



December 17, 2021

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: Interim Surface Water Best Management Practice Construction Completion Report - VCC 16-5857-RP

Former Bramlette Manufactured Gas Plant
400 East Bramlette Road
Greenville, South Carolina

Dear Mr. Cassidy:

On behalf of Duke Energy, please find enclosed two hard copies and one electronic copy on compact disk of the referenced report.

If you have any questions, please contact Rick Powell with Duke Energy at (980) 373-2663 or at Richard.powell2@duke-energy.com.

All the best,

SynTerra

A handwritten signature in black ink, appearing to read "Todd Plating".

Todd Plating, PG (SC 2620)

Principal Geologist

Cc: Kevin Boland, CSXT
Daniel Schmitt, Esq., CSXT



INTERIM SURFACE WATER BEST MANAGEMENT PRACTICE CONSTRUCTION COMPLETION REPORT

**FORMER BRAMLETTE MGP SITE
400 EAST BRAMLETTE RD.
GREENVILLE, SC 29601
VCC 16-5857-RP**

DECEMBER 2021

PREPARED FOR

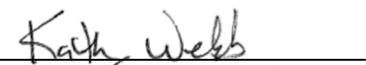
DUKE ENERGY CAROLINAS, LLC



Todd Plating, PG 2620
Principal Geologist



Tom King
Project Geologist



Kathy Webb, PG
Senior Peer Review

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Interim Surface Water Best Management Practice Construction Completion Report

Former Bramlette MGP Site

Greenville, South Carolina

LIST OF ACRONYMS

BMP	Best Management Practice
CCI	Contaminant Control Inc.
Duke Energy	Duke Energy Carolinas, LLC
MGP	Manufactured Gas Plant
SCDHEC	South Carolina Department of Health and Environmental Control
Site	Former Bramlette Manufactured Gas Plant
PCN	Pre-Construction Notification
USACE	United States Army Corps of Engineers
Work Plan	Interim Surface Water Best Management Practice Work Plan

1.0 INTRODUCTION

SynTerra prepared this Interim Surface Water Best Management Practice Construction Completion Report pertaining to the former Bramlette Manufactured Gas Plant (MGP, Site) on behalf of Duke Energy Carolinas, LLC (Duke Energy).

Geosyntec Consultants (Geosyntec) prepared and submitted the Interim Surface Water Best Management Practice Work Plan (Work Plan) to South Carolina Department of Health and Environmental Control (SCDHEC) on March 26, 2021. SCDHEC approved the Work Plan on March 31, 2021. Installation of interim Best Management Practices (BMPs) – including a turbidity curtain, rock check dams, and concrete cloth – was completed on October 19, 2021. Routine inspection and maintenance of BMPs began on October 29, 2021, and are performed twice per month.

The purpose of this Construction Completion Report is to document construction completion of interim surface water BMPs at the Site. This report provides introductory information followed by construction completion information, including:

- Construction chronology
- Regulatory permitting and approval
- Construction activities
- Operational information

The report concludes with a description of recommended inspection and maintenance activities.

1.1 Site Description

The Site is comprised of five parcels owned by CST, Inc. that cover approximately 30 acres and a wetland area on property owned by the Legacy Charter School. The Site is bounded generally by the CSX Transportation railroad corridor to the north, west, and south, and by West Washington Street, the Legacy Charter School, and the City of Greenville Sanitation Department to the east.

The Reedy River and Swamp Rabbit Trail define the western boundary of the Site (**Figure 1-1**). Surface water features within and adjacent to Parcels 3, 4, and 5 include drainage ditches, jurisdictional wetlands, and the Reedy River. Surface water within the wetlands to the northeast of the Vaughn Landfill (Parcel 3) flows west through a 30-inch concrete culvert bisecting the Vaughn Landfill, before flowing south toward the Reedy River. Surface water continues to travel south within a ditch system through Parcel 4

and Parcel 5 before discharging into a rip rap lined ditch located at the southern end of the Transflo property before discharging into the Reedy River near the southwest corner of Parcel 5 (**Figure 1-1**).

On October 19, 2020, during a Site walk, Geosyntec, SynTerra, and Duke Energy observed the following that resulted in the recommendation to install surface water BMPs:

- In the wetlands adjacent to the northeast boundary of the Vaughn landfill (Parcel 3), seeps were observed in some areas where the source of the seeps appeared to include coal tar residual impacts.
- A surface sheen that appeared to be a mixture of coal tar residuals, biofilm, and iron oxides floating on the water surface was also observed.
- The surface biofilm was also observed to the west and southwest of the 30-inch concrete culvert. This finding, combined with the observed and historical drainage patterns on-Site, indicates the potential for transport of coal tar residuals, biofilm, and sediments via the existing ditch system on Parcel 4 and Parcel 5.

1.2 Surface Water Interim BMPs

Two surface water features were identified that would benefit from the implementation of BMPs to reduce potential of coal tar residuals, biofilm, and sediment migration. The locations of the two features are summarized below:

- A surface water drainage ditch that bisects Parcel 3. The drainage ditch conveys surface waters from wetlands immediately adjacent to the northeast boundary of the Vaughn Landfill (**Figure 1-1**).
- A surface water drainage ditch on Parcel 5 upstream of the Reedy River and a rip rap lined ditch located at the southern end of the Transflo property (**Figure 1-1**).

2.0 INTERIM BMP CONSTRUCTION COMPLETION

SynTerra provided the approved work plan and construction specifications to six qualified potential contractors to construct the surface water BMPs. A site walk for prospective bidders was completed on May 18, 2021. Three bids were received and evaluated based on price, schedule, ability to self-perform work, methods, and prior experience. Contaminant Control, Inc. (CCI) was selected to construct the surface water BMPs in accordance with the approved work plan. CCI is a licensed contractor in the state of South Carolina and authorized to work within the Greenville, SC city limits. SynTerra and Geosyntec provided construction activity oversight.

Permits related to construction within a floodway, wetland, the county of Greenville, or the City of Greenville, were evaluated and obtained prior to initiating construction activities. CCI mobilized to the Site on September 14, 2021. A turbidity curtain was installed in the ditch bisecting the Vaughn Landfill on Parcel 3, rock check dams were installed within the ditch on Parcel 5, and concrete cloth was installed in the ditch adjacent to Willard Street. Areas disturbed during construction activities were stabilized using hydroseed to establish a vegetative cover. Construction was deemed complete on October 20, 2021. The City of Greenville completed final inspections to close out city permits on November 3, 2021.

2.1 Regulatory Permitting and Approval

The United States Army Corps of Engineers (USACE), and the City of Greenville issued permits prior to BMP installation. Permitting with Greenville County was not required to install the BMPs. Permits required for BMP installation are summarized below.

2.1.1 Nationwide Permit 38

Environmental Resource Management (ERM) submitted a Pre-Construction Notification (PCN) (SAC – 2020-01267) to the USACE on December 17, 2020. That PCN was approved on January 27, 2021. The permit was applicable to assessing the ditches present on Parcel 3, Parcel 4, and Parcel 5 and the installation of BMPs. The nationwide permit remains open pending potential future work in this area. The Nationwide Permit 38 was included with the submittal of the Work Plan.

2.1.2 SCDHEC Non-Coastal County Less Than 1 Acre Notification

SynTerra submitted a notification to SCDHEC on August 18, 2021. SCDHEC acknowledged the notification on August 18, 2021. The notification was applicable to installation of BMPs. Because the submittal was a notification, no

closure was required. The SCDHEC notification and correspondence are included in **Appendix A**.

2.1.3 City of Greenville Commercial Site Application

Geosyntec submitted a Commercial Site Application to the City of Greenville on July 14, 2021. The plan was approved with conditions on July 14, 2021. Based on the plans, the following permits for applicable BMP installation were issued:

- City of Greenville land disturbance permit (minor)
- City of Greenville stormwater permit (major)

CCI obtained the permits on September 13, 2021. The Commercial Site Application, permits, and final inspection results are included in **Appendix A**.

2.2 Construction Chronology

Construction activities began at the upstream location in Parcel 3 with the installation of the turbidity curtain. Moving downstream, the check dams were constructed in the primary ditch in Parcel 5 followed by the improvements to the rip rap lined ditch south of the Transflo property. Construction chronology is detailed below:

Date	Task
September 14, 2021	Mobilization
September 15, 2021	Completed installation of turbidity curtain in drainage channel through the Vaughn Landfill on Parcel 3
September 27, 2021	Completed rock check dam construction in Ditch 4
September 28, 2021	Removal of rip rap in ditch near Willard Street for concrete cloth installation
October 15, 2021	Completed installation of concrete cloth in rip rap ditch
October 19, 2021	Demobilization
October 20, 2021	Stabilized disturbed areas with hydro seed

2.3 Design Changes and Field Modifications

Minor changes to design and field modifications were completed during installation of BMPs. Those modifications included:

- Replaced chain to secure the turbidity curtain with multi-strand galvanized wire
- Located check dam 167 feet downstream of the upstream check dam to obtain the specified elevation variance between check dams

- Added an 8-foot culvert extension and sloped upstream side of rip rap lined ditch to allow proper installation of concrete cloth due to the presence of an out-of-service sewer line

2.4 Turbidity Curtain Installation

The turbidity curtain installation site was prepared by clearing brush and debris along the bank of the Parcel 3 incised ditch (**Figure 1-1**). CCI removed debris from the ditch at the planned installation area. Bollards were installed per the Work Plan. The turbidity curtain was installed within the ditch and secured to the bollards using multi-strand galvanized wire (**Photos 1 through 3, Appendix B**).

2.5 Rock Check Dam Installation

CCI installed two rock check dams within the primary ditch on Parcel 5 (**Figure 1-1**). Brush and trees less than 4 inches diameter at breast height were removed to allow equipment access. Prior to installation, Arrow North, Inc. completed a survey to determine the final check dam placement and to achieve the specified 1.5 feet of fall from the base of the upstream check dam to the top of the downstream check dam. Check dams were constructed according to the specifications within the Work Plan (**Photos 4 through 6, Appendix B**). Sediment with coal tar residuals was encountered at the upstream check dam location. A total of 61.33 tons of sediment was removed and placed in a lined and covered stockpile and allowed to dry prior to disposal. The material was profiled and disposed of as a non-hazardous waste at the Republic Services Upstate Regional MSW Landfill in Enoree, SC (Enoree landfill).

