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April 15, 2022

Mr. Greg Cassidy South Carolina Department of Health and Environmental Control Division of Site Assessment, Remediation, and Revitalization Bureau of Land and Waste Management 2600 Bull Street Columbia, South Carolina 29201

SUBJECT: Quarterly Progress Report – First Quarter 2022 Former Bramlette Manufactured Gas Plant 400 East Bramlette Road Greenville, South Carolina VCC 16-5857-RP

Dear Mr. Cassidy:

This Quarterly Progress Report pertaining to the Former Bramlette Manufactured Gas Plant (MGP) site has been prepared in accordance with the requirements of the Responsible Party Voluntary Cleanup Contract (VCC 16-5857-RP) between Duke Energy Carolinas, LLC (Duke Energy) and the South Carolina Department of Health and Environmental Control (SCDHEC), dated July 29, 2016. As required in the VCC, this Quarterly Progress Report summarizes:

- Work performed during the reporting period
- Test and sampling results generated during the reporting period
- Environmental problems experienced during the reporting period and their resolution
- Work to be performed during the next reporting period

The work was conducted in accordance with the following approved work plans:

- Remedial Investigation Work Plan Addendum (RIWP) approved on August 6, 2019
- Interim Surface Water Best Management Practice Work Plan approved on March 31, 2021

# Work Performed During this Reporting Period

Work performed associated with the first quarter (January 1 through March 31, 2022) is summarized in the table below. A site layout map is included as **Figure 1**.

Date	RI Activity
January through March 2022	Surface Water Best Management Practice (BMP) Inspections – Turbidity curtain, rock check dams and concrete cloth were inspected twice per month.
March 15, 2022	<b>Semiannual Monitoring Report</b> – A Semiannual Monitoring Report was submitted on March 15, 2022, and includes work conducted between July and December 2021. SCDHEC approved the report on March 21, 2022.
March 7 through March 15, 2022	<b>Groundwater and Surface Water Sampling</b> – Collected groundwater and surface water samples from 69 groundwater monitoring wells and from 17 surface water monitoring locations in accordance with the RIWP Addendum approved by SCDHEC August 6, 2019, and the September 2018 Quality Assurance Project Plan (QAPP) (SynTerra, 2018).

# Summary of Test and Sampling Results Generated During this Reporting Period

Test and sampling results for work performed during the first quarter (January 1 through March 31, 2022) are summarized below:

- Groundwater and surface water samples were analyzed for volatile organic compounds (VOCs) and semi-volatile compounds (SVOCs). Analytical results from these samples will be presented in the Semiannual Monitoring Report – Semiannual Monitoring Event #5, which is scheduled for submittal by July 1, 2022.
- Hydrographs of groundwater level measurements in wells instrumented with data logging pressure transducers are provided in **Figure 2** through **Figure 5**. Observations from these hydrographs include:
  - Groundwater elevation measurements since 2019 at the MW-29 well cluster indicate seasonality with highest elevations generally measured in March and lowest elevation in measured in October (Figure 2).
  - Groundwater elevations measured in MW-45BR show a sharp reduction and recovery in water level in March 2021, September 2021, October 2021 (resampling event due to laboratory fire) and March 2022. Those measurements correspond to removal and replacement of the transducer during groundwater monitoring events (Figure 3).
  - Groundwater elevation measurements since 2019 at the MW-3 well cluster indicate seasonality with highest elevation generally measured in March and lowest elevation measured in September (Figure 4).
  - Groundwater elevation measurements from monitoring wells located along the Swamp Rabbit Train correlate to Reedy River stage elevation, indicating connectivity between monitoring wells located adjacent to the Swamp Rabbit Trail and the Reedy River (Figure 5).

# Environmental Problems Identified During Reporting Period and their Resolution

No problems were identified during this reporting period.

# Work to be Performed During the Next Reporting Period (second quarter 2022)

The following activities are scheduled to be conducted during the second quarter of 2022 (April 1 through July 1, 2022). The proposed schedule is subject to change based on safe work practices, weather conditions, site access, availability of subcontractors, and other unforeseen delays. Field work notifications will be provided in accordance with the VCC and access agreements.

Proposed Date	RI Activity
April 4, 20200	Download and redeploy data logging pressure transducers – First quarter water level measurements downloaded from 16 transducers.
April 2022	Submit Quarterly Progress Report – First Quarter 2022
Quarter 2, 2022	Download and redeploy data logging pressure transducers
Quarter 2, 2022	Inspect and maintain Surface Water BMPs per approved work plan
July 1, 2022	Submit Semiannual Monitoring Report – Semiannual Monitoring Event #5 (March 2022)

If you have any questions regarding this submittal, please contact me at 980.373.2663 or by email at **Richard.Powell2@duke-energy.com**.

Sincerely,

Richard C. Powell

Richard E. Powell, P.G. Lead Environmental Specialist

Cc: Kevin Boland, CSXT Daniel Schmitt, Esq., CSXT Ty Houck, Greenville County William W. Brown, Legacy School Properties, LLC Todd Plating, SynTerra

ATTACHMENTS: Figure 1 – Site Layout Map Figure 2 – MW-29 Cluster Hydrographs Figure 3 – Vaughn Landfill Hydrographs Figure 4 – MW-3 Cluster Hydrographs Figure 5 – Reedy River Well Hydrographs **FIGURES** 







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