMBER 684910
PROJECT LOCATION Belton, South Carolina
DATE STARTED 9/5/17 **COMPLETED** 10/17/17
GROUND ELEVATION 852.42 ft **HOLE SIZE** 10/3.75 inches
DRILLING CONTRACTOR AE Drilling, Piedmont, SC
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger/Wire Line/Air Rotary
AT TIME OF DRILLING —
LOGGED BY M. Karafa/ATL **CHECKED BY**
AT END OF DRILLING ---
NOTES 54 ft bgs switched from HSA to rotary/mobile drill B57
AFTER DRILLING 77.80 ft / Elev 774.62 ft btoc

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0							Casing Type: steel
5	SPT 1	100	2-3-4-5 (7)		SILTY SAND (SM)-brown, moist, dense, very fine sand with silt and few mica 5.0 847.4 6.0 846.4	PID = 0 PID = 0	
10	SPT 2	100	4-3-2-4 (5)		SILTY SAND (SM)- saprolite, silty sand, brown with yellow mottling, moist, loose, very fine to medium grained sand with silt, clay, and mica. @ 9.5'- manganese black mottling 10.0 842.4	PID = 0 PID = 0	6" Steel Casing
15	SPT 3	100	3-2-5-5 (7)		SILTY SAND (SM)- saprolite, silty sand, brown with mica and lense, moist, loose, very fine to medium grain sand with silt and mica 16.0 836.4	PID = 0 PID = 0	
20	SPT 4	100	1-2-3-5 (5)		SILTY SAND (SM)- saprolite, silty sand, brown, wet, very loose, very fine to medium grain sand with silt and mica 21.0 831.4	PID = 0 PID = 0	
25	SPT		4-4-8-11			PID = 0	

(Continued Next Page)

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WELL NUMBER MW-06B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
25	5	100	(12)		SILTY SAND (SM)- saprolite, silty sand, brown with yellow and black mottling, wet, loose, very fine to medium grain sand with mica and silt *(continued)*	PID = 0	
					26.0 826.4		
30	SPT 6	100	4-8-10-11 (18)		SILTY SAND (SM)- same as above, more mica (micaceous)	PID = 0 PID = 0	
					31.0 821.4		
35	SPT 7	100	6-6-8-8 (14)		SAND (SP)- poorly graded saprolite, light brown, wet, medium dense, micaceous, fine to medium grain sand with black manganese stain	PID = 0 PID = 0	Portland I/II with 3-5% Bentonite
					36.0 816.4		
40	SPT 8	100	1-2-5-8 (7)		SAND (SP)- same as above	PID = 0 PID = 0	
					41.0 811.4		
45	SPT 9	100	2-5-7-8 (12)		SAND (SP)- saprolite, poorly graded sand, brown, wet, very loose, fine sand with mica SAND (SP)- saprolite, poorly graded sand, greenish gray, wet, loose, completely weathered rock with foliation, mica and black manganese stain	PID = 0 PID = 0	
					46.0 806.4		
50	SPT 10	100	3-3-5-7 (8)		WELL GRADED SAND (SW)- saprolite, well graded sand, greenish gray with black, yellow, and white mottling, loose, completely weathered rock with foliation, mica, fine to coarse grain sand, calcite, biotite, wet	PID = 0 PID = 0	
					51.0 801.4		

(Continued Next Page)

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Atlanta, GA

Telephone: 770-604-9095
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WELL NUMBER MW-06B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
55	RC 1	100 (84)			BED ROCK- boitite gneiss, black with white and gray, quartz, plagioclase, biotite, mica, medium to fine grain, slightly weathered, strong rock, foliated	PID = 0	
					56.1 796.3		
	RC 2	97 (0)			BED ROCK - biotite gneiss, black with gray, plagioclase, quartz, biotite mica, medium to fine grain, partially weather, highly fractured, oxidized mottling, foliated, strong	PID = 0	
					58.6 793.8		
60	RC 3	100 (89)			BED ROCK- biotite gneiss, black, quartz, biotite mica, plagioclase, amphibolite, medium to fine grain, slightly weathered, very strong, highly foliated	PID = 0	
					60.4 792.0		
	RC 4	100 (94)			BED ROCK- same as above	PID = 0	
65					65.5 786.9		
	AU 1				BED ROCK- biotite gneiss, fresh, powder and dust, dry	PID = 0	
70					70.5 781.9		
	AU 2				BED ROCK- same as above	PID = 0	
75					75.5 776.9		
	AU 3				BED ROCK- same as above	PID = 0	← Open Borehole
80					80.5 771.9		
					BED ROCK - white and gray granite chips, fresh, quartz, biotite, fledspar	PID = 0	

(Continued Next Page)

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WELL NUMBER MW-06B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
85	AU 4				BED ROCK - white and gray granite chips, fresh, quartz, biotite, fledspar *(continued)*		

85.5 766.9

Refusal at 54.0 feet.
Bottom of borehole at 85.5 feet.