2.6 Concrete Cloth Installation

Concrete cloth was used to replace rip rap in the ditch south of the Transflo property and north of Willard Street (**Figure 1-1**). CCI removed 257 tons of existing rip rap within the ditch and an approximate 1-foot lift of sediment from the ditch base. Rip rap and sediment were profiled and disposed of as non-hazardous waste at the Enoree landfill (**Photos 7 and 8, Appendix B**).

Surface water flow through the ditch was managed by placing an inflatable packer within the upstream culvert to minimize flow. Surface water was pumped around the area of construction within the ditch and discharged through a sediment control bag at the normal confluence with the Reedy River. Absorbent pads and booms were deployed to manage potential sheens. No sheens related to MGP residuals were observed during construction.

Ditch slopes were prepared for concrete cloth installation after removal of rip rap (**Photo 9, Appendix B**). On Wednesday September 30, 2021, a sewer line was uncovered. Renewable Water Resources (ReWa) was notified. ReWa completed an inspection on October 1, 2021 and determined the line to be out of service. No special considerations or specifications were deemed necessary to bury the line. SynTerra confirmed that understanding in an email from Plating to Childress (October 5, 2021, **Appendix A**).

To properly prepare the slope face, a 30-inch diameter reinforced concrete pipe was used to extend the existing upstream culvert by approximately 8 feet. This extension allowed the placement of quarry dust as backfill to create an adequate base for concrete cloth installation (**Photo 10, Appendix B**). The concrete cloth was installed using methods consistent with manufacturer's guidelines (**Photos 11 and 12, Appendix B**).

After installation activities were deemed complete and equipment was demobilized, disturbed areas were stabilized using hydro-seed (**Photos 13 through 15, Appendix B**). Those areas are monitored during routine inspections to verify an adequate vegetative cover is established.

2.7 Operational Records

Operational records maintained during the construction of interim BMPs included:

2.7.1 Pre-job Briefing Safety Forms

Pre-job briefings were conducted each morning before initiating construction activities. The purpose of the briefings was to clarify daily scope and identify potential safety hazards and determine ways to eliminate or manage those hazards. Pre-job briefing forms were included with daily reports and are maintained within the project file.

2.7.2 Daily Equipment Inspection Forms

Equipment inspections were completed each day prior to construction activities. The inspections verified the operational status of each piece of equipment and minimized risk of release of petroleum products to the environment through a hose or seal failure. Equipment inspection forms were included with daily reports and are maintained within the project file.

2.7.3 Daily Field Reports

Daily field reports were completed at the end of each working day. The reports were used to document personnel on-Site, health and safety and environmental concerns, hours of operation, completed activities, significant observations or

findings, and project schedule. The daily reports are maintained in the project file. Site Photographs that document construction activities are included in **Appendix B**.

2.7.4 Waste Manifests

Waste manifests and scale tickets were created for each truckload of material generated at the Site and transported to the final disposal location. Manifests were completed and provided by the landfill. Manifests were signed by SynTerra for Duke Energy, LLC (the Generator), the transporter, and the disposal facility. Completed waste manifests and scale tickets are included in **Appendix C**.

2.7.5 Permitting Documents

Permits required to complete the project were posted at the project site or maintained within on-site project files. Documents associated with those permits are included in **Appendix B**.

The City of Greenville performed inspections necessary to close out the permits associated with BMP construction, including:

Date	Task
October 26, 2021	Final landscape (deemed not applicable)
October 26, 2021	Final zoning
October 26, 2021	Site fire
November 3, 2021	Final site engineering

Inspection status and permit close out information is included in **Appendix B**.

2.7.6 As-Built Survey

Arrow North, Inc. performed an as-built survey of completed BMPs on November 30, 2021. As-built BMPs are shown on **Figure 2-1** and **Figure 2-2**.

3.0 INTERIM BMP INSPECTION AND MAINTENANCE

The turbidity curtain, rock check dams, and concrete cloth are inspected twice per month. More frequent inspection may occur based on precipitation events and general Site conditions. Inspections are performed and documented in accordance with the BMP inspection and maintenance plan presented in the approved Work Plan.

Based on inspection observations, maintenance activities would include:

Turbidity Curtain

- Remove accumulated sediment when it reaches approximately 1 foot in height or when it appears that sediment is impeding flow.
- Skim floatable material from the water surface.
- Deploy sorbent booms as needed to manage observed sheens.

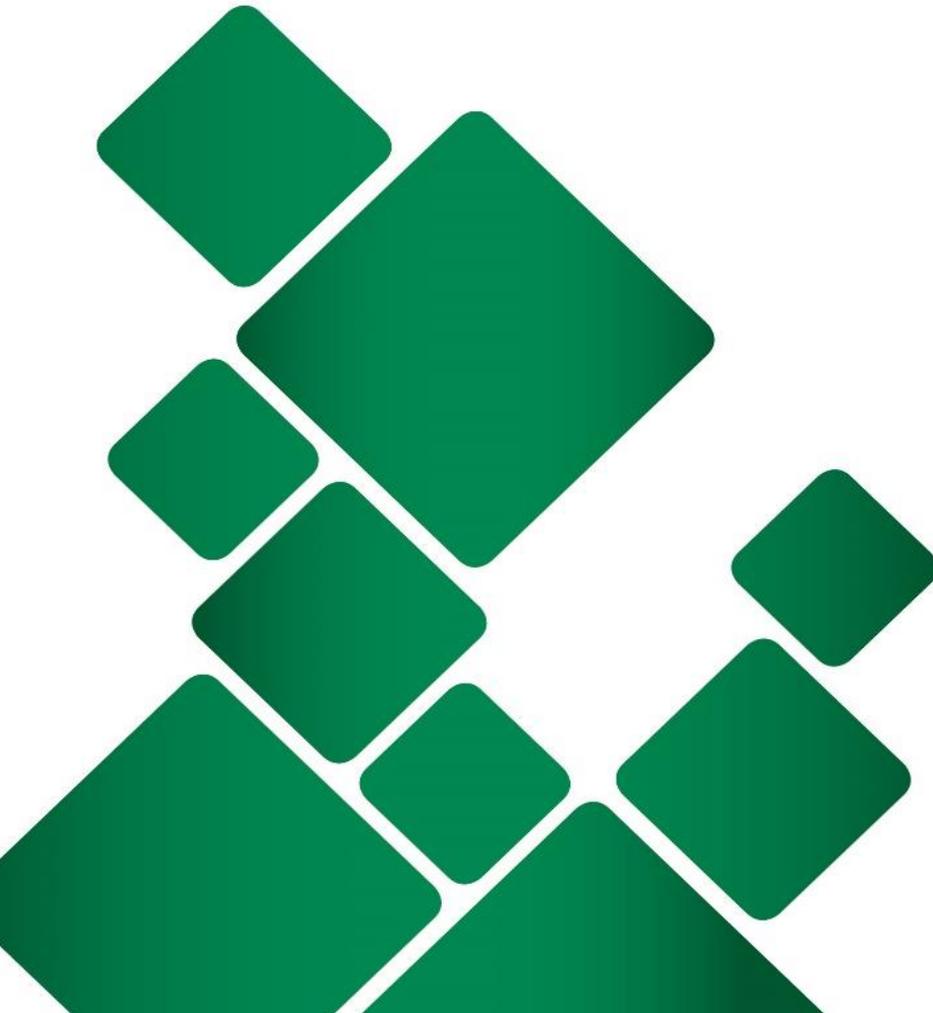
Rock Check Dams

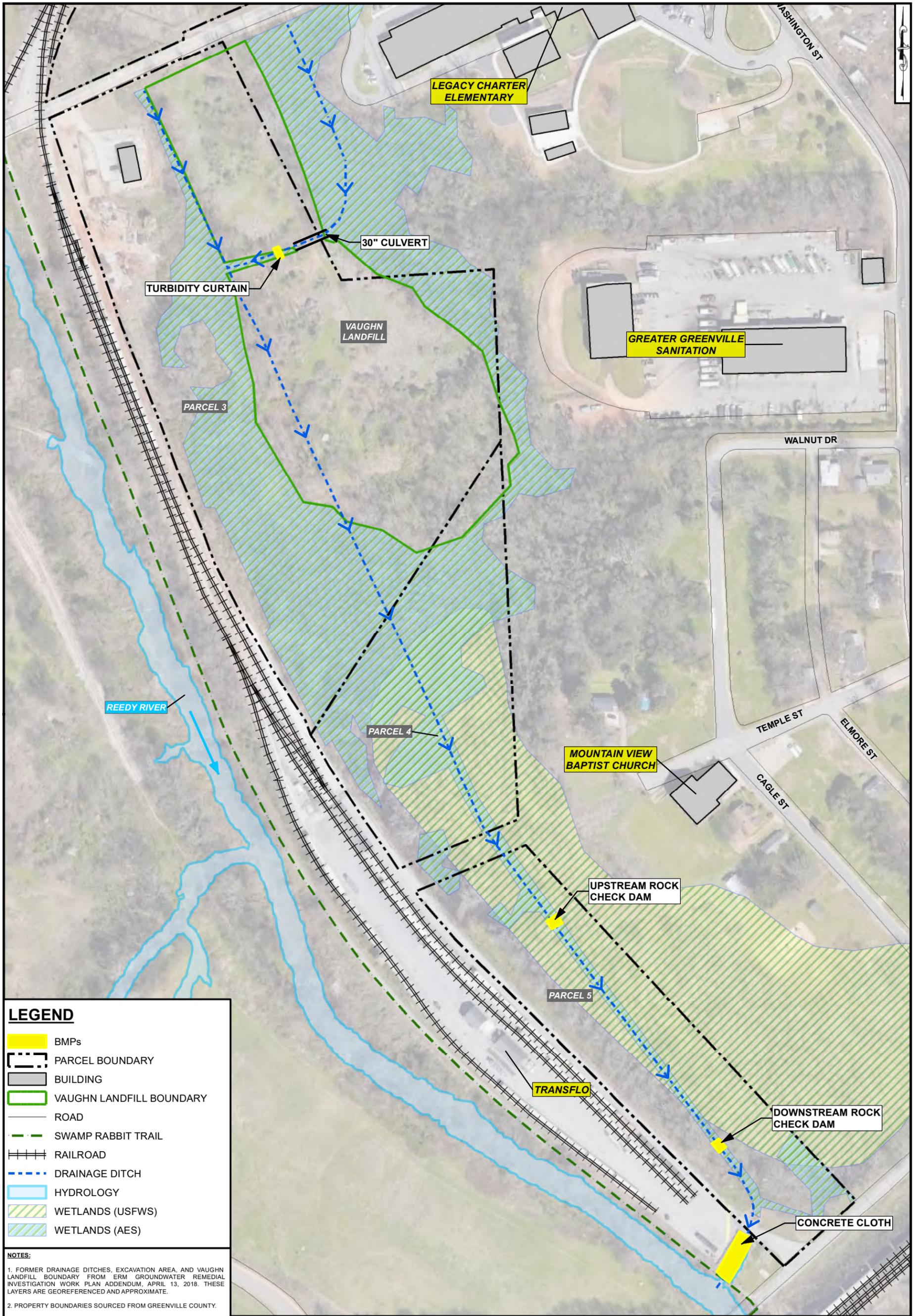
- Remove accumulated sediment in front (upstream) of the check dam when it reaches one-third the height of the rock ditch check or when it appears that sediment is impeding flow.
- Repair erosion observed around the rock check dams as necessary.

