



South Carolina Department of Health and Environmental Control

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# CSXT Bramlett Road MGP Site Update

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# Site History

**1917**

Manufactured Gas Plant (MGP) built by Southern Public Utilities

**1935**

Duke Power became Owner

**1952**

MGP Ceased to Operate

**1958**

MGP Structures were Demolished

**1967**

Property Transferred to CSX Predecessor

**1970-1980**

MGP portion of the site used as a Trucking Facility

**Post-1980**

MGP portion was vacant

Bramlett Road Site 1959

Wetland/  
Pre-Landfill

MGP Site

E Bramlette Rd

Washington St



# Early Assessment History

**1992**

Duke Energy began assessing soil and groundwater on the MGP portion of the Site

**1993**

DHEC notified Robert Vaughn that the landfill was unpermitted and to cease operations

**1995**

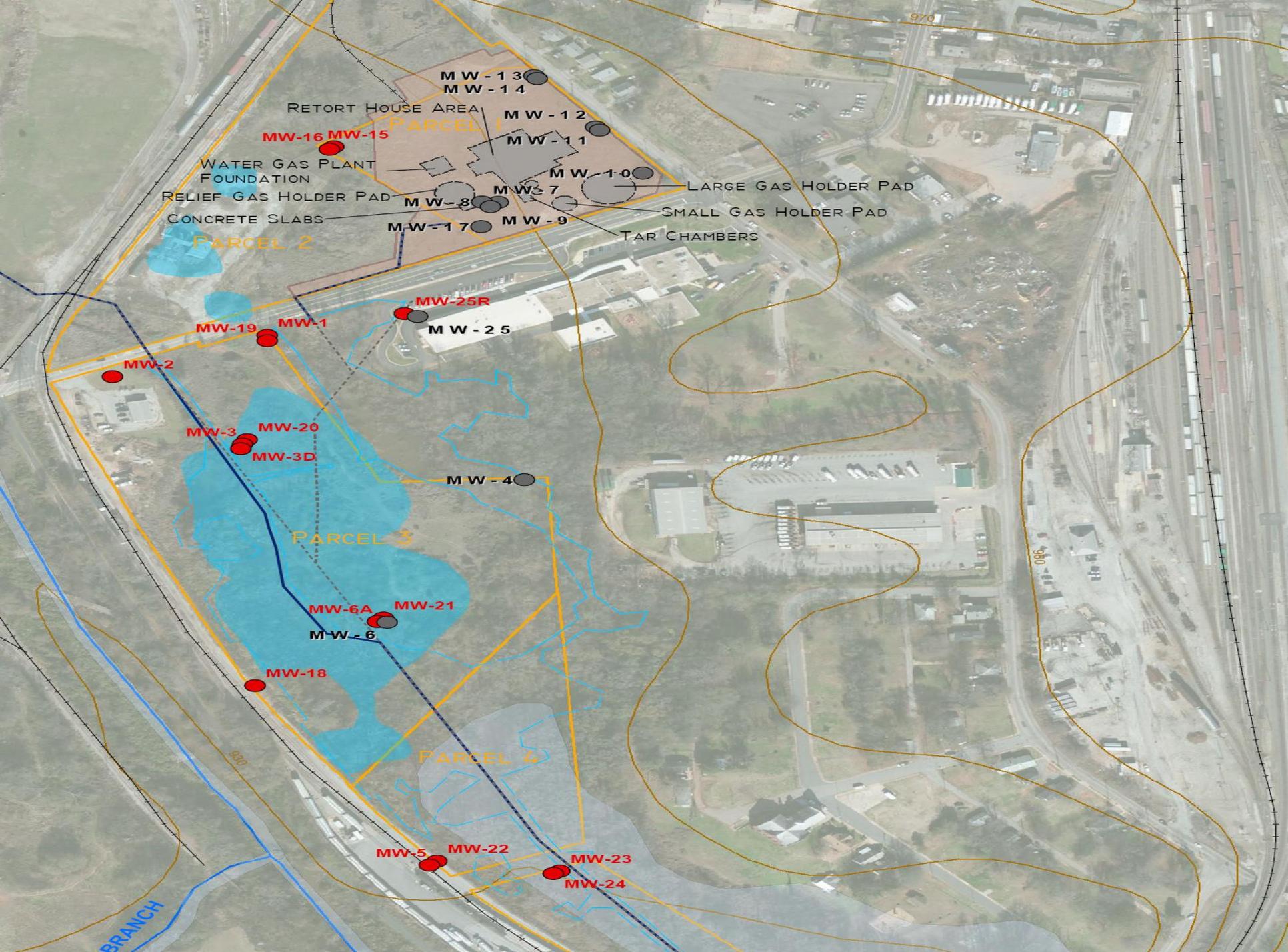
Investigation was conducted on the landfill portion of the Site

**1996**

8 monitoring wells installed

**1999**

18 additional monitoring wells installed



# Removal Action

## **2000-2001**

Removal Action at MGP property. Impacted soil was excavated from the MGP Site historical wastewater ditch north of Bramlett Road and Suburban Propane property. 66,000 tons removed.