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Plantation Pipeline (last) (first)
Address: 1000 Windward Concourse, Suite 450
City: Alpharetta State: SC Zip: 30005-0000
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Anderson
Name:
Street Address: Lewis Drive
City: Anderson Zip: 29627-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-06B
Open hole well

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: MW-11117

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 9-5-17
85.5 ft. Date Completed: 10-17-17

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4-inch
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
4 in. to 65.5 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: No screen Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From ground surface ft. to 65.5 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Terry R. Creasman Jr. **CERT. NO.:** 2116
Address: (Print) 30 Grant Park Place, Piedmont, SC 29673
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 864-266-1966 Fax No.: 864-288-2272

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ (Well Driller) Date: 11/9/17

If D Level Driller, provide supervising driller's name:
William Barnes, #562-A

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

CH2M
6600 Peachtree Dunwoody Rd
400 Embassy Row, Suite 600
Atlanta, GA

Telephone: 770-604-9095
Fax: 770-604-9183

WELL NUMBER MW-09B

CLIENT Plantation Pipe Line Company
PROJECT NAME Lewis Drive Remediation
PROJECT NUMBER 684910
PROJECT LOCATION Belton, South Carolina
DATE STARTED 10/3/17 **COMPLETED** 10/17/17
GROUND ELEVATION 843.71 ft **HOLE SIZE** 10/3.75 inches
DRILLING CONTRACTOR AE Drilling, Piedmont, SC
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger/Wire Line/Air Rotary
AT TIME OF DRILLING ---
LOGGED BY M. Karafa/ATL **CHECKED BY**
AT END OF DRILLING ---
NOTES 86 ft bgs switched from HSA to rotary/mobile drill B57
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0							
5	SPT 1		2-5-3-7 (8)		SILTY SAND (SM) - brown, moist, loose, very fine sand with silt and clay, odor. 5-6'- saprolite, silty sand, dark brown, very loose. wet, fine to medium grain sand with silt and mica, odr. 6.0 / 837.7	PID = 933 PID = 960	
10	SPT 2		3-4-5-6 (9)		CLAYEY SAND (SC)- saprolite, clayey sand, light brown, moist, loose, very fine sand with clay and mica 9.5 / 834.2 POORLY GRADED SAND (SP)- saprolite, poorly graded sand, reddish brown with yellow mottling, wet, very loose, fine sand with mica and silt 10.0 / 833.7	PID = 66.6 PID = 100	6" Steel Casing
15	SPT 3		2-3-3-5 (6)		POORLY GRADED SAND (SP)- same as above 16.0 / 827.7	PID = 146.3 PID = 50.1	
20	SPT 4		2-3-4-4 (7)		POORLY GRADED SAND (SP)- same as above, small micaceous lenses, @ 20.5'- very saturated. 21.0 / 822.7	PID = 62.3 PID = 913	
25	SPT		3-4-5-8			PID = 62.2	

(Continued Next Page)

CH2M
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Atlanta, GA

Telephone: 770-604-9095
Fax: 770-604-9183

WELL NUMBER MW-09B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
25	5		(9)		POORLY GRADED SAND (SP)- saprolite, very highly weathered rock structures, reddish brown with white and yellow mottling, wet, very loose, fine sand with mica *(continued)* 26.0 / 817.7	PID = 36	
30	SPT 6		4-7-7-11 (14)		POORLY GRADED SAND (SP)- same as above, small micaceous lenses, medium dense 31.0 / 812.7	PID = 20.1 PID = 7.5	
35	SPT 7		2-4-6-6 (10)		POORLY GRADED SAND (SP)- saprolite, gray, wet, very loose, very micaceous with fine sand, highly weathered rock structure 36.0 / 807.7	PID = 5.6 PID = 0.7	
40	SPT 8		3-9-6-11 (15)		POORLY GRADED SAND (SP)- saprolite, greenish-gray, wet, very loose, micaceous with fine sand and layers of highly weathered rock in 3" bands 41.0 / 802.7	PID = 2.7 PID = 0.7	
45	SPT 9		3-4-6-7 (10)		POORLY GRADED SAND (SP)- same as above, very micaceous 46.0 / 797.7	PID = 0.7 PID = 0.5	
50	SPT 10		3-5-6-9 (11)		POORLY GRADED SNAD (SP)- same as above, lenses of weathered rock structures and yellow mottling at 50.5' 51.0 / 792.7	PID = 0.4 PID = 0.3	

(Continued Next Page)

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WELL NUMBER MW-09B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
55	SPT 11		5-6-9-12 (15)		SILTY SAND (SM)- saprollite, greenish-gray, wet, very loose, micaceous, fine sand with silt and mica, yellow mottling at 54.5'	PID = 0.3 PID = 0.5	
					56.0 787.7		
60	SPT 12		5-6-10-14 (16)		SILTY SAND (SM)- same as above, pieces of weathered rock	PID = 0.2 PID = 0	
					61.0 782.7		
65	SPT 13		4-6-8-11 (14)		SILTY SAND (SM)- saprolite, greenish-gray with yellow mottling, loose, micaceous silty sand with lenses, very highly weathered rock	PID = 0 PID = 0	← Portland I/II with 3-5% Bentonite
					66.0 777.7		
70	SPT 14		9-12-13-21 (25)		SILTY SAND (SM)- same as above	PID = 0	
					70.0 773.7		
					WELL GRADED SAND (SW)- saprolite, greenish-gray with yellow mottling, wet, dense, very highly weathered rock with rock structures, very fine to coarse grained sand and mica	PID = 0	
					71.0 772.7		
75	SPT 15		6-7-15-17 (22)		WELL GRADED SAND (SW)- same as above, more micaceous, highly foliated	PID = 0 PID = 0	
					76.0 767.7		
80	SPT 16		13-20-40-50 (60)		POORLY GRADED SAND (SP)- saprolite, greenish-gray with yellow mottling, very dense, wet, very highly weathered micaceous bed rock with mica, highly foliated	PID = 0 PID = 0	
					81.0 762.7		