Concrete Cloth

- Remove accumulated sediment within the concrete lined ditch as necessary.
- Repair and maintain concrete cloth as necessary.

FIGURES





LEGEND

- BMPs
- PARCEL BOUNDARY
- BUILDING
- VAUGHN LANDFILL BOUNDARY
- ROAD
- SWAMP RABBIT TRAIL
- RAILROAD
- DRAINAGE DITCH
- HYDROLOGY
- WETLANDS (USFWS)
- WETLANDS (AES)

NOTES:

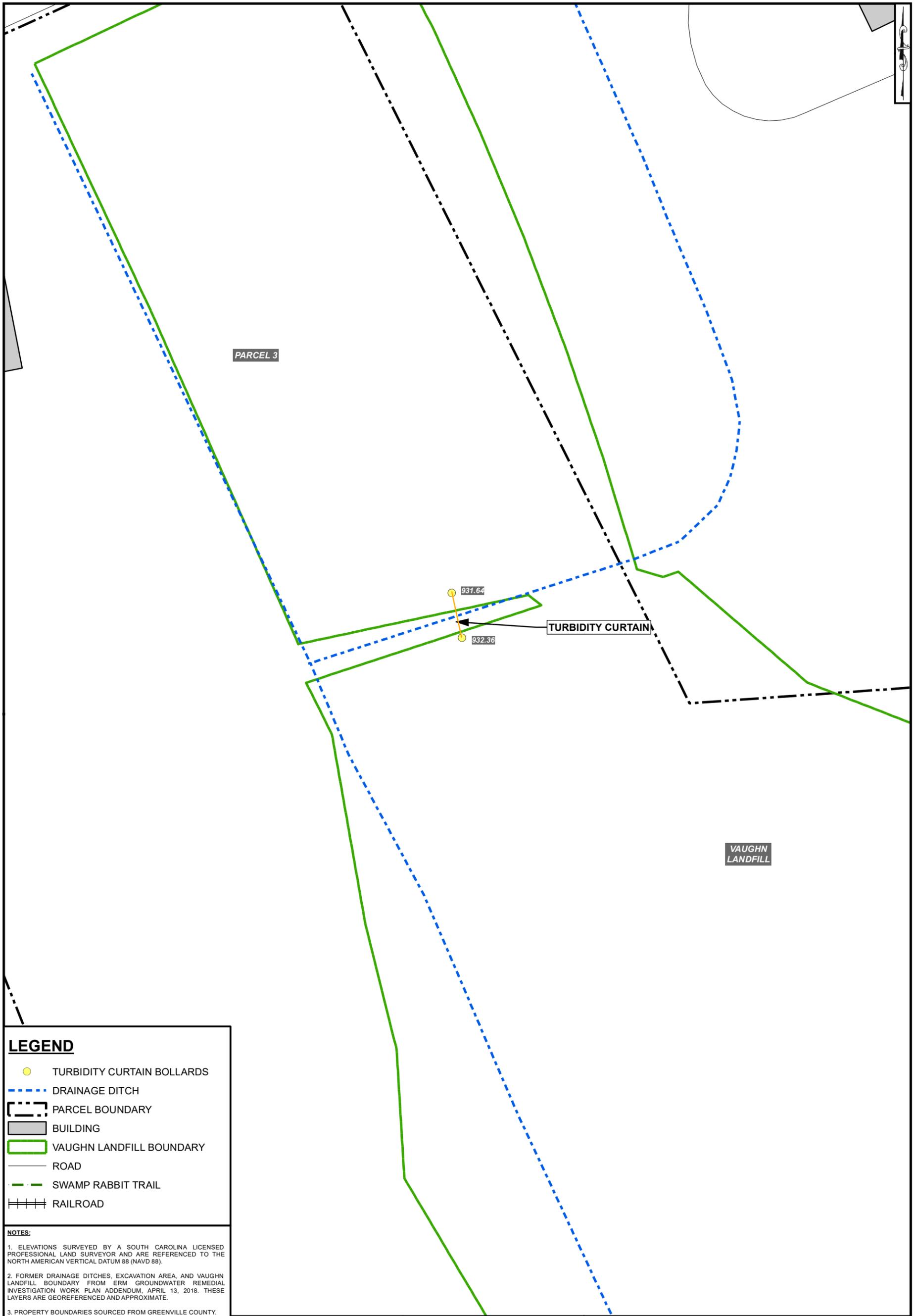
1. FORMER DRAINAGE DITCHES, EXCAVATION AREA, AND VAUGHN LANDFILL BOUNDARY FROM ERM GROUNDWATER REMEDIAL INVESTIGATION WORK PLAN ADDENDUM, APRIL 13, 2018. THESE LAYERS ARE GEOREFERENCED AND APPROXIMATE.
2. PROPERTY BOUNDARIES SOURCED FROM GREENVILLE COUNTY.
3. WETLANDS (USFWS) BY US FISH AND WILDLIFE NATIONAL WETLAND INVENTORY. WETLANDS (AES) DELINEATED BY APPLIED ENGINEERING AND SCIENCE, INC. IN 1999.
4. SWAMP RABBIT TRAIL CENTERLINE FROM CITY OF GREENVILLE.
5. AERIAL PHOTOGRAPHY OBTAINED FROM GOOGLE EARTH PRO ON MAY 3, 2019. INSET AERIAL OBTAINED OCTOBER 20, 2020. AERIAL WAS COLLECTED ON MARCH 12, 2018.
6. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83 INTERNATIONAL FEET).

GRAPHIC SCALE
100 0 100 200
(IN FEET)

DRAWN BY: T. KING DATE: 11/17/2021
 REVISED BY: T. KING DATE: 11/24/2021
 CHECKED BY: T. PLATING DATE: 11/24/2021
 APPROVED BY: T. PLATING DATE: 11/24/2021
 PROJECT MANAGER: T. PLATING

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FIGURE 1-1
SITE LAYOUT MAP
 INTERIM SURFACE WATER BEST MANAGEMENT
 PRACTICE CONSTRUCTION COMPLETION REPORT
 FORMER BRAMLETTE MGP SITE
 GREENVILLE, SOUTH CAROLINA



LEGEND

- TURBIDITY CURTAIN BOLLARDS
- - - - DRAINAGE DITCH
- PARCEL BOUNDARY
- BUILDING
- VAUGHN LANDFILL BOUNDARY
- ROAD
- · - · - SWAMP RABBIT TRAIL
- RAILROAD

NOTES:

1. ELEVATIONS SURVEYED BY A SOUTH CAROLINA LICENSED PROFESSIONAL LAND SURVEYOR AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).
2. FORMER DRAINAGE DITCHES, EXCAVATION AREA, AND VAUGHN LANDFILL BOUNDARY FROM ERM GROUNDWATER REMEDIAL INVESTIGATION WORK PLAN ADDENDUM, APRIL 13, 2018. THESE LAYERS ARE GEOREFERENCED AND APPROXIMATE.
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7. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83 INTERNATIONAL FEET).

