

July 23, 2024

Delivered via Trackable Overnight Delivery

Ms. Caitlin Reilly
South Carolina Department of Environmental Services
Bureau of Land and Waste Management, UST Management Division
Assessment and Non-Permitted Petroleum Section
2600 Bull Street
Columbia, South Carolina 29201

**Subject: Request for Well Permit to Install Observation Wells
Products (SE) Pipe Line Corporation
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693, "Kinder Morgan Belton Pipeline Release"**



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Dear Ms. Reilly,

On behalf of Products (SE) Pipe Line Corporation (PPL), Jacobs has prepared this correspondence to request a well permit to install three new groundwater observation wells screened in the residuum aquifer at the Lewis Drive Site in Belton, Anderson County, South Carolina (Site ID #18693). Proposed well locations are shown on **Figure 1**.

The general location and rationale for installing the observation wells was discussed and agreed to by the South Carolina Department of Environmental Services (DES) in a meeting held on March 1, 2024. The proposed observation wells TW-99, TW-100, and TW-101 will be used to monitor the effectiveness of horizontal air sparge well HAS-6 upon startup after the completion of the HAS-6 modification activities as outlined in the Corrective Action Plan Addendum #3, submitted to DES on May 2, 2024, and approved May 24, 2024.

1. Proposed Scope of Work

The proposed scope of work includes the installation of three groundwater observation wells (TW-99, TW-100, and TW-101) screened in the residuum aquifer, as shown on **Figure 1**. The observation 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 observation wells will be professionally surveyed by a surveyor licensed in the state of South Carolina.

2. Well Installation and Development

2.1 Well Installation

The observation wells will be installed by a certified well driller registered in the state of South Carolina and will be constructed in accordance with DES 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 observation wells are described below. In addition, details regarding well development are also described.

Observation wells TW-99, TW-100, and TW-101 will be drilled using direct push technology (DPT) methods. The wells will be constructed with 10 feet of 1-inch inner diameter (ID) 10-slot well screen and 5

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ft of 1-inch ID Schedule 40 PVC riser. The screen will be positioned to straddle the water table 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- feet 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.

2.2 Well Surface Completions

The observation wells will be finished as a flush mount completion. The flush mount wells will be constructed using watertight 6-inch diameter well vault set in a 1-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

2.3 Well Development

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

- Airlift
- Surge block and well pump

The wells 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 Greg Dempsey/PPL at (770) 751-4143.

Regards,

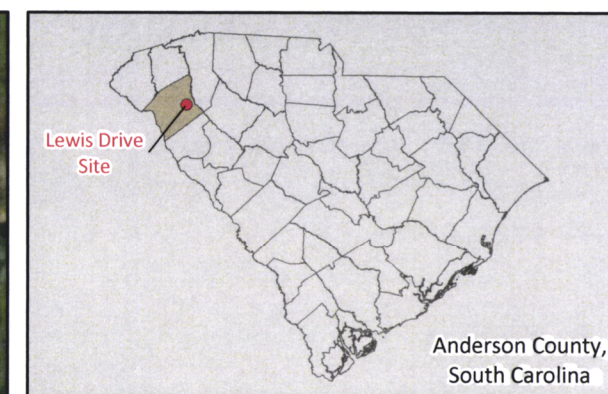
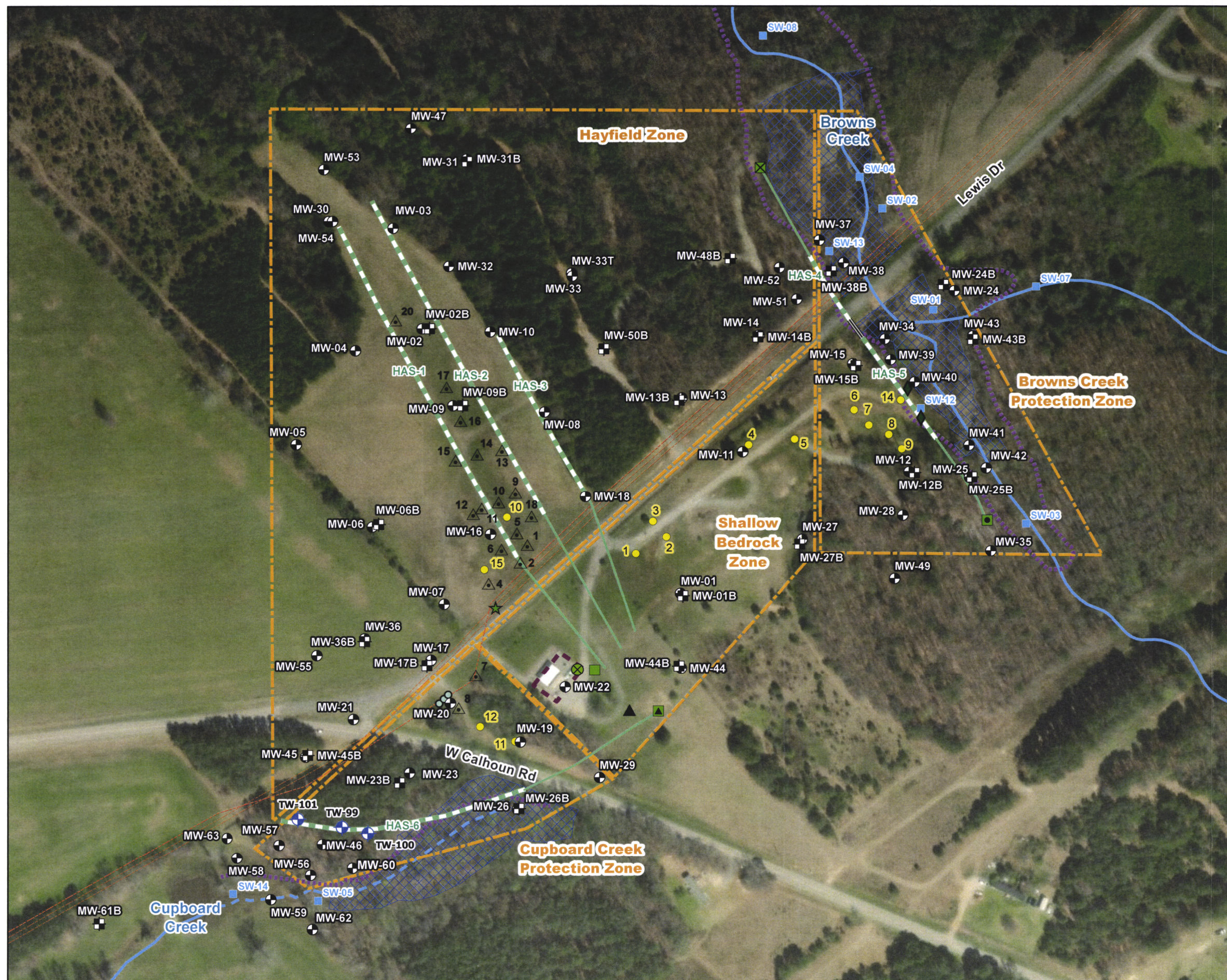


William M. Waldron
Program Manager

Copies to: Greg Dempsey, PPL (Digital, greg_dempsey@kindermorgan.com)
Mary Clair Lyons, Esq., PPL (Digital, Mary_Lyons@kindermorgan.com)

Attachment:
Figure 1 Site Overview

Figure 1
Site Overview



LEGEND

- ★ Release Point
- ⊙ Monitoring Well
- ⊞ Bedrock Monitoring Well
- ⊕ Proposed Well
- △ Recovery Sump
- Recovery Trench Point
- Recovery Well (4-inch diameter)
- Surface Water Sampling Location
- ▲ Septic Tank
- ◆ Seep Location
- Manway
- ⊗ Valve
- ⊗ HAS-1 Manway
- ⊗ HAS-4/HAS-5 Manway (Distal End)
- ⊗ HAS-4/HAS-5 Manway (Proximal End)
- ▲ HAS-6 Manway (Proximal End)
- Main Valve Box
- Grout
- Horizontal Sparging Well Screen
- Horizontal Sparging Well Riser
- Pipeline
- National Hydrography Dataset Stream
- Intermittent Stream
- Waterbody
- Intermittent Stream
- ⊞ Delineated Wetland
- Inspection Route for Sheen or Distressed Vegetation
- ⊞ AS System Compound
- ⊞ Remediation Zone

Base Map Sources:
Environmental Systems Research Institute (Esri)
ArcMap World Imagery, 2022. Basemap features are approximate.

United States Geological Survey (USGS) National Hydrography Dataset (NHD)

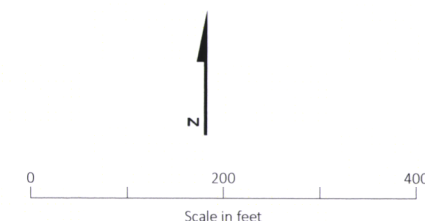


Figure 1. Site Overview
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693 "Kinder Morgan Belton Pipeline Release"