(Continued Next Page)

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WELL NUMBER MW-09B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
85	SPT 17		33-50		POORLY GRADED SAND (SP)- same as above	PID = 0	
					86.0 757.7	PID = 0	
90	SS 1				NO SAMPLING DONE		
95	SS 2						
100	SS 3						
105	SS 4						
110	SS 5						

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/20/17 09:39 - \\ATLFPP01\PROJ\KINDERMORGAN\654558\LEWISDRER\GINT\19-26-17\DATABASE\LEWIS DRIVE ISA BORING LOGS.GPJ

(Continued Next Page)

CH2M
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Telephone: 770-604-9095
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WELL NUMBER MW-09B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
					NO SAMPLING DONE *(continued)*		
115	SS 6						
	SS 7				116.5 727.2		
	AU 1	111 (78)			BED ROCK- biotite gneiss black with white and gray, quartz and quartz veins, biotite in plagioclase, fine to medium grained, slightly weathered, foliated, blotched to mottled in 116.5-117.5 ft bgs, hard rock, same iron staining on joint surfaces, moderately fractured, quartz blotched	PID = 0	
120					121.0 722.7		
	AU 2	100 (88)			BED ROCK- biotite gneiss, black with white and gray, quartz plagioclase, biotite mica, fine to medium grained, moderately fractured, mottling, some iron staining/oxidation, foliations, hard rock, slight weathering, 124.5-125 ft bgs quartz blotching	PID = 0	
125					126.0 717.7		
	AU 3	100 (95)			BED ROCK- biotite gneiss, black and white with gray, quartz, plagioclase, and biotite mica, fine to medium grained, medium fracturing, mottled, some iron staining/oxidation on fractures, strong rock, foliated	PID = 0	
130					131.5 712.2		
					BED ROCK- biotite gneiss, biotite quartz, powder, dust, dry		
135					136.0 707.7		
					BED ROCK- same as above		

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/20/17 09:39 - \\ATLFPP01\PROJ\KINDERMORGAN\654558LEWISDRER\GINT\9-26-17\DATABASE\LEWIS DRIVE ISA BORING LOGS.GPJ

(Continued Next Page)

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6600 Peachtree Dunwoody Rd
400 Embassy Row, Suite 600
Atlanta, GA

Telephone: 770-604-9095
Fax: 770-604-9183

WELL NUMBER MW-09B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
140					BED ROCK- same as above *(continued)*		
					141.0 — 702.7 BED ROCK- same as above		← Open Borehole
145					146.0 — 697.7 BED ROCK- same as above		
150					151.0 — 692.7		

Refusal at 116.5 feet.
Bottom of borehole at 151.5 feet.

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Plantation Pipeline (last) (first)
Address: 1000 Windward Concourse, Suite 450
City: Alpharetta State: SC Zip: 30005-0000
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Anderson
Name:
Street Address: Lewis Drive
City: Anderson Zip: 29627-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-09B
Open hole well

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: MW-11117

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-3-17
151 ft. Date Completed: 10-17-17

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4-inch
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
4 in. to 131 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: No screen Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From ground surface ft. to 131 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Terry R. Creasman Jr. **CERT. NO.:** 2116
Address: (Print) 30 Grant Park Place
Piedmont, SC 29673
Level: A B C D (circle one) ☐ ☐ ☐ ☑
Telephone No.: 864-288-1988 Fax No.: 864-288-2272

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ (Well Driller) Date: 11/9/17

If D Level Driller, provide supervising driller's name:
William Barnes, #562-A

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

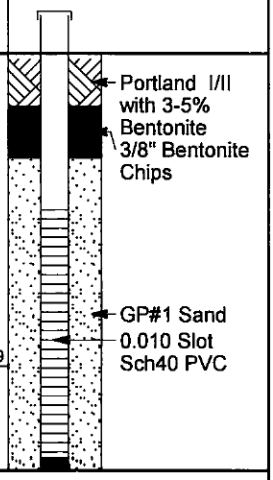
CH2M
6600 Peachtree Dunwoody Rd
400 Embassy Row, Suite 600
Atlanta, GA

Telephone: 770-604-9095
Fax: 770-604-9183

WELL NUMBER MW-43

CLIENT Plantation Pipe Line Company
PROJECT NAME Lewis Drive Remediation
PROJECT NUMBER 684910
PROJECT LOCATION Belton, South Carolina
DATE STARTED 10/20/17 **COMPLETED** 10/20/17
GROUND ELEVATION 815.92 ft **HOLE SIZE** 8.5/2 inches
DRILLING CONTRACTOR AE Drilling, Piedmont, SC
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger/Wire Line/Air Rotary
AT TIME OF DRILLING ---
LOGGED BY M. Karafa **CHECKED BY**
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						
5	SPT 1	100	2-3-7-6 (10)		SILTY SAND- silty sand (SM), 5Y 8/1 white, 5Y 4/1 dark grey, 2.5Y 7/8 yellow, damp, fine grain, banded, soft	
					6.0 809.9	



Bottom of borehole at 8.0 feet.