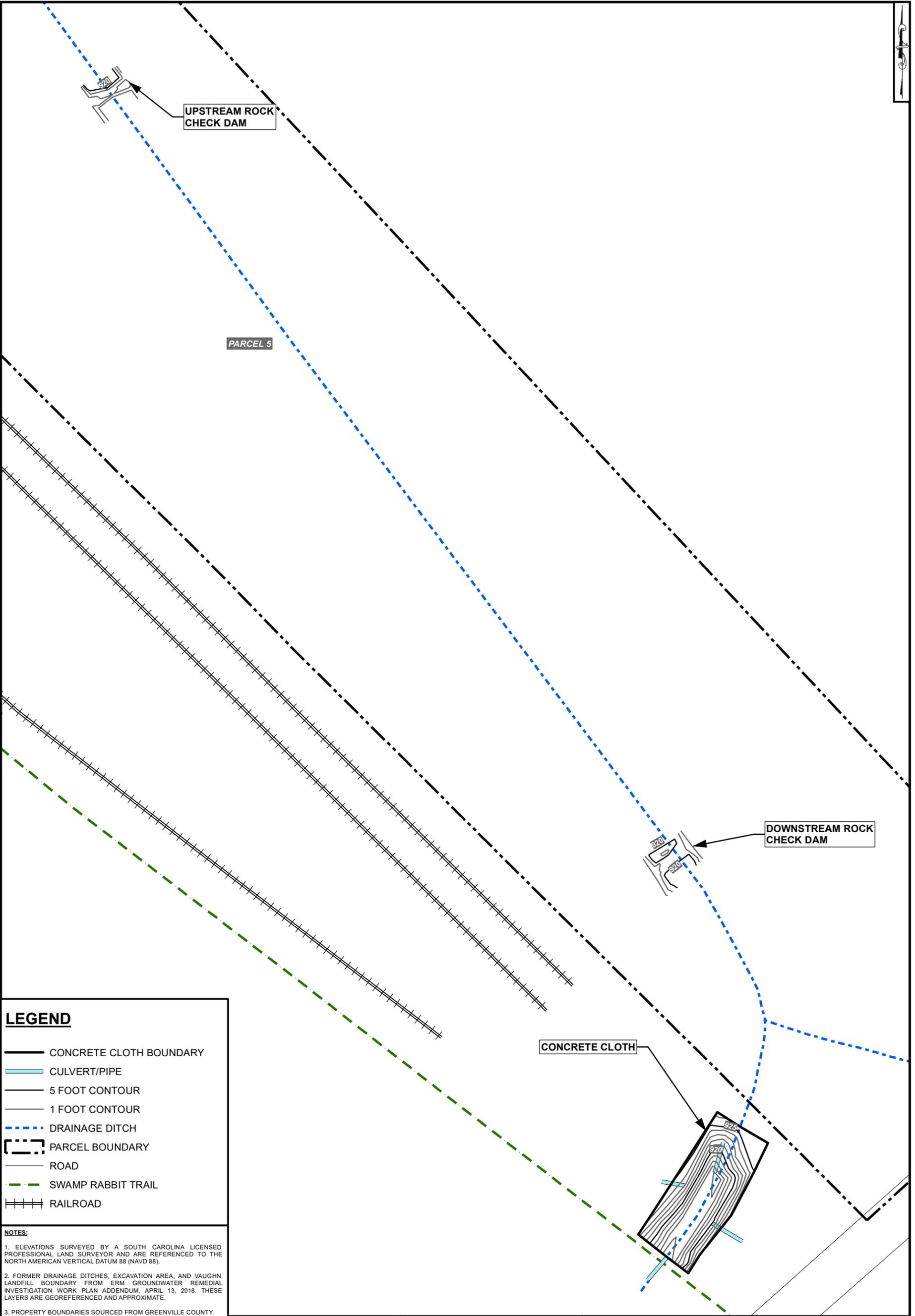



GRAPHIC SCALE
25 0 25 50
(IN FEET)

DRAWN BY: T. KING	DATE: 11/17/2021
REVISED BY: T. KING	DATE: 12/09/2021
CHECKED BY: T. PLATING	DATE: 12/09/2021
APPROVED BY: T. PLATING	DATE: 12/09/2021
PROJECT MANAGER: T. PLATING	

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FIGURE 2-1
TURBIDITY CURTAIN AS-BUILT
INTERIM SURFACE WATER BEST MANAGEMENT
PRACTICE CONSTRUCTION COMPLETION REPORT
FORMER BRAMLETTE MGP SITE
GREENVILLE, SOUTH CAROLINA



LEGEND

	CONCRETE CLOTH BOUNDARY
	CULVERT/PIPE
	5 FOOT CONTOUR
	1 FOOT CONTOUR
	DRAINAGE DITCH
	PARCEL BOUNDARY
	ROAD
	SWAMP RABBIT TRAIL
	RAILROAD

NOTES:

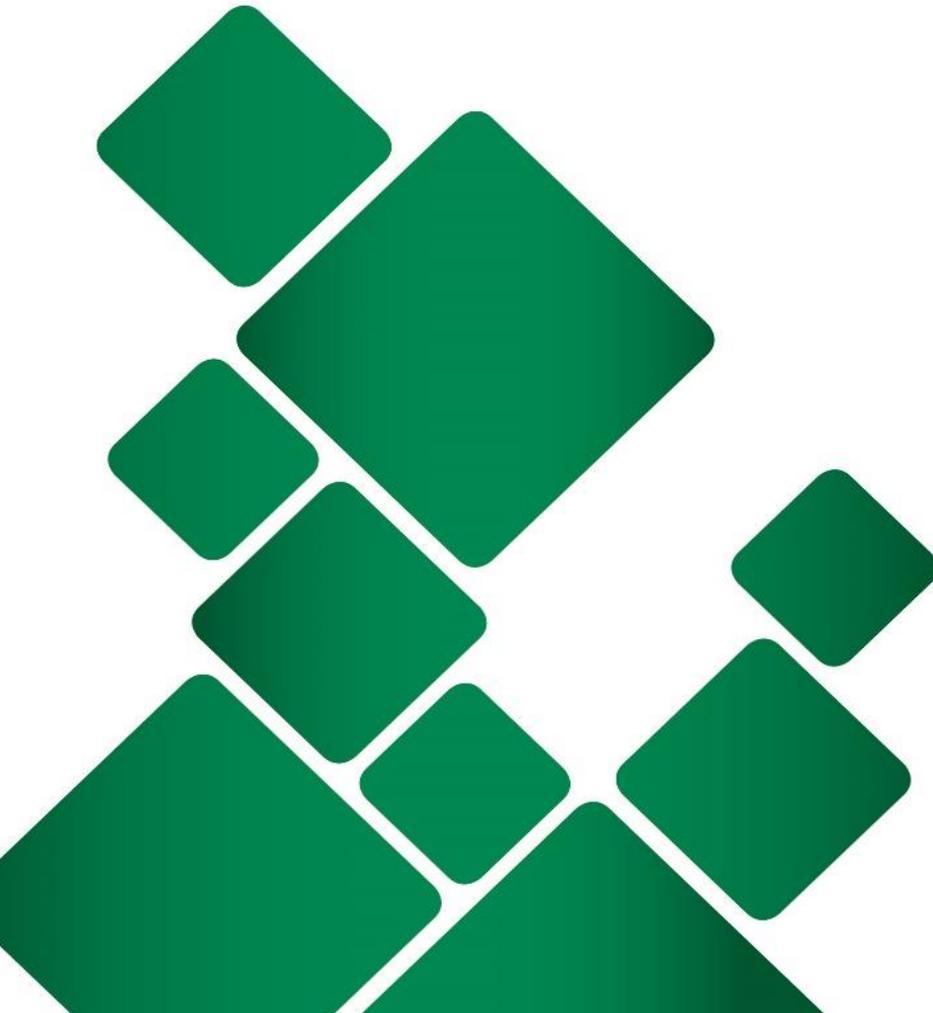
- ELEVATIONS SURVEYED BY A SOUTH CAROLINA LICENSED PROFESSIONAL LAND SURVEYOR AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).
- FORMER DRAINAGE DITCHES, EXCAVATION AREA, AND VAUGHN LANDFILL BOUNDARY FROM ERM GROUNDWATER REMEDIAL INVESTIGATION WORK PLAN ADDENDUM, APRIL 13, 2018. THESE LAYERS ARE GEOREFERENCED AND APPROXIMATE.
- PROPERTY BOUNDARIES SOURCED FROM GREENVILLE COUNTY.
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GRAPHIC SCALE (IN FEET)	
DRAWN BY: T. KING	DATE: 11/17/2021
REVISED BY: T. KING	DATE: 12/09/2021
CHECKED BY: T. PLATING	DATE: 12/09/2021
APPROVED BY: T. PLATING	DATE: 12/09/2021
PROJECT MANAGER: T. PLATING	
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FIGURE 2-2
ROCK CHECK DAMS AND CONCRETE CLOTH AS-BUILT
INTERIM SURFACE WATER BEST MANAGEMENT
PRACTICE CONSTRUCTION COMPLETION REPORT
FORMER BRAMLETTE MGP SITE
GREENVILLE, SOUTH CAROLINA

APPENDIX A

PERMITS AND REGULATORY CORRESPONDENCE



Instructions

This form is for the use on projects that will disturb less than 1 acre and are **not** a part of Larger Common Plan (LCP) for development or sale. It may **not** be used on projects located in the eight counties comprising the S.C. Coastal Zone (Beaufort, Berkeley, Charleston, Colleton, Dorchester, Georgetown, Horry, and Jasper counties).

Completing the Application:

You must type or print legibly. You must include the original, signed notification form and one (1) copy of a sketch plan outlining the anticipated activities and the location of all proposed sediment and erosion control devices.

Where to File: (For projects that are **not** located within the Coastal Zone and are **not** part of a LCP.)

Via Email

Stormwaterlessthan1@dhec.sc.gov
(All files must be submitted as PDFs.)

Via Mail

S.C.DHEC—Stormwater Permitting Section
2600 Bull Street
Columbia, SC 29201-1708

Project/ Site Name

The Project/ Site Name should be a unique or distinguishing name (e.g., not Proposed Subdivision).

Property Information

The official or legal name of the Project Owner/ Operator should be listed under section A. If the Project Owner/ Operator is a company, then a Permit Contact person should be listed under section B. This can be someone other than the person that has signatory authority for the company. **Please provide all requested information including email addresses.**

Property Information

- A. If this project is part of a Larger Common Plan for sale or development, then mark Yes. Otherwise mark No.
- B. List a city/town only if the site is within the city/ town limits. See the following website for assistance in obtaining latitude/ longitude coordinates: http://www.epa.gov/tri/report/siting_tool/index.htm. Latitude (from 32° to 35°) and longitude (78° to 83°) should be for the center of the site to the nearest 15". Minutes (') should be from 0 to 59, and seconds (") should be 0, 15, 30, or 45.
- C. If the Project Owner/ Operator does not own the project site, then list the official or legal name of the current Property Owner of the site. NPDES coverage will be issued to the Project Owner/ Operator (Section I), not the Property Owner, unless same entity.

Site Information

- A. The total and disturbed areas should be rounded to the nearest tenth of an acre.
- B. List the estimated start and completion dates of the construction activity.
- C. If there are any downstream flooding problems, then mark Yes. Otherwise mark No.
- D. If S.C. DHEC has issued a Notice to Comply or Notice of Violation for this site or LCP check Yes, otherwise check No.
- E. Identify the type of activity on this site by checking all that apply. Institutional includes schools and other publicly owned projects, except Linear projects. Site Preparation includes clearing, grubbing, and grading only; no new impervious areas should be proposed if this activity type is checked.
- F. If any of the property is located inside an urbanized area or MS4, then list the entity and contact the respective MS4 or UA to identify applicable project requirements. See the following website for information about MS4s: <http://www.scdhec.gov/environment/water/swnsms4.htm>.
Urbanized area boundary maps are available at <http://cfpub.epa.gov/npdes/stormwater/urbanmapresult.cfm?state=SC>.

