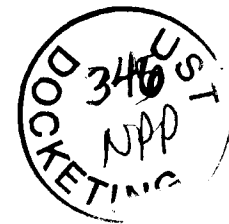




April 13, 2020

Delivered via FedEx Overnight Delivery

Mr. Jeffery E. Mendenhall
South Carolina Department of Health and Environmental Control
Assessment Section, UST Management Division
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201



Subject: Request for Well Permit to Install Additional Monitoring Wells
Plantation Pipe Line Company
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693, "Kinder Morgan Belton Pipeline Release"

Dear Mr. Mendenhall,

On behalf of Plantation Pipe Line Company (Plantation), Jacobs has prepared this correspondence to request a well permit to install two new groundwater monitoring wells screened in the residuum aquifer at the Lewis Drive Site in Belton, Anderson County, South Carolina (Site ID #18693). Refer to **Figure 1** for proposed well locations.

These wells are located on property owned by Mr. Patrick O'Dell. The general location and rationale for installing these wells was discussed and agreed to in email correspondence (from March 13 to April 7, 2020) between Plantation Pipe Line and EnviroSouth, representing Mr. Patrick O'Dell. The proposed monitoring wells and reasons for installation are presented as follows:

- **MW-62 and MW-63** - establish perimeter southwest and northwest of monitoring wells MW-56 and MW-57 since dissolved petroleum concentrations have been detected in these wells

Data collected from the newly installed monitoring wells will be used to further delineate the extent of hydrocarbons in the residuum aquifer at the site. Plantation requests to conduct the work during the second quarter of 2020.

Proposed Scope of Work

The following activities will be conducted:

- Install two groundwater monitoring wells (MW-62 and MW-63) screened in the residuum aquifer, as shown on **Figure 1**. The monitoring wells will be constructed in accordance with South Carolina Well Standards R.61-71 and as described below. Once completed, the locations and elevations of these monitoring wells will be professionally surveyed by a surveyor licensed in the state of South Carolina.

Well installation tasks are described in more detail in the following sections.

Well Installation and Development

Monitoring Wells

The monitoring wells will be installed by a certified well driller registered in the state of South Carolina and will be constructed in accordance DHEC Well Standards R.61-71. A Jacobs geologist will perform oversight during the drilling and will log the lithology of each borehole. Construction details for the monitoring wells are described below. In addition, details regarding well development are also described.

Monitoring wells MW-62 and MW-63 will be drilled using hollow stem auger (HSA) methods. The well will be constructed using 10 to 15 feet of 2-inch internal diameter (ID) Schedule 40 polyvinyl chloride (PVC) well screen and a variable amount of 2-inch ID Schedule 40 PVC riser. The screen will have a slot size of 0.010-inches, and the screen will be positioned to straddle the water table to allow LNAPL (if present) to enter the well, and to account for seasonal fluctuations of the water table. Sand pack will be placed in the annular space between the borehole and well screen and will be brought to a height 2-feet above the top of the well screen. A 2-foot thick bentonite seal will be placed above the sand pack and will be hydrated. The seal will hydrate for a minimum of 1 hour before placing grout above the seal. A grout seal containing Portland cement mixed with 3 to 5 percent bentonite will be placed above the bentonite seal and will be brought to within 1 foot of ground surface.

Well Surface Completions

The monitoring wells will be finished with flush mount completions. The wells will be constructed using a traffic rated watertight 8-inch diameter well vault set in a 2-foot square concrete pad.

Each well will be capped with a locking well cap. In addition, a name plate that contains the following information will be affixed to the well vault:

- Company name and certification number of the driller who installed the well
- Date the well was completed
- Total depth (feet)
- Casing depth (feet)
- Screen interval (feet)
- Well identification

Well Development

The well will be developed by the well driller using one or more of the following techniques:

- Airlift
- Surge block and well pump

The well will be developed until the water produced is clear and free of sediment.

If you have any further questions or concerns, please call me at (919) 859-5789, or Mr. Jerry Aycock/Plantation at (770) 751-4165.