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Plantation Pipeline (last) (first)
Address: 1000 Windward Concourse, Suite 450
City: Alpharetta State: SC Zip: 30005-0000
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Anderson
Name:
Street Address: Lewis Drive
City: Anderson Zip: 29627-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-43
Bentonite seal 1-2' bgs

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: MW-10964

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-20-17
7.5 ft. Date Completed: 10-20-17

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2-inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 2.5 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2-inch
Slot/Gauge: 0.010-inch Length: 5 feet
Set Between: 2.5 ft. and 7.5 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 2 ft. to 8 ft.
Effective size #1 Uniformity Coefficient sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From ground surface ft. to 1 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Terry R. Creasman Jr. **CERT. NO.:** 2116
Address: (Print) 30 Grant Park Place, Piedmont, SC 29673
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: ~~864-288-1988~~ Fax No.: 864-288-2272

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ (Well Driller) Date: 11/9/17

If D Level Driller, provide supervising driller's name:
William Barnes, #562-A

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

WELL NUMBER MW-43B

CH2M
6600 Peachtree Dunwoody Rd
400 Embassy Row, Suite 600
Atlanta, GA

Telephone: 770-604-9095
Fax: 770-604-9183

CLIENT Plantation Pipe Line Company
PROJECT NAME Lewis Drive Remediation
PROJECT NUMBER 684910
PROJECT LOCATION Belton, South Carolina
DATE STARTED 10/18/17 **COMPLETED** 10/19/17
GROUND ELEVATION 816.08 ft **HOLE SIZE** 10/3.75 inches
DRILLING CONTRACTOR AE Drilling, Piedmont, SC
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger/Wire Line/Air Rotary
AT TIME OF DRILLING ---
LOGGED BY M. Karafa **CHECKED BY**
AT END OF DRILLING ---
NOTES 23.5 ft bgs switched from HSA to rotary/mobile drill B57
AFTER DRILLING 44.35 ft / Elev 771.73 ft btoc

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	TESTS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0	SPT 1	100	1-2-1-2 (3)	MW-43B-01-02 at 1-2', for BTEX and NAPH		SILTY SAND- silty sand (SM), 10YR 5/3 brown, dry, soft, fine grain, some micas 2.0 814.1	PID = 0.2	
5	SPT 2	83	2-5-10-6 (15)			SILTY SAND- silty sand (SM), 5Y 8/1 white, 5Y 4/1 dark grey, 2.5Y 7/8 yellow, damp, fine grain, soft, banded, micaceous, saprolite 6.0 810.1	PID = 13.9	
10	SPT 3	67	1-1-2-1 (3)			SILTY SAND- same as above, wet 11.0 805.1	PID = 9.3	4" Steel Casing
15	SPT 4	63	16-9-7-13 (16)			SILTY SAND- same as above, 2.5YR 4/4 brown, 5YR 3/1 dark grey, 7.5YR 5/3 brown, 7.5YR 6/8 reddish yellow 16.0 800.1	PID = 9.1	Portland I/II with 3-5% Bentonite
20	SPT 5	50	5-5-7-9 (12)			SILTY SAND- same as 14'-16', with weathered rock 21.0 795.1	PID = 0	
25						BEDROCK- biotite gneiss, very strong, white with dark grey, fresh, competent, slightly fractured		

(Continued Next Page)

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WELL NUMBER MW-43B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	TESTS	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
25						26.1 790.0 BEDROCK- same as above, no natural fractures		
30						31.5 784.6 BEDROCK- granitic chips, quartz, feldspar, dry, powder dust		
35						36.5 779.6 BEDROCK- same as above		
40						41.5 774.6 BEDROCK- same as above		Open Borehole
45						46.0 770.1 BEDROCK- same as above		
50						51.5 764.6		

Refusal at 23.0 feet.
Bottom of borehole at 51.5 feet.

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Plantation Pipeline (last) (first)
Address: 1000 Windward Concourse, Suite 450
City: Alpharetta State: SC Zip: 30005-0000
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Anderson
Name:
Street Address: Lewis Drive
City: Anderson Zip: 29627-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-43B
Open hole well

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: MW-10964

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-18-17
51 ft. Date Completed: 10-19-17

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4-inch
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
4 in. to 31 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: No screen Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From ground surface ft. to 31 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Terry R. Creasman Jr. **CERT. NO.:** 2116
Address: (Print) 30 Grant Park Place
Piedmont, SC 29673
Level: A B C D (circle one) ☐ ☐ ☐ ☑
Telephone No.: 864-288-1986 Fax No.: 864-288-2272

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ Date: 11/9/17
Well Driller

If D Level Driller, provide supervising driller's name:
William Barnes, #562-A

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

WELL NUMBER MW-46

CH2M HILL
6600 Peachtree Dunwoody Road, 400 Embassy Row, Suite 600
Atlanta, GA 30328

CLIENT Plantation Pipe Line Company
PROJECT NAME Lewis Drive Remediation
PROJECT NUMBER 684910
PROJECT LOCATION Belton, South Carolina
DATE STARTED 9/13/17 **COMPLETED** 9/13/17
GROUND ELEVATION 842.43 ft **HOLE SIZE** 8.5 inches
DRILLING CONTRACTOR AE Drilling, Piedmont, SC
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 8040DT with 4.25-in ID HSA
AT TIME OF DRILLING ---
LOGGED BY J. McCann **CHECKED BY**
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0								
5	SPT 1	100	10-9-9-8 (18)	SM		(SM) SILTY SAND: yellowish brown, dry, medium dense, non-plastic	PID = 0.7	
						6.0 / 836.4	PID = 0.4	
10	SPT 2	63	2-2-3-3 (5)	SP		(SP) SAND WITH SILT: white and black with some yellowish brown weathering, wet, loose non-plastic	PID = 0.2	
						11.0 / 831.4	PID = 0.2	

Portland I/II with 3-5% Bentonite
3/8" Bentonite Chips
GP#1 Sand
0.010 Slot Sch40 PVC
Flat bottom cap

Bottom of borehole at 14.5 feet.