Waterbody Information

- A. The nearest receiving waterbody is the nearest Waters of the State (WOS)(see definition in S.C. Regulation 61-9—<http://www.scdhec.gov/environment/water/reg.htm>) to which the site's stormwater will discharge. If this waterbody is unnamed, then provide a description that references the nearest, named waterbody (e.g., tributary to Grove Creek). If the site's stormwater discharges to multiple waterbodies, then list all such waterbodies and attach additional sheets, if necessary.
- B. If there are other waters of the U.S./ State on the site not listed in item A (e.g., lake, pond), then mark Yes under item B.1. If there are proposed impacts to these or any WoS, then mark Yes under item B.2. It is also advised that you contact USACOE (866-329-8187) and/ or S.C. DHEC Water Quality Certification, Standards & Wetlands Programs Section (803-898-4300) about these impacts.
- C. If items B.1 and B.2 where marked Yes, then describe the scope of all impacts to the referenced Waters of the State and list all permits and certifications that have been applied for or obtain which addresses each impact.

Signatures and Certifications

DO NOT SIGN IN BLACK INK! This form must contain original signatures.

- A. If the Project Owner / Operator is a company, print the name of the person who is signing the NOI for the Project Owner / Operator. A person with signatory authority for the Project Owner / Operator must sign the application. Please see §122.22 of S.C. Reg. 61-9 (Appendix C of the CGP) for complete information about signatory authority.

Office Mechanics & Filing

- A. Form will be available online for all applicants.



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment

Less Than One Acre (Not Part of LCP) Project Requirements In Non-Coastal Counties

This document provides guidance for projects that disturb less than one (1) acre; are not part of a larger common plan for development or sale (LCP); and are located outside of the 8 coastal counties (Beaufort, Berkeley, Charleston, Colleton, Dorchester, Georgetown, Horry and Jasper) subject to the requirements of the S.C. Coastal Zone Management Plan. ; and are not part of a MS4 or Urbanized Area (UA). If the less than one (1) acre project is to be constructed in a MS4 or urbanized area, the respective MS4 or UA must be consulted to identify applicable project requirements. The Wheretoapply guidance may also be consulted for MS4/UA contact information.

Regulatory Basis: The S.C. Stormwater Management and Sediment Reduction Act (R.72-300) requires that for land disturbing activities involving two (2) acres or less of actual land disturbance which are not part of a larger common plan of development or sale, the person responsible for the land disturbing activity shall submit a simplified stormwater management and sediment control plan meeting the requirements of R.72-307H. In addition to R.72-300, all projects that disturb 1 acre or more are subject to the requirements of the NPDES General Permit for Storm Water Discharges from Large and Small Construction Activities (CGP). Additionally, projects may be subject to requirements of local governments through local ordinances, in particular, those areas that are considered Municipal Separate Storm Sewer Systems (MS4s) under the NPDES program. Please see <http://www.scdhec.gov/environment/water/swnsms4.htm> for more information. **This specific guidance addresses requirements only for less than one (1) acre non-coastal projects that are not part of a LCP.**

Definition LCP: The plan in LCP is "broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating construction activities may occur on a specific plot." [63 Federal Register No. 128, July 6, 1998, p. 36491] For example, if master calculations have been prepared and/or submitted for an entire site, then all phases and parcels at that site would be considered part of an LCP. If the site is part of a subdivision, industrial park, commercial park, etc., then it is considered to be part of an LCP. If there have been land-disturbing activities, including clearing, grading or excavating, that resulted in one (1) disturbed acre or more since 1992, then any future land-disturbing activities at the site are considered to be part of an LCP.

Less Than One (1) Acre Non-Coastal Project Requirements:

Projects that disturb less than 1 acre **and are not part of a larger common plan for development or sale (LCP)** require the submittal of a simplified plan sheet and Notification Form (DHEC Form 2628) or other form provided by DHEC. **Please note that stormwater detention is not required under R. 72-300 for projects in this program area, however, these projects are required to provide adequate sediment and erosion controls in order to insure no offsite sedimentation into Waters of the State, adjacent properties, and public right-of-ways. Please also note that the Department does not regulate the placement of fill in floodplains. You must contact your local city or county official for such approval. Following is a summary of DHEC's submittal requirements for non-coastal projects that disturb less than one (1) acre and are not part of a LCP or MS4/UA:**

1. Provide **one (1) complete (signed and dated) Notification Form** (DHEC Form 2628) or other form provided by DHEC. *Note: The Notification form must be signed and dated by the Project Owner/Operator.*
2. Provide **one (1) copy of the plan/sketch.** *Note: Plan is not required to be prepared by an engineer, Tier B surveyor, or landscape architect; however, if an individual with one of these licenses prepares the plan, then they must sign and seal the plans. The sketched plan should include:*
 - (a) A site location drawing of the proposed project, indicating the location of the proposed project in relation to roadways, jurisdictional boundaries, streams and rivers;
 - (b) The boundary lines of the site on which the work is to be performed;
 - (c) The location of temporary and permanent vegetative and structural stormwater management and sediment control measures; and
 - (d) A topographic map of the site (if required by the implementing agency).
3. A **narrative description** of the stormwater management and sediment control plan to be used during land disturbing activities. *Note: This may be included on the plans instead of in a written narrative.* Include a general description of topographic and soil conditions of the property. Include a general description of adjacent property and a description of existing structures, buildings, and other fixed improvements located on surrounding properties.

Once completed, the notification package (form, plans, and narrative) may be e-mailed (as pdf) to Stormwaterlessthan1@dhec.sc.gov for electronic processing by the Bureau of Water. **A notice of receipt will be e-mailed to the applicant upon successful receipt of the notification package. Once the notification package has been screened for completeness and applicability, a letter requesting additional information or an approval letter will be e-mailed to the project owner/operator at the e-mail address provided on the notification form.** If electronic submittal is not possible or desired, Less Than One Acre notifications may be mailed to SCDHEC - Bureau of Water, Stormwater Permitting Section, 2600 Bull Street, Columbia, S.C. 29201

Todd Plating

From: StormWaterLessThan1 <Stormwaterlessthan1@dhec.sc.gov>
Sent: Wednesday, August 18, 2021 4:27 PM
To: Todd Plating
Cc: Powell, Richard E.
Subject: Re: D-2628 notification - Bramlette MGP

EXTERNAL: This message was sent from outside your organization.

[Allow sender](#) | [Block sender](#)

****If you have already received this email for the project submitted, please disregard****

We are in receipt of your Non-Coastal Stormwater Less than One-Acre (LTOA) Notification.

Please allow this email to serve as confirmation of the Department's receipt of the notification form. Via submittal of this form, you have complied with your obligation for notification under the S.C. Stormwater Management Regulations and your notification has been placed on file with the Department (SCDHEC).

If you are certain your site meets all LTOA program requirements, you may proceed with construction activities identified in the notification submitted to the Department. Please note that ONLY construction activities identified in your notification may be performed at your site. The operator of the activity is responsible for compliance with the plan and assuring no sediment is discharged off-site or to Waters of the State. The operator is also responsible for obtaining any additional approvals that may be necessary for the planned activity.

Please be aware, the Department may conduct periodic inspections of your project/site and failure to meet all applicable requirements, as defined by the Department or the respective MS4, or failure to comply resulting in discharge of sediment to Waters of the State and/or adjacent properties may subject you to applicable penalties under the S. C. Pollution Control Act.

If you are not certain your site meets all LTOA program requirements or if you have additional questions, do not proceed with construction activities. Please review the information on the following links and contact the Department or, if applicable, the respective MS4.

<http://www.scdhec.gov/Environment/WaterQuality/Stormwater/WherettoApply/>
<http://www.scdhec.gov/environment/WaterQuality/Stormwater/lessthan1acre/>
<http://www.scdhec.gov/Environment/docs/nonCoastal-LT1A.pdf>

If you have further questions, please call 803-898-4300 and ask for Stormwater Permitting.

Sincerely,

The Division of Dam Safety and Stormwater Permitting

From: Todd Plating <tplating@synterracorp.com>
Sent: Wednesday, August 18, 2021 5:31 PM

To: StormWaterLessThan1 <Stormwaterlessthan1@dhec.sc.gov>

Cc: Powell, Richard E. <Richard.Powell2@duke-energy.com>

Subject: D-2628 notification - Bramlette MGP

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Good afternoon,

On behalf of Duke Energy, SynTerra is providing the attached notification form and accompanying narrative and plans for sites disturbing less than 1-Acre. Please do not hesitate to reach out to Rick Powell (Duke Energy) at 980.373.2663 or Richard.Powell2@duke-energy.com or me with any questions.

Thank you,

Todd Plating, P.G.*



148 River Street, Suite 220

Greenville, South Carolina 29601

Main: 864.421.9999

Mobile: 864.420.8656

Email: tplating@synterracorp.com

www.synterracorp.com

* Registered in SC, NC

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This email might contain privileged or confidential information. If the email was not intended for you, please:

- (i) Delete the email and any attachments.
- (ii) Destroy any copies that might have been made.
- (iii) Do not use, copy, or distribute the contents in any form.
- (iv) Notify me by return email or by calling 864.421.9999.

No privilege is waived by inadvertent transmission.

Nicholas Hartshorn

From: donotreply@civicplus.com
Sent: Wednesday, July 14, 2021 3:13 PM
To: Nicholas Hartshorn
Subject: Online Form Submittal: Contractor E-form Non-Single Family Site Application attachments

You don't often get email from donotreply@civicplus.com. [Learn why this is important](#)

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Contractor E-form Non-Single Family Site Application attachments

Property Information

This application is not to be used by the homeowner.
All BP Applications, unless exempt by the Building Official, require one set of electronic plans. A land disturbance permit must be applied for and purchased by the licensed contractor once the site application is approved.

Please allow 24 to 48 hours for processing.
You will be notified by email once your permit is ready for payment.