Regards,



William M. Waldron, P.E.
Program Manager

Mr. Jeffery E. Mendenhall

April 13, 2020

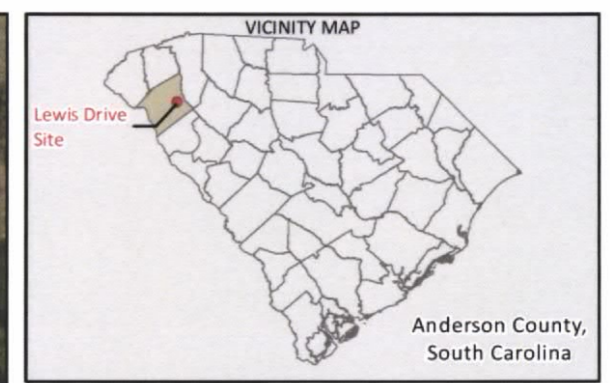
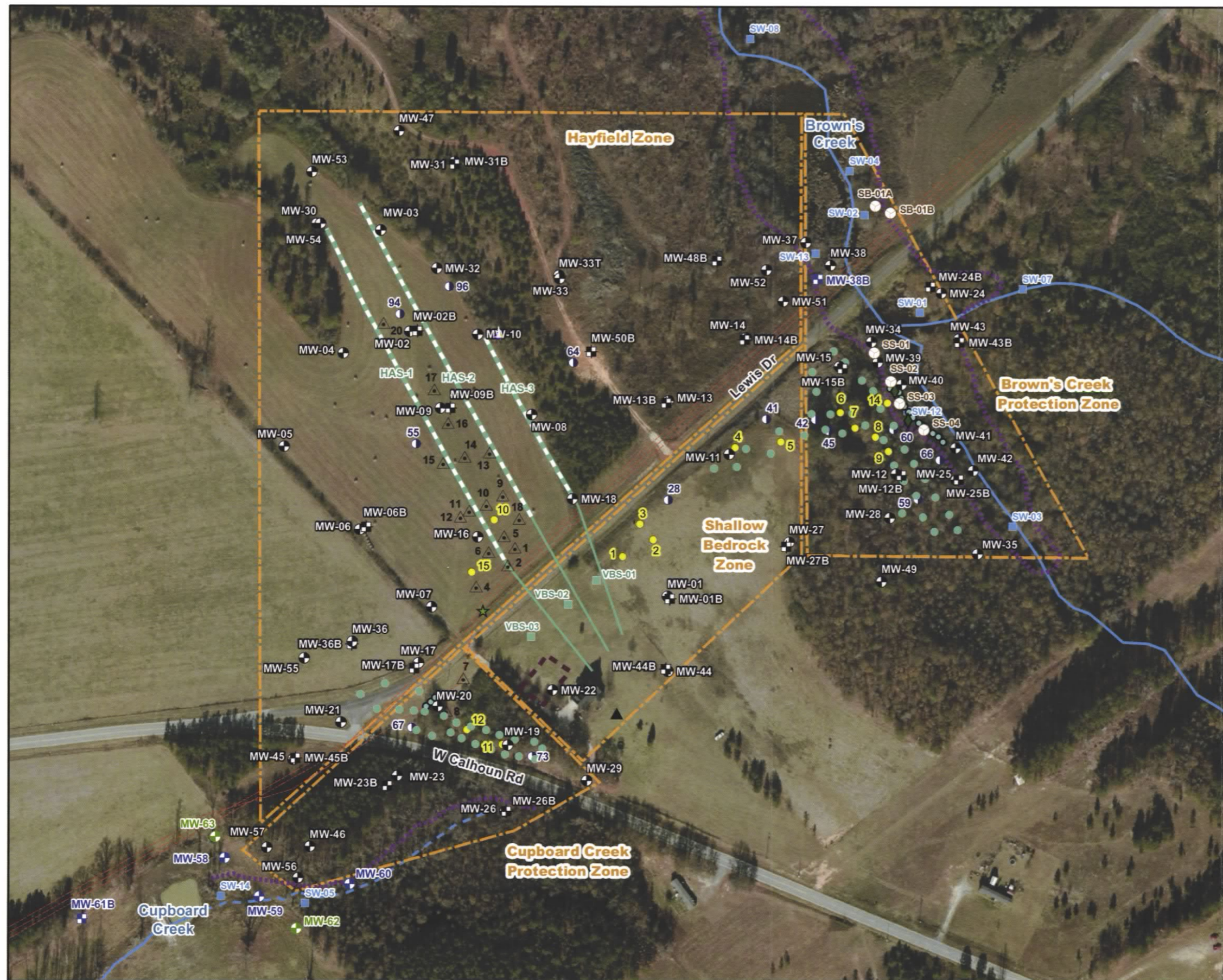
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JACOBS

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Tom Donn, EnviroSouth, Inc., (Digital, tdonn@envirosouth.com)

Attachments:

Figure 1 Site Overview



LEGEND

- ★ Release Point
- ⊕ Residuum Monitoring Well
- ⊕ Bedrock Monitoring Well
- ⊕ Approved Residuum Monitoring Well
- ⊕ Approved Bedrock Monitoring Well
- ⊕ Proposed Residuum Monitoring Well
- △ Recovery Sump
- Soil Boring Location
- Recovery Trench Point
- Recovery Well (4-inch diameter)
- Surface Water Sampling Location
- ▲ Septic Tank
- ◆ Seep Location
- Vertical Bedrock Sparging Well
- Vertical Saprolite Sparging Well
- Pipeline
- Horizontal Sparging Well Riser
- Horizontal Sparging Well Screen
- Waterbody
- - - Intermittent Stream
- ⋯ Inspection Route for Sheen or Distressed Vegetation
- ⊕ AS System Compound
- ⊕ Remediation Zone

Base Map Sources:
 *Environmental Systems Research Institute (Esri)
 ArcMap World Imagery, 2018. Basemap features are approximate.
 *United States Geological Survey (USGS) National Hydrography Dataset (NHD)

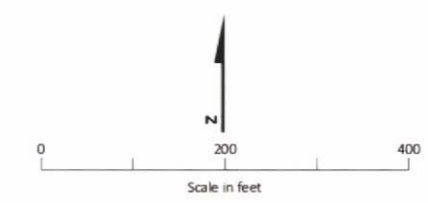


Figure 1. Site Overview
 Lewis Drive Remediation Site
 Belton, South Carolina
 Site ID #18693 "Kinder Morgan Belton Pipeline Release"