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Plantation Pipeline (last) (first)
Address: 1000 Windward Concourse, Suite 450
City: Alpharetta State: SC Zip: 30005-0000
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Anderson
Name:
Street Address: Lewis Drive
City: Anderson Zip: 29627-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-46
Bentonite seal 5-7' bgs

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: MW-11117

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 9-13-17
14 ft. Date Completed: 9-13-17

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2-inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 9 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2-inch
Slot/Gauge: 0.010-inch Length: 5 feet
Set Between: 9 ft. and 14 ft. **NOTE: MULTIPLE SCREENS**
_____ ft. and _____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 7 ft. to 14 ft.
Effective size #1 Uniformity Coefficient sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From ground surface ft. to 5 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Terry R. Creasman Jr. **CERT. NO.:** 2116
Address: (Print) 30 Grant Park Place
Piedmont, SC 29673
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: ~~864-288-1988~~ Fax No.: 864-288-2272

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ Date: 11/9/17
Well Driller

If D Level Driller, provide supervising driller's name:
William Barnes, #562-A

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

WELL NUMBER MW-47

CH2M HILL
6600 Peachtree Dunwoody Road, 400 Embassy Row, Suite 600
Atlanta, GA 30328

CLIENT Plantation Pipe Line Company
PROJECT NAME Lewis Drive Remediation
PROJECT NUMBER 684910
PROJECT LOCATION Belton, South Carolina
DATE STARTED 9/14/17 **COMPLETED** 9/14/17
GROUND ELEVATION 839.89 ft **HOLE SIZE** 8.5 inches
DRILLING CONTRACTOR AE Drilling, Piedmont, SC
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 8040DT with 4.25-in ID HSA
AT TIME OF DRILLING ---
LOGGED BY M. Karafa **CHECKED BY**
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0								
5	SPT 1	100	4-6-7-9 (13)		ML		(ML) SILTY CLAY: 2.5Y 4/6 red, dry, fine grained, dense, micaceous, low plasticity	PID = 0.8
							6.5 / 833.4	
10	SPT 2	75	2-2-3-4 (5)	Collected sample MW-47-09-11 for BTEX and Naphthalene	ML		(ML) CLAYEY SILT: 7.5YR 7/8 reddish yellow, 2.5YR 4/6 red, white and black bands, dry, fine grained, moderate dense, banded saprolite	PID = 0.7
							11.5 / 828.4	
15	SPT 3	100	1-1-2-4 (3)		ML		(ML) SILTY CLAY: 7.5 Y 7/8 reddish yellow, wet, fine grained, soft, slightly banded, low plasticity	PID = 1.2
							16.0 / 823.9	
					ML		16.5 / 823.4 (ML) CLAYEY SILT: 2.5 YR 4/6 red, 7.5 YR 5/4 brown, black bands, wet, fine grained, soft, micaceous saprolite	
20	SPT 4	71	3-4-3-5 (7)		SM		(SM) SILTY SAND: white, grey and black bands, wet, fine grained, loose, some weathered rock, fray, micaceous saprolite	PID = 1
							21.2 / 818.7	
					ML		21.5 / 818.4 (ML) SILTY CLAY: 7.5 YR 6/6 reddish yellow, wet, fine grained, soft	
							Bottom of borehole at 21.5 feet.	

WELL DIAGRAM

- Portland I/II with 3-5% Bentonite
- 3/8" Bentonite Chips
- GP#1 Sand
- 0.010 Slot Sch40 PVC
- Flat bottom cap

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 11/9/17 12:48 - \\ATL\FPP01\PROJ\KINDERMORGAN\665455\LEWISDRER\GINT\9-26-17\DATABASE\LEWIS DRIVE ISA BORING LOGS.GPJ

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Plantation Pipeline (last) (first)
Address: 1000 Windward Concourse, Suite 450
City: Alpharetta State: SC Zip: 30005-0000
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Anderson
Name:
Street Address: Lewis Drive
City: Anderson Zip: 29627-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-47
Bentonite seal 4-8' bgs

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: MW-11117

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 9-14-17
20 ft Date Completed: 9-14-17

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2-inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 10 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2-inch
Slot/Gauge: 0.010-inch Length: 10 feet
Set Between: 10 ft. and 20 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8 ft. to 20 ft.
Effective size #1 Uniformity Coefficient sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From ground surface ft. to 4 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Terry R. Creasman Jr. **CERT. NO.:** 2116
Address: (Print) 30 Grant Park Place, Piedmont, SC 29673
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 864-288-1988 Fax No.: 864-288-2272

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ (Well Driller) Date: 11/9/17