(Section Break)

Instructions

1. Please refer to Section 19-2.3.9, *Site Plan Application*, for additional information.
 2. There is a fee of \$200.00, made payable to the City of Greenville.
 3. The following examples are illustrative of the types of activities requiring a site plan permit; final determination of the necessity for a permit and content of a site plan rests with the permit coordinator:
 - a. All new construction
 - b. Modifications affecting the existing gross floor area of a building or structure
 - c. Modification, or enclosure, of building features originally exempt from zoning dimensional standards (porches, balconies, breezeways, etc.)
 - d. Establishment of a land use at an existing, but currently-vacant, location
 - e. Change from one use to another as reflected in sec 19-4.1.2, *Table of Uses*
 - f. Development requiring the correction of nonconforming parking, screening, or landscaping
 4. The staff will review the application for "sufficiency" pursuant to section 19-2.2.6, *Determination of Sufficiency*. The staff will contact the applicant to correct any deficiencies which must be corrected prior to routing the application for review.
 5. Plan format and content requirements are reflected in the *SITE PLAN CHECKLIST*. Please verify that all required information is reflected on the plan.
-

(Section Break)

Agreement and Applicant I Agree
Certification

(Section Break)

Covenants & Restrictions	is not restricted
Your Name (Not the Contractor):	Jim Langenbach
Date:	7/8/2021
Your Phone	321-269-5880
Your email	JLangenbach@Geosyntec.com
Job Site Street Address	411 Bramlett, Temple, Willard
Tax Map #	0138000100100
Zoning Designation	Utility and Commercial Vacant
Overlay District	<i>Field not completed.</i>
Use (Table 19-4.1.2)	Utility and Commercial Vacant
Owner Name	CSX Corporation
Owner Email	N/A
Owner Phone	904-359-3200
Brief description of job	Construction of stormwater best management practices to improve water quality and reduce erosion and sedimentation.

Other Permits

Stormwater Permit

If you answer yes to any of the questions below, a Stormwater Permit is required.

Is this property within a Floodplain?	Yes
Does this project disturb 10,000 square feet (0.23 acres) or more?	No
Is this part of a Larger Common Plan as defined in Section 19-7.5 of the Ordinance?	No
Disturbed Area	0.06 acres
Permit Type	Major Stormwater Permit

(Section Break)

WASTEWATER PERMIT

If you answer yes to the question below, you will either need to submit a wastewater application with this application or as a revision.

Does this site require a sanitary sewer main extension? No

Wastewater Application [Wastewater Permit Application](#)

If your project will create or change any sewer flow, one of the following will need to be submitted:

Service Lateral Fillable Form [Service Lateral Fillable Form](#)

Direct Connect to ReWa Fillable Form: [Direct Connect Fillable Form:](#)

(Section Break)

RETAINING WALL PERMIT

If you answer yes to the below question, a Retaining Wall Permit is required and the retaining wall location and elevation information shall also be shown on the site plan.

*Does this project require a retaining wall that is not part of the building foundation? No

Site Plan Checklist

Indicate location of the required information within the plans or mark "N/A" if required information does not apply to the project.
A provision of all required information is not a guarantee of site plan application approval. This list contains the minimum amount of information necessary for the review of a Site Plan. The City of Greenville may require supplemental reports, data or information as necessary. The Administrator may waive or modify these plan requirements depending upon the legal and physical circumstances affecting the subject parcel and the proposed development. If you have questions concerning this checklist, please contact the Permit Coordinator at (864) 467-4457.

(Section Break)

*SITE PLAN, GENERAL REQUIREMENTS:

The preferred drawing minimum size is 24" x 36". YES

Minimum scale of 1"=50' YES

North arrow and graphical scale bar or scale noted on each plan sheet	YES
Name of Development on each plan sheet	YES
Individual / organization seal(s), signatures, and contact information of the design professional that prepared the plans	YES
Graphically note revisions between submittals with a revision cloud or other similar means. Resubmittals require a narrative addressing each Staff comment and where the revision is located within the revised plan set	N/A
Vertical elevation datum shall be North American Vertical Datum of 1988 (NAVD 88)	YES
Horizontal datum survey control shall be South Carolina State Plane NAD83 HARN International Feet coordinates	YES
For site plans requiring property to be subdivided: Either the approved Summary Plat must be recorded at the County Register of Deeds office – OR- a Preliminary Plat must be approved by the City Planning Commission prior to a Site Plan Approval being issued	N/A

(Section Break)

*SITE PLAN, TITLE PAGE (FIRST SHEET OF PLAN SET):

Name, address, and telephone of record owner	YES
Index of included sheets and date	YES
Vicinity map at scale not less than 1" = 2000' illustrating the relationship of the property proposed for development with adjoining property and streets within 100' of the perimeter of the property	YES
Tax map references for parcels being developed	YES
Name and address of developer or agent of owner, and the individual responsible for satisfactory completion of work	YES
Total area of land, buildings, and uses being developed	YES
Statement identifying basis of vertical and horizontal datum	YES
Statement identifying date and source of survey information	YES
Include the following City of Greenville standard notes:	YES
General construction specifications applicable to the development	YES
Specifications for temporary and permanent vegetation	N/A
Statement identifying basis of horizontal control for construction staking:	YES

Results of fire flow tests, as appropriate N/A

(Section Break)

***SITE PLAN, EXISTING CONDITIONS SURVEY:**

Boundary lines with courses and distances of the parcel where the work will be performed YES

Record owner names and tax map references of all contiguous and adjacent parcels. YES

Record owner names and tax map references of all contiguous and adjacent parcels. YES

Contour lines and elevation data within, and adjoining, the proposed development at intervals not to exceed two (2) feet. YES

Location and dimension of all existing legal features within, and adjoining, the proposed development including, but not limited to: YES

Location, dimensions, materials of all existing physical features within, and adjoining, the proposed development including, but not limited to: YES

Location, material, and size (as applicable) of all existing utilities within, and adjoining, the proposed development including, but not limited to: N/A

Location of all existing natural features within, and YES

adjoining, the proposed development including, but not limited to:

Location, material, size, and elevation data (as applicable) of existing offsite and onsite drainage features including, but not limited to:	YES
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Tree inventory plan noting the location, diameter, and species. (The tree inventory plan should be limited to trees meeting the thresholds for inventory per the Landscape Ordinance in Sections 19-6.2 and 19-6.3 of the Land Management Ordinance. See also Appendix 'E.')	N/A
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(Section Break)

***SITE PLAN, PROPOSED IMPROVEMENTS:**

Location of all proposed legal features within, and adjoining, the proposed development including:	YES
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All necessary construction easements. (Executed construction easements must be submitted prior to receiving a Site Plan Approval.)	N/A
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Limits of disturbance	YES
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Location of any proposed phase lines	N/A
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Location, dimensions, materials of all proposed physical improvements within, and adjoining, the proposed development including, but not limited to:	N/A
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Location, material, and size (as applicable) of all proposed utilities within, and adjoining, the proposed development including, but not limited to:	N/A
Location, material, size, and elevation data (as applicable) of proposed stormwater management system components including, but not limited to:	YES
Location, type, and supporting data for site lighting including all proposed exterior lighting and streetlights.	N/A
Location, dimension, species, and material for all landscaping, buffering, and screening necessary to meet the requirements of the Landscape Ordinance. (See also Appendix 'E.' of the Administrative Manual.)	N/A
Site accessibility plan showing the accessible route from each site arrival point to the building accessible entrance and internally within the site to connect accessible buildings, facilities, elements and spaces on the site.	YES
Parking and circulation areas shall, at a minimum, provide the following information:	N/A
Handicap parking areas shall, at a minimum, provide the following information:	N/A

A general description of the erosion and sediment control to be used during the land disturbing activities

YES

(Section Break)

***SITE PLAN, FOR PROJECTS INCLUDING ROAD CONSTRUCTION:**

Street design shall, at a minimum, provide the following information:

N/A

Traffic control signage

N/A

Pavement markings

N/A

(Section Break)

***SITE PLAN, FOR PROJECTS INCLUDING RETAINING WALLS:**

All retaining walls four (4) feet and greater in height, when measured from the bottom of the footing to the top of the wall at any point, and all retaining walls supporting a surcharge or impounding Class I, II, or IIIA liquids must be engineered.

N/A

The design and calculations must be prepared by a Registered South Carolina Professional Engineer for review and approval prior to installation.

N/A

All engineered retaining walls must be submitted to the Building Codes Department for review.

N/A

All engineered retaining walls must be inspected through the course of construction by a certified third party inspector. All inspection records must be

N/A

submitted to the City of Greenville Building Inspector prior to requesting a Certificate of Occupancy.

(Section Break)

***SITE PLAN, FOR PROJECTS INCLUDING WASTEWATER MAIN EXTENSIONS:**

The Applicant must apply directly through the Environmental Bureau of the Engineering Division in order to permit a wastewater main extension. The City of Greenville is the Delegated Review Authority for SCDHEC.	N/A
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(Section Break)

***SITE PLAN, DETAILS:**

Applicable details for all proposed improvements to support the plan submittal must be included.	YES
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(Section Break)

***MISCELLANEOUS: (THE APPLICANT SHALL PROVIDE THE FOLLOWING TO THE ADMINISTRATOR AS APPROPRIATE TO THE CIRCUMSTANCES.)**

Traffic Impact Study. Contact the City of Greenville's Traffic Engineering Bureau (864) 467-4360 for requirements that trigger the need to develop a Traffic Impact Study.	N/A
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Documentation confirming that the Applicant has a legally sufficient interest in the property to use it in the manner requested, or is the duly appointed agent of such person.	YES
---	-----

Certifications from the appropriate agencies that proposed utility systems will be adequate to accommodate the development and that all necessary easements have been provided.	N/A
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Legal documentation establishing homeowners' association(s) or other legal entities responsible for control over required common areas and facilities.	N/A
--	-----

Bonds, letters of credit, or other surety devices.	N/A
--	-----

Recorded easements authorizing the use of satellite parking.	N/A
--	-----

Time schedules for the completion of phases in staged developments.	N/A
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Tree Disturbance

Will any trees greater than 6" trunk diameter be removed or destroyed as part of this site work, building construction, or building renovation?	No
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Attachments

How are you submitting plans?	I would like to submit with this application.
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Electronic Submittal Guidelines	Electronic Submittal Guidelines
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Please note we have changed the process to upload attachments	How to create a ZIP file (PDF)
---	--

Attachments	Geosyntec_Site_Application_2021-07-14.zip
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Disclaimer

Please allow 24 to 48 hours for processing.
If there is an error with one of the file(s) during processing, you will be notified and requested to upload again. This can delay the review time of your application.

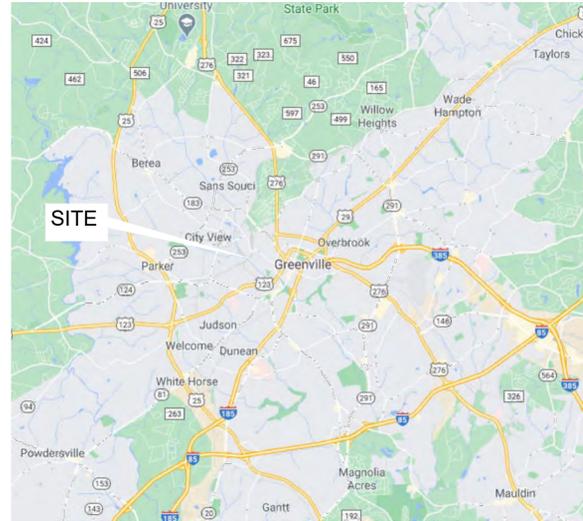
Email not displaying correctly? [View it in your browser.](#)

PARCEL 3 & 5 INTERIM BEST MANAGEMENT PRACTICE PLAN

FORMER BRAMLETTE MGP SITE

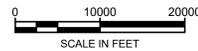
EAST BRAMLETTE ROAD, GREENVILLE, SOUTH CAROLINA

JUNE 2021



SOURCE: MAP DATA @ 2020, GOOGLE MAP DATA

VICINITY MAP

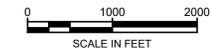


INDEX OF DRAWINGS	
DRAWING NUMBER	TITLE
1	TITLE SHEET, VICINITY & SITE MAPS, AND DRAWING INDEX
2	GENERAL NOTES
3	EXISTING CONDITIONS SITE PLAN
4	TURBIDITY CURTAIN PLAN AND DETAILS
5	PERMEABLE ROCK CHECK DAM PLAN AND DETAILS
6	RIP RAP DITCH RESURFACING
7	EROSION AND SEDIMENT CONTROL PLAN



SOURCE: IMAGERY @ 2020, GOOGLE EARTH

SITE MAP



NOTES:

1. HORIZONTAL DATUM IS NAD 83 SOUTH CAROLINA STATE PLANE, HARN INTERNATIONAL FEET AND VERTICAL DATUM IS NAVD 88 FOR ALL DRAWINGS UNLESS SPECIFIED OTHERWISE.
2. TOPOGRAPHY (EXISTING GROUND CONTOURS) OBTAINED FROM CADD FILE ORIGINALLY PREPARED BY SYNTERRA CORPORATION FOR GREENVILLE COUNTY OBTAINED FROM SOUTH CAROLINA DEPARTMENT OF NATURAL RESOURCES, 2013.
3. ALL RETAINING WALLS FOUR (4) FEET AND GREATER IN HEIGHT, WHEN MEASURED FROM THE BOTTOM OF THE FOOTING TO THE TOP OF THE WALL AT ANY POINT, AND ALL RETAINING WALLS SUPPORTING A SURCHARGE OR IMPOUNDING CLASS I, II, OR IIIA LIQUIDS MUST BE ENGINEERED BY A REGISTERED SOUTH CAROLINA PROFESSIONAL ENGINEER AND SUBMITTED TO THE CITY OF GREENVILLE'S BUILDING CODES DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
4. ANY REVIEW / ACCEPTANCE BY THE CITY OF GREENVILLE DOES NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTORS FROM MEETING CODE / ORDINANCE REQUIREMENTS (SOUTH CAROLINA CODE OF LAWS SECTIONS 40-11-110 AND 40-59-90).
5. THE CONTRACTOR MUST NOTIFY THE CITY OF GREENVILLE'S CONSTRUCTION INSPECTION BUREAU (864) 467-8890 A MINIMUM OF 72 HOURS PRIOR TO BEGINNING DEMOLITION AND CONSTRUCTION.
6. AN ENCROACHMENT PERMIT FROM THE SCDOT FOR STATE ROADS OR FROM THE CITY OF GREENVILLE FOR CITY ROADS (CONTACT THE CONSTRUCTION INSPECTION BUREAU, (864) 467-8890) IS REQUIRED FOR ANY WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY.
7. TOTAL AREA OF LAND BEING DEVELOPED 0.12 ACRES.

PREPARED FOR:
DUKE ENERGY, CAROLINAS, LLC
523 SOUTH CHURCH STREET
CHARLOTTE, NORTH CAROLINA 28202
980.373.2663

PREPARED BY:
GEOSYNTEC CONSULTANTS
6770 SOUTH WASHINGTON AVENUE
SUITE 3
TITUSVILLE, FLORIDA 32780
321.269.5880

REV	DATE	DESCRIPTION	DRN	APP
2	06/30/2021	SITE APPLICATION DRAWINGS	NH	DR
1	04/05/2021	ISSUED FOR BID	SB	DR
0	03/19/2021	ISSUE FOR REVIEW	SB	DR



6770 SOUTH WASHINGTON AVENUE, SUITE 3
TITUSVILLE, FLORIDA 32780 USA
PHONE: 321.269.5880



TITLE: TITLE SHEET, VICINITY & SITE MAPS, AND DRAWING INDEX	
PROJECT: PARCEL 3 & 5 TEMPORARY BEST MANAGEMENT PRACTICE PLAN	
SITE: FORMER BRAMLETTE MGP SITE	
	CERTIFICATE OF AUTHORIZATION
DESIGN BY: SB	DATE: JUNE 2021
DRAWN BY: SB/SG	PROJECT NO.: FR7559.01.03
CHECKED BY: JG/NH	FILE:
REVIEWED BY: DR/JG/NH/JL	DRAWING NO.:
APPROVED BY: DR/JL	1 OF 7

GENERAL NOTES:

1. REFER TO THE CONTRACT DOCUMENTS AND THESE DRAWINGS FOR DEFINITION OF TERMS, ABBREVIATIONS, ACRONYMS, SYMBOLS, LEGENDS, AND DRAWING NOTES. SYMBOLS AND ABBREVIATIONS ON THIS DRAWINGS MAY NOT NECESSARILY BE USED ON EVERY SHEET WITHIN THE DRAWINGS.
2. THE CONTRACTOR SHALL PERFORM ALL WORK SHOWN ON THESE DRAWINGS ACCORDING TO THE SPECIFIC REQUIREMENTS SHOW HEREIN AND THE SPECIFIC REQUIREMENTS SET FORTH IN THE CONTRACT DOCUMENTS (E.G., SPECIFICATIONS, CONSTRUCTION QUALITY ASSURANCE PLAN, ETC.).
3. COORDINATE SYSTEM USED FOR ALL DRAWINGS IS NAD 83 SOUTH CAROLINA STATE PLANE, HARN INTERNATIONAL FEET, UNLESS SPECIFIED OTHERWISE.
4. VERTICAL DATUM USED FOR ALL DRAWINGS IS NAVD 88, UNLESS SPECIFIED OTHERWISE.
5. TOPOGRAPHY (EXISTING GROUND CONTOURS) OBTAINED FROM CADD FILE ORIGINALLY PREPARED BY SYNTERRA CORPORATION FOR GREENVILLE COUNTY OBTAINED FROM SOUTH CAROLINA DEPARTMENT OF NATURAL RESOURCES, 2013.
6. BASEMAP FEATURES PROVIDED BY SYNTERRA CORPORATION.
7. LOCATIONS OF ALL STRUCTURES AND SITE CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AND ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL ARE SHOWN. UTILITIES ARE KNOWN TO BE PRESENT ON THE SITE ALONG PUBLIC ROADS/EASEMENTS AND DEVELOPED PROPERTIES; CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO EXCAVATION.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRAFFIC CONTROL, AND SECURITY.
9. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES TO EXISTING AREAS AND FINAL CONSTRUCTED CONDITIONS DURING THE WORK AND ANY APPLICABLE WARRANTY PERIOD(S).
10. THE CONTRACTOR IS RESPONSIBLE FOR MANAGING, PREPARING, DISPOSING, OR OTHERWISE REMOVING ANY AND ALL DEBRIS, EXCESS MATERIALS, EXCESS SOILS, ETC., FROM THE SITE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
11. THE CONTRACTOR SHALL RECEIVE WRITTEN NOTICE AND APPROVAL OF ANY CHANGES TO THE CONTRACT DRAWINGS OR SPECIFICATIONS PRIOR TO THE EXECUTION OF ANY CHANGES BY THE CONTRACTOR. ANY DEVIATIONS PERFORMED WITHOUT ACCEPTANCE BY THE OWNER OR ENGINEER WILL NOT BE PAID FOR, AND MAY BE REQUIRED TO BE REDONE AT THE CONTRACTOR'S EXPENSE.
12. ALL WORK ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED HEALTH AND SAFETY PLAN. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING APPROPRIATE HEALTH AND SAFETY MEASURES AND TRAINING FOR ALL AREAS OF WORK.
13. PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A PRE-CONSTRUCTION MEETING WITH THE CITY OF GREENVILLE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THE WORK OUTLINED IN THE CONTRACT DOCUMENTS.

2	06/30/2021	SITE APPLICATION DRAWINGS	NH	DR
1	04/05/2021	ISSUED FOR BID	SB	DR
0	03/19/2021	ISSUE FOR REVIEW	SB	DR
REV	DATE	DESCRIPTION	DRN	APP



6770 SOUTH WASHINGTON AVENUE, SUITE 3
TITUSVILLE, FLORIDA 32780 USA
PHONE: 321.269.5880

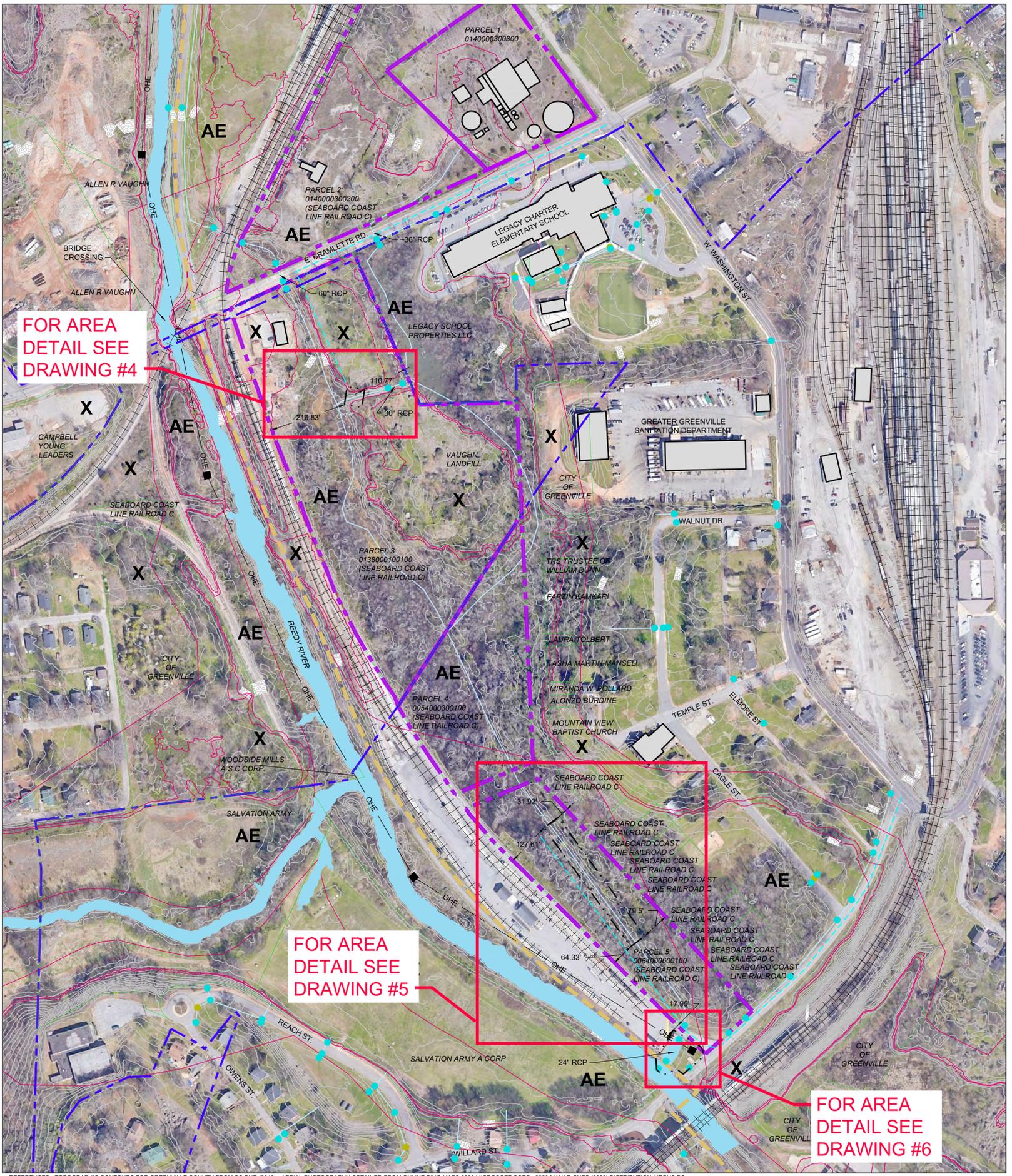


TITLE: GENERAL NOTES

PROJECT: PARCEL 3 & 5 TEMPORARY BEST MANAGEMENT PRACTICE PLAN

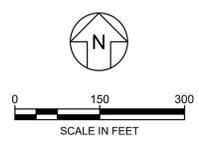
SITE: FORMER BRAMLETTE MGP SITE

		<table border="1"> <tr> <td>DESIGN BY: SB</td> <td>DATE: JUNE 2021</td> </tr> <tr> <td>DRAWN BY: SB/SG</td> <td>PROJECT NO.: FR7559.01.03</td> </tr> <tr> <td>CHECKED BY: JG/NH</td> <td>FILE:</td> </tr> <tr> <td>REVIEWED BY: DR/JG/NH/JL</td> <td>DRAWING NO.:</td> </tr> <tr> <td>APPROVED BY: DR/JL</td> <td style="text-align: center;">2 OF 7</td> </tr> </table>	DESIGN BY: SB	DATE: JUNE 2021	DRAWN BY: SB/SG	PROJECT NO.: FR7559.01.03	CHECKED BY: JG/NH	FILE:	REVIEWED BY: DR/JG/NH/JL	DRAWING NO.:	APPROVED BY: DR/JL	2 OF 7
DESIGN BY: SB	DATE: JUNE 2021											
DRAWN BY: SB/SG	PROJECT NO.: FR7559.01.03											
CHECKED BY: JG/NH	FILE:											
REVIEWED BY: DR/JG/NH/JL	DRAWING NO.:											
APPROVED BY: DR/JL	2 OF 7											



- LEGEND:**
- 930 EXISTING SURFACE CONTOURS
 - OHE EXISTING OVERHEAD POWER LINE AND TOWER
 - PARCEL BOUNDARY
 - CONSTRUCTION BOUNDARY
 - CITY OF GREENVILLE CITY LIMITS
 - ADJACENT OWNER PARCELS
 - ACCESS ROUTE
 - STORMWATER CONVEYANCE PIPELINE
 - SWAMP RABBIT TRAIL
 - RAILROAD
 - STORMWATER MANHOLE
 - STORMWATER INLET
 - BUILDING
 - FEMA FLOODPLAINS

- NOTES:**
1. PROPERTY BOUNDARIES SOURCED FROM GREENVILLE COUNTY.
 2. COORDINATE SYSTEM NAD 83 SOUTH CAROLINA STATE PLANE, INTERNATIONAL FEET.
 3. BASEMAP FEATURES PROVIDED BY SYNTERRA CORPORATION.
 4. BASEMAP GIS SHAPE FILES WERE OBTAINED FROM THE CITY OF GREENVILLE.
 5. BASEMAP FEMA FLOODPLAIN GIS COVERAGE WAS OBTAINED FROM FEMA.
 6. STORMWATER INFRASTRUCTURE DATA SET WAS MODERATELY ADJUSTED BY GEOSYNTEC BASED ON FIELD RECONNAISSANCE.
 7. TOPOGRAPHY (EXISTING GROUND CONTOURS) OBTAINED FROM CADD FILE ORIGINALLY PREPARED BY SYNTERRA CORPORATION FOR GREENVILLE COUNTY OBTAINED FROM SOUTH CAROLINA DEPARTMENT OF NATURAL RESOURCES, 2013.



2	06/30/2021	SITE APPLICATION DRAWINGS	NH	DR
1	04/05/2021	ISSUED FOR BID	SB	DR
0	03/19/2021	ISSUE FOR REVIEW	SB	DR
REV	DATE	DESCRIPTION	DRN	APP

Geosyntec
consultants

6770 SOUTH WASHINGTON AVENUE, SUITE 3
TITUSVILLE, FLORIDA 32780 USA
PHONE: 321.269.5880

TITLE: **EXISTING CONDITIONS SITE PLAN**

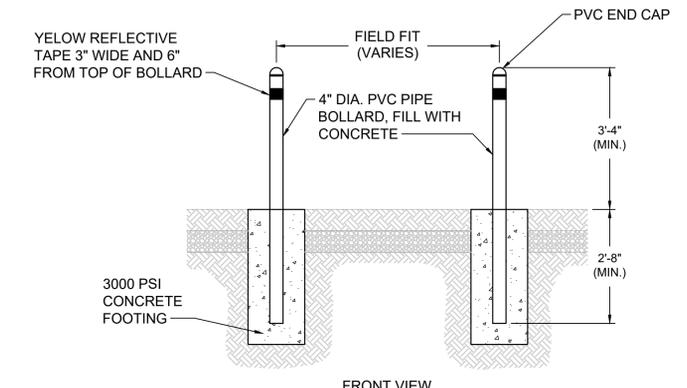
PROJECT: **PARCEL 3 & 5 TEMPORARY BEST MANAGEMENT PRACTICE PLAN**

SITE: **FORMER BRAMLETTE MGP SITE**

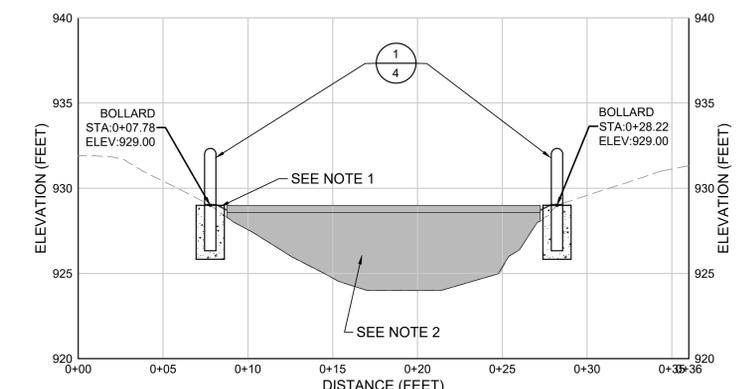
	<p>CERTIFICATE OF AUTHORIZATION</p> <p> GEOSYNTEC CONSULTANTS, INC. No. 773</p> <p>DATE OF AUTHORIZATION: 06/30/2021</p>	<p>DESIGN BY: SB</p> <p>DRAWN BY: SB/SG</p> <p>CHECKED BY: JG/NH</p> <p>REVIEWED BY: DR/JG/NH/JL</p> <p>APPROVED BY: DR/JL</p>	<p>DATE: JUNE 2021</p> <p>PROJECT NO.: FR7559.01.03</p> <p>FILE:</p> <p>DRAWING NO.: 3 OF 7</p>
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R:\P1950_BRAMLETTE\CD\BRIEF_PLE\SPR1950_C001_EXIST_COND_SITE_PLAN

REFERENCES: -TOPOGRAPHIC CONTOURS FOR GREENVILLE COUNTY FROM SC DNR (2013). -AERIAL PHOTOGRAPHY OBTAINED FROM ONLINE BING MAPS 2020 MICROSOFT CORP., 2020 MAXAR CNES (2020) DISTRIBUTION AIRBUS DS.



1
4 **DETAIL**
BOLLARD
SCALE: NOT TO SCALE



- NOTES:**
1. LOOSELY SECURE TOP AND BOTTOM OF TYPE I TURBIDITY CURTAIN TO BOLLARDS WITH CHAIN.
 2. TYPE I TURBIDITY CURTAIN WITH FILTER FABRIC SKIRT. TURBIDITY CURTAIN SHALL HAVE A 12-INCH TALL IMPERMEABLE OIL BOOM WITH 6-INCH EXPANDED POLYSTYRENE FILL FLOATS WITH FