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**SITE ASSESSMENT,
REMEDICATION &
REVITALIZATION**

REMEDIAL INVESTIGATION WORK PLAN ADDENDUM

FORMER BRAMLETTE MGP SITE

JULY 2019

PREPARED FOR:



DUKE ENERGY CAROLINAS, LLC

PREPARED BY:





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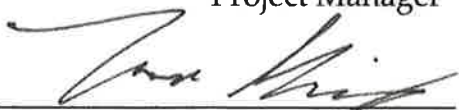
PREPARED FOR



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EXECUTIVE SUMMARY

Duke Energy Carolinas, LLC (Duke Energy) entered a Responsible Party Voluntary Cleanup Contract (VCC 16-5857-RP) with the South Carolina Department of Health and Environmental Control (SCDHEC) on July 26, 2016. The VCC pertains to the former Bramlette manufactured gas plant (MGP) and four contiguous parcels of property. Terms of the contract require a groundwater remedial investigation (RI) to:

- x Determine the source, nature, and extent of groundwater impacts resulting from past operation of the MGP
- x Submit a baseline risk assessment or other evaluation of human health and the environment
- x If requested by SCDHEC, submit a feasibility study (FS) or other evaluation of remedial alternatives

The purpose of this RI Work Plan Addendum (RIWP-A) is to describe additional focused investigation of the Bramlette MGP Site. RI activities at the Bramlette MGP were recently completed in accordance with the RIWP-A (dated April 13, 2018) for improving the Conceptual Site Model (CSM) and identifying areas where focused investigation will achieve requirements of the VCC.

After installation of 48 soil borings and six monitoring wells, the lithologic detail across the CSM is better understood. Non-aqueous phase liquids (NAPL) including oil-like material (OLM) and tar-like material (TLM) were identified, each with distinct mobility characteristics. Recent monitoring of groundwater, surface water, and sediment indicates that constituents in groundwater are not affecting the Reedy River.

Objectives of planned RI addendum activities are to:

- x Verify near-surface soil concentrations of constituents of interest (COI) within the MGP operations area (Parcel 1)
- x Delineate lateral extent of NAPL at Parcel 1 and Parcel 3 (area east of Vaughn landfill)
- x Delineate horizontal extent and vertical extent of COIs in groundwater
- x Quantify bedrock characteristics
- x Quantify mobility characteristics of NAPL