If D Level Driller, provide supervising driller's name:
William Barnes, #562-A

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

CH2M
6600 Peachtree Dunwoody Rd
400 Embassy Row, Suite 600
Atlanta, GA

Telephone: 770-604-9095
Fax: 770-604-9183

WELL NUMBER MW-48B

CLIENT Plantation Pipe Line Company
PROJECT NAME Lewis Drive Remediation
PROJECT NUMBER 684910
PROJECT LOCATION Belton, South Carolina
DATE STARTED 10/12/17 **COMPLETED** 10/18/17
GROUND ELEVATION 829.53 ft **HOLE SIZE** 10/3.75 inches
DRILLING CONTRACTOR AE Drilling, Piedmont, SC
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger/Wire Line/Air Rotary
AT TIME OF DRILLING ---
LOGGED BY M. Karafa **CHECKED BY**
AT END OF DRILLING ---
NOTES 63 ft bgs switched from HSA to rotary/mobile drill B57
AFTER DRILLING 23.95 ft / Elev 805.58 ft btoc

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0							
5	SPT 1	100	3-5-7-11 (12)		SILTY SAND- silty sand (SM), 2.5YR 5/8 red, 2.5Y 7/6 yellow, mottled dry, fine grained, dense 6.0 823.5	PID = 0	
10	SPT 2	100	2-5-5-6 (10)		SILTY SAND- silty sand (SM), 2.5YR 5/8 red, 2.5Y 7/6 yellow, 2.5Y 7/1 light grey, mottled, dry, fine grain, dense 11.0 818.5	PID = 0	4" Steel Casing
15	SPT 3	100	2-2-3-6 (5)		SILTY SAND- silty sand (SM), 10YR 7/8 yellow, 10YR 5/6 yellowish brown, 10YR 7/4 pale brown, black, damp, fine grain, soft, banded, micaceous, saprolite 16.0 813.5	PID = 0	
20	SPT 4	100	3-3-4-7 (7)		SILTY SAND- same as above, weathered rock, 20.5'-21' has quartz and feldspar 21.0 808.5	PID = 0	
25	SPT		2-3-4-7		SILTY SAND- same as above		

(Continued Next Page)

CH2M
6600 Peachtree Dunwoody Rd
400 Embassy Row, Suite 600
Atlanta, GA

Telephone: 770-604-9095
Fax: 770-604-9183

WELL NUMBER MW-48B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
25	5	100	(7)		SILTY SAND- same as above *(continued)* 26.0 / 803.5	PID = 0	
30	SPT 6	67	3-5-8-8 (13)		SILTY SAND- same as above, wet, at 30'10"-31' subangular quartz fragments up to .25" diameter 31.0 / 798.5	PID = 0.2	
35	SPT 7	100	3-1-2-3 (3)		CLAYEY SAND- clayey sand (SC) with some gravel, 10YR 7/8, black and white, 7.5YR 6/6 reddish yellow, wet, fine grain, soft, strong, banded saprolite 36.0 / 793.5	PID = 1	Portland I/II with 3-5% Bentonite
40	SPT 8	33	4-5-8-11 (13)		CLAYEY SAND- clayey sand (SC), 7.5YR 6/6 reddish yellow, light grey, 2.5Y 7/6 reddish yellow, black, wet, fine grain, dense, micaceous banding, saprolite last 3" with pea green tint in color 41.0 / 788.5	PID = 1.7	
45	SPT 9	71	4-7-7-9 (14)		CLAYEY SAND- same as above, no green tint 46.0 / 783.5	PID = 0	
50	SPT 10	83	2-10-12 (12)		SILTY SAND- silty sand (SM), 2.5Y 5/3 light olive brown, wet, fine grain, soft, banded, micaceous, saprolite, some weathered quartz in top of spoon 51.0 / 778.5	PID = 2.2	

(Continued Next Page)

CH2M
6600 Peachtree Dunwoody Rd
400 Embassy Row, Suite 600
Atlanta, GA

Telephone: 770-604-9095
Fax: 770-604-9183

WELL NUMBER MW-48B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
55	SPT 11	100	8-10-16-22 (26)		SILTY SAND- silty sand (SM), 2.5Y 5/3 light olive brown, from 54-55'4" 10YR 5/4 yellowish brown, white, 10YR 6/4 light yellowish brown, iron stainng at 55'4" to 56', wet, fine grain, dense, banded micaceous, saprolite	PID = 2.5	
					56.0 / 773.5		
60	SPT 12	46	31-32-50 (82)		SILTY SAND- same as 55'4"-56'	PID = 2.2	
					61.0 / 768.5		
65	RC 1	100 (89)			BEDROCK- biotite gneiss, very strong, dark grey, light grey foliation, fresh, competent, slightly fractured, 63'2" to 63'5" moderately decomposed, slight disintegrated, iron staining	PID = 0	
					66.5 / 763.0		
70	RC 2	100 (85)			BEDROCK- same as above, begin air rotary at 71.5'	PID = 0	
					71.5 / 758.0		
75	AU 1				BEDROCK- biotite gneiss, quartz, biotite, dry, dust, powder	PID = 0	
					76.5 / 753.0		
80	AU 2				BEDROCK- same as above	PID = 0	Open Borehole
					81.5 / 748.0		
					BEDROCK- same as above	PID = 0	

(Continued Next Page)

CH2M
6600 Peachtree Dunwoody Rd
400 Embassy Row, Suite 600
Atlanta, GA

Telephone: 770-604-9095
Fax: 770-604-9183

WELL NUMBER MW-48B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
85	AU 3				BEDROCK- same as above *(continued)*		
					86.5 743.0		
	AU 4				BEDROCK- same as above	PID = 0	
90					91.5 738.0		
					Refusal at 63.0 feet.	PID = 0	
					Bottom of borehole at 91.5 feet.		