## **2002-2016**

Groundwater monitoring began with reports submitted to DHEC on a semiannual basis. The Removal Action Report was completed in 2003. Groundwater Monitoring took place from 2003-2016.

Surface Exposure at  
MGP Site is Not a Risk  
Due to prior Removal  
Action

No Private Drinking  
Water Wells in Area

Risk  
Evaluation

Contaminated  
Material is Beneath  
the Landfill. Landfill  
Capped

City Water Not  
Impacted

# Voluntary Cleanup Contract

**2013**

DHEC sent a letter to CSX and Duke Energy requesting that they join the VCC Program

**2015**

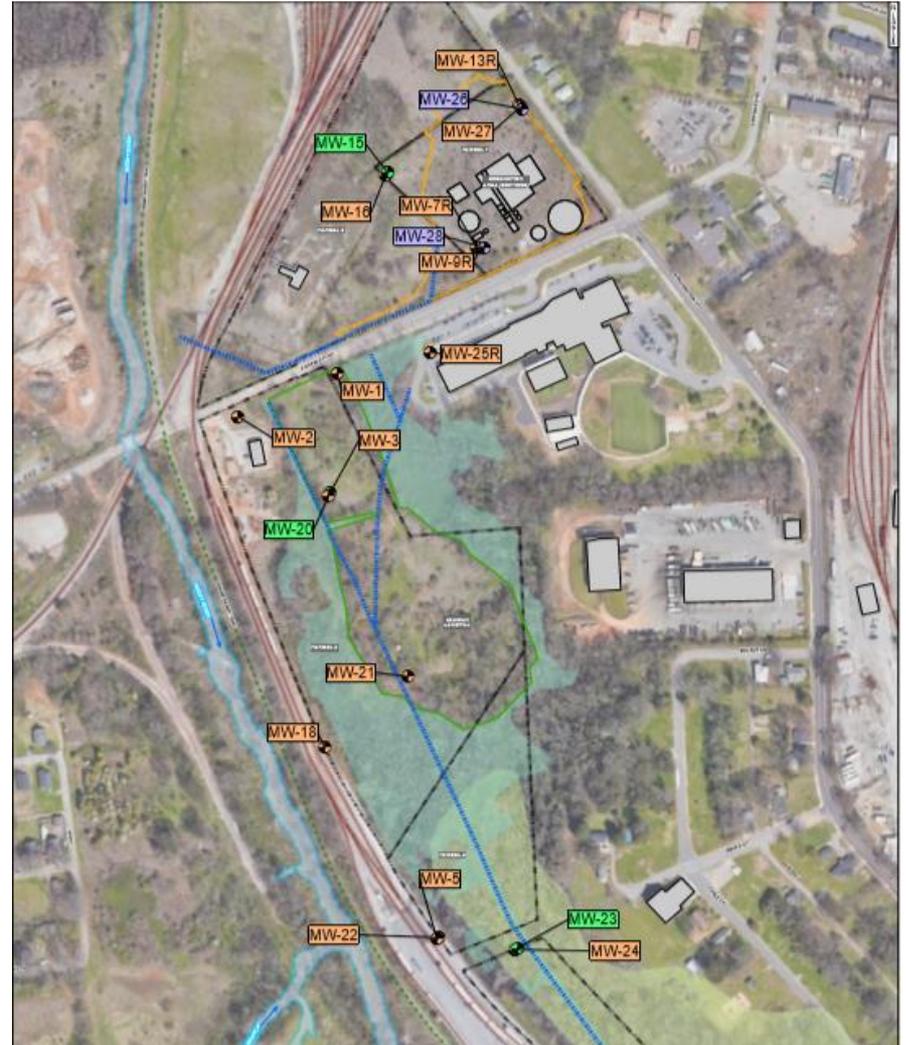
Duke Energy willing to enter VCC without CSX provided they can negotiate access to complete the assessment

**2016**

Responsible Party Voluntary Cleanup Contract 16-5857-RP executed by DHEC and Duke on July 29, 2016. Required Duke to conduct assessment and evaluate cleanup alternatives. Public Meeting held on October 4, 2016.

# Groundwater Remedial Investigation began in 2017

- Wells:
- 19



# Groundwater RI Work Conducted

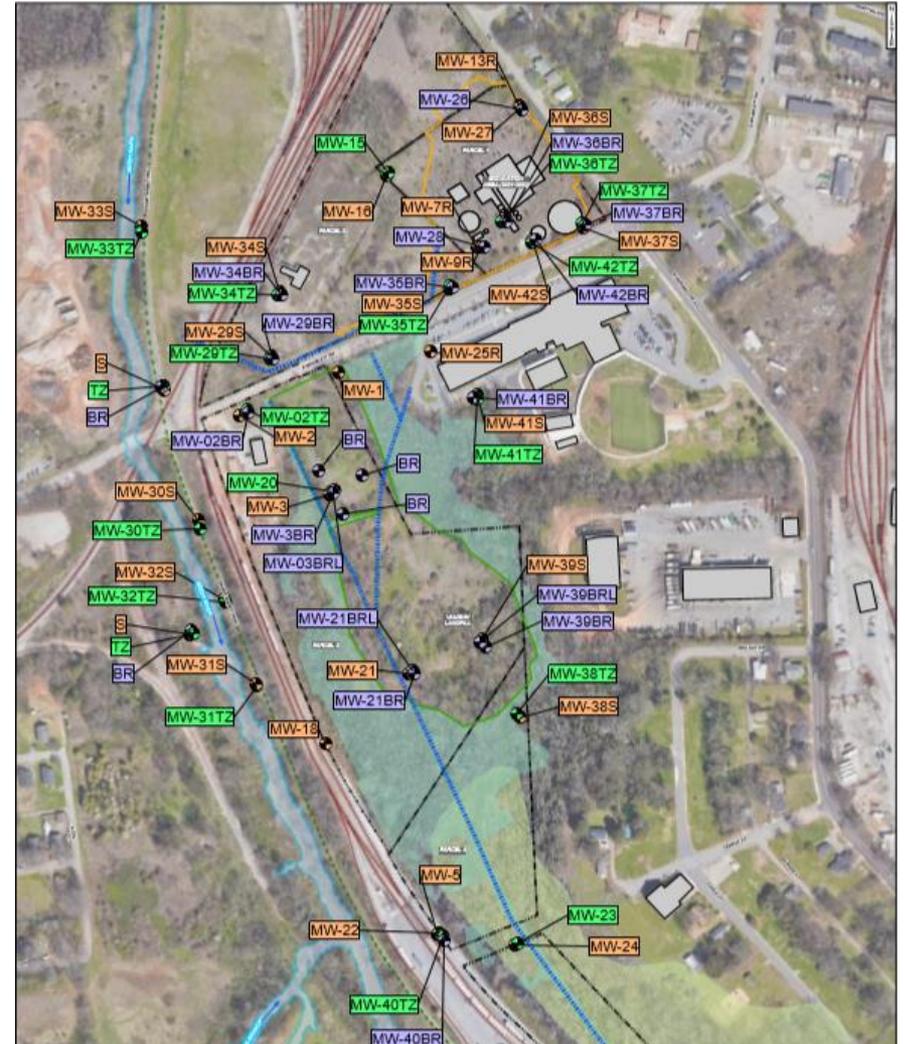
To Be Completed by  
Q1 2020

Wells completed:

- 61

Total Wells Expected:

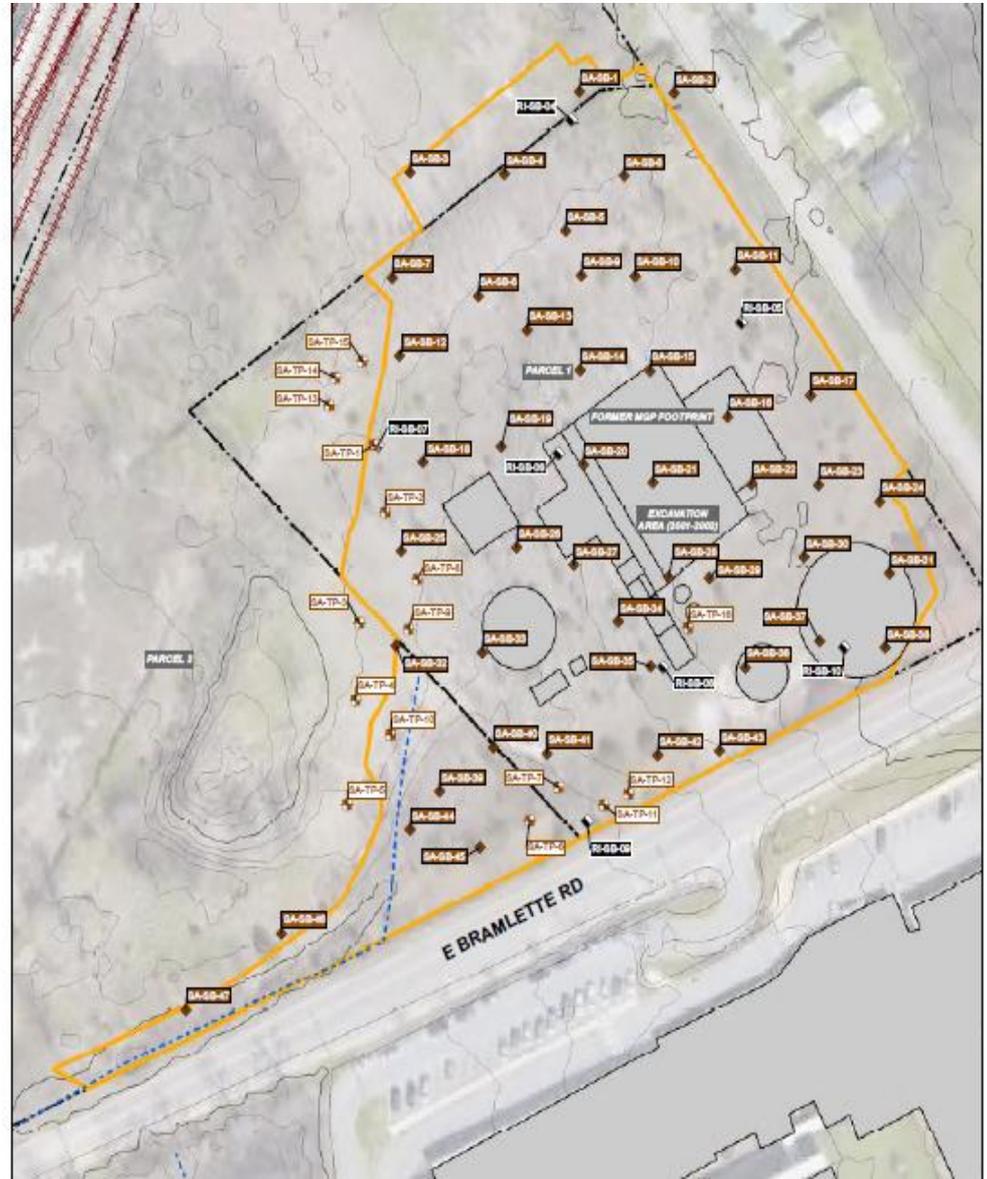
- 70



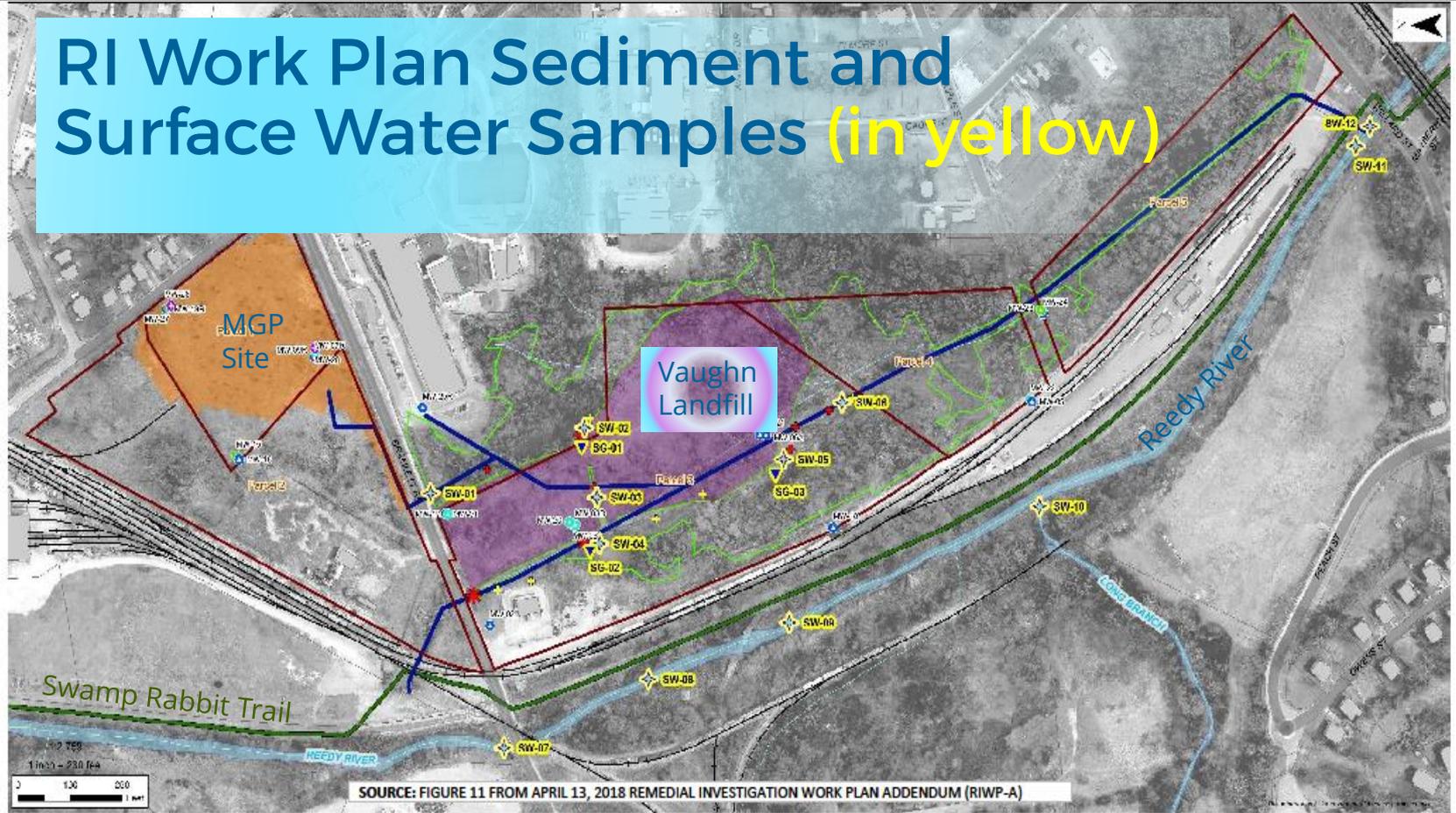
## RI Work Conducted

### Work in MGP Source Area:

- Completed subsurface geophysical survey
- Drilled 47 near surface soil borings
- 47 passive soil gas probes
- Excavated 16 test pits



# RI Work Plan Sediment and Surface Water Samples (in yellow)



SOURCE: FIGURE 11 FROM APRIL 13, 2018 REMEDIAL INVESTIGATION WORK PLAN ADDENDUM (RIWP-A)

- |  |   |  |  |
|--|---|--|--|
|  Former Drainage Ditch                |  Surface water sheen (12/2017)                   |  Surface Water / Sediment Samples |  Shallow        |
|  Excavated Area (2001-2002)           |  1995-1996 Sediment Sample                       |  Stream Gauge                     |  Mid Saprotite  |
|  Approximate Vaughn Landfill Boundary |  1995-1996 Sediment Sample with visible coal tar |  |  Deep Saprotite |
|  |   |  |  Bedrock        |

## Broad Street and Bramlett (Similarities)

Both MGP were discovered in 1988

Removals were conducted in the early 2000s

Bramlett 68,000 tons / Broad Street 54,000 tons

Broad Street VCC 2015, Bramlett VCC 2016

Bramlett 70 Wells / Broad 54 Wells (11)

## Broad Street and Bramlett Differences

Broad Street Depth to Rock 10-15 feet

Bramlett Depth to Rock 30-50 feet

Broad Street No Wetlands Issues

Bramlett contamination in wetland and under landfill

Broad Street had an NRP contract for redevelopment and has vapor mitigation and groundwater monitoring ongoing

# What happens next?

- Final Remedial Investigation Report (~July 2020)
- Public Meeting (Fall 2020)
- Vision for community and how cleanup will fit in with vision
- Evaluate cleanup alternatives/removal actions

# Questions?

- <https://www.scdhec.gov/Bramlett>
- Or search for Bramlett Road Site on DHEC website