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Plantation Pipeline (last) (first)
Address: 1000 Windward Concourse, Suite 450
City: Alpharetta State: SC Zip: 30005-0000
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Anderson
Name:
Street Address: Lewis Drive
City: Anderson Zip: 29627-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-48B
Open hole well

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: MW-11117

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-12-17
91 ft. Date Completed: 10-18-17

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4-inch
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
4 in. to 71 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: No screen Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From ground surface ft. to 71 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Terry R. Creasman Jr. **CERT. NO.:** 2116
Address: (Print) 30 Grant Park Place
Piedmont, SC 29673
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 864-288-1988 Fax No.: 864-288-2272

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ Well Driller Date: 11/9/17

If D Level Driller, provide supervising driller's name:
William Barnes, #562-A

WELL NUMBER MW-49

CH2M HILL
6600 Peachtree Dunwoody Road, 400 Embassy Row, Suite 600
Atlanta, GA 30328

CLIENT Plantation Pipe Line Company
PROJECT NAME Lewis Drive Remediation
PROJECT NUMBER 684910
PROJECT LOCATION Belton, South Carolina
DATE STARTED 9/14/17 **COMPLETED** 9/14/17
GROUND ELEVATION 843.65 ft **HOLE SIZE** 8.5 inches
DRILLING CONTRACTOR AE Drilling, Piedmont, SC
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 8040DT with 4.25-in ID HSA
AT TIME OF DRILLING —
LOGGED BY M. Karafa **CHECKED BY**
AT END OF DRILLING —
NOTES
AFTER DRILLING —

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0									
5	SPT 1	83	4-4-4-4 (8)	Collected sample MW-49-4-6 and MW-49-4-6-FD for BTEX and Naphthalene	SM		(SM) SILTY SAND (SM), 10YR 6/8 brownish yellow, dry, fine grained, loose, micaceous 6.0 837.7	PID = 130.5	Portland I/II with 3-5% Bentonite
10	SPT 2	75	2-2-3-5 (5)		SM		(SM) SAME AS ABOVE 11.0 832.7	PID = 13.1	3/8" Bentonite Chips
15	SPT 3	100	1-3-5-6 (8)		SM		(SM) SAME AS ABOVE: moist to very moist 16.0 827.7	PID = 4.5	GP#1 Sand 0.010 Slot Sch40 PVC
20	SPT 4	100	3-4-5-6 (9)		SM		(SM) SAME AS ABOVE: wet 21.0 822.7	PID = 184	Flat bottom cap

Bottom of borehole at 21.0 feet.

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Plantation Pipeline (last) (first)
Address: 1000 Windward Concourse, Suite 450
City: Alpharetta State: SC Zip: 30005-0000
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Anderson
Name:
Street Address: Lewis Drive
City: Anderson Zip: 29627-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-49
Bentonite seal 2-4' bgs

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: MW-11117

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 9-14-17
21 ft. Date Completed: 9-14-17

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2-inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 6 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2-inch
Slot/Gauge: 0.010-inch Length: 15 feet
Set Between: 6 ft. and 21 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 4 ft. to 21 ft.
Effective size #1 Uniformity Coefficient sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From ground surface ft. to 2 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Terry R. Creasman Jr. **CERT. NO.:** 2116
Address: (Print) 30 Grant Park Place, Piedmont, SC 29673
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: ~~864-288-1966~~ Fax No.: 864-288-2272

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ (Well Driller) Date: 11/9/17

If D Level Driller, provide supervising driller's name:
William Barnes, #562-A

CH2M
6600 Peachtree Dunwoody Rd
400 Embassy Row, Suite 600
Atlanta, GA

Telephone: 770-604-9095
Fax: 770-604-9183

WELL NUMBER MW-50B

CLIENT Plantation Pipe Line Company
PROJECT NAME Lewis Drive Remediation
PROJECT NUMBER 684910
PROJECT LOCATION Belton, South Carolina
DATE STARTED 10/5/17 **COMPLETED** 10/17/17
GROUND ELEVATION 847.11 ft **HOLE SIZE** 10/3.75 inches
DRILLING CONTRACTOR AE Drilling, Piedmont, SC
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger/Wire Line/Air Rotary
AT TIME OF DRILLING —
LOGGED BY M. Karafa **CHECKED BY**
AT END OF DRILLING —
NOTES 82 ft bgs switched from HSA to rotary/mobile drill B57
AFTER DRILLING —

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
0							
5	SPT 1	100	4-5-7-8 (12)		CLAYEY SAND- (SC), 2.5YR 5/6 red with 10YR8/4 very pale brown, mottled, dry, fine grain, dense, micas 6.0 841.1	PID = 0	
10	SPT 2	100	2-4-5-6 (9)		CLAYEY SAND- same as above, silty sand 11.0 836.1	PID = 0	4" Steel Casing
15	SPT 3	100	3-2-5-5 (7)		SILTY SAND- (SM), 2.5Y 6/6 light red, olive yellow, dry, medium density, fine grain, large banding, micaceous, saprolite 16.0 831.1	PID = 0	
20	SPT 4	88	2-3-3-5 (6)		SILTY SAND- (SM), 2.5Y 6/4 light yellow, light brown, damp, fine grain, medium dense, banded, micaceous 21.0 826.1	PID = 0	
25	SPT		1-1-2-3		SILTY CLAY- (CL), 2.5Y 7/8 yellow, 2.5YR 5/6 red, wet, fine grain, soft, banded	PID = 0	

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WELL NUMBER MW-50B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
25	5	100	(3)		SILTY CLAY- (CL), 2.5Y 7/8 yellow, 2.5YR 5/6 red, wet, fine grain, soft, banded *(continued)*		
					26.0 821.1		
30	SPT 6	100	2-2-3-6 (5)		SILTY SAND- (SM), white, 10YR 5/3 brown, wet, fine grain, soft, banded micaceous, weathered quartz grains	PID = 0	
					31.0 816.1		
35	SPT 7	100	2-3-5-8 (8)		SILTY SAND- same as above with 34'7"-35' same as 24'-26' and 35'3"-35'9" same as 19'-21'	PID = 0	
					36.0 811.1		
40	SPT 8	100	2-2-2-5 (4)		SANDY CLAY- (CL), 10YR 6/8 brownish yellow, white, wet, fine grain, mod dense, banded	PID = 0	
					41.0 806.1		
45	SPT 9	88	2-3-6-7 (9)		SANDY CLAY- same as above, some weathered quartz with white bands	PID = 0.2	
					46.0 801.1		
50	SPT 10	100	3-6-6-7 (12)		SANDY CLAY- same as above	PID = 0.3	Portland I/II with 3-5% Bentonite
					51.0 796.1		

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WELL NUMBER MW-50B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
55	SPT 11	100	3-5-6-7 (11)		SANDY CLAY- same as above, no white bands	PID = 0.2	
					56.0 791.1		
60	SPT 12	88	6-7-10-13 (17)		CLAYEY SAND- (SC), 10YR 6/8 brownish yellow, wet, fine grain, dense, trace gravel	PID = 0	
					61.0 786.1		
65	SPT 13	88	3-6-8-9 (14)		CLAYEY SAND- same as above	PID = 0	
					66.0 781.1		
70	SPT 14	100	5-8-7-8 (15)		CLAYEY SAND- same as above from 69'-70'6". Silty sand (SM) from 70'6"-70'9" with 10YR 6/6, wet, fine to coarse grain quartz gravel. 70'9"-71' is silty sand (SM), 10YR 4/3 brown, wet, fine grain, thin bands, micaceous, saprolite	PID = 0	
					71.0 776.1		
75	SPT 15	75	4-4-7-11 (11)		SILTY SAND- (SM), 10YR 4/3 brown, 10YR 5/3 yellowish red, wet, fine grain, dense, banded	PID = 0	
					76.0 771.1		
80	SPT 16	100	8-11-50-50 (61)		SILTY SAND- (SM), 5Y 6/4 pale olive with 2.5Y 5/6 olive brown, damp, fine grain, banded, weathered rock at bottom of spoon	PID = 0.2	
					81.0 766.1		
						PID = 0	

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WELL NUMBER MW-50B

CLIENT Plantation Pipe Line Company **PROJECT NAME** Lewis Drive Remediation

PROJECT NUMBER 684910 **PROJECT LOCATION** Belton, South Carolina

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA	WELL DIAGRAM
85	RC 1	67 (17)			BEDROCK- biotite gneiss, strong, fresh, medium dark, grey and white, some iron straining, foliated, slightly decomposed, fractured intently *(continued)*		
					86.4 760.7		
90	RC 2	100 (100)			BEDROCK- biotite gneiss, strong, very dark grey and white, biotite, quartz, intensely foliated, fresh, unfractured, quartz pegmatite at 88'9"-89'	PID = 0	
					91.4 755.7		
95	RC 3	100			BEDROCK- same as above	PID = 0	
					96.4 750.7		
100	AU 4				BEDROCK- biotite gneiss, biotite, quartz, powder, dry to 102'5", wet 100.5' to 101'	PID = 0	
					101.4 745.7		← Open Borehole
105	AU 5				BEDROCK- biotite gneiss, biotite quartz, wet	PID = 0	
					106.4 740.7		

Refusal at 82.0 feet.
Bottom of borehole at 106.4 feet.

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Plantation Pipeline (last) (first)
Address: 1000 Windward Concourse, Suite 450
City: Alpharetta State: SC Zip: 30005-0000
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Anderson
Name:
Street Address: Lewis Drive
City: Anderson Zip: 29627-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: MW-50B Open hole well		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: MW-11247

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-5-17
106 ft. Date Completed: 10-17-17

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4-inch
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
4 in. to 96 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: No screen Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☑ No Bacterial Analysis ☐ Yes ☑ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From ground surface ft. to 96 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Terry R. Creasman Jr. **CERT. NO.:** 2116
Address: (Print) 30 Grant Park Place
Piedmont, SC 29673
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 864-288-1980 Fax No.: 864-288-2272

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ Date: 11/9/17
Well Driller

If D Level Driller, provide supervising driller's name:
William Barnes, #562-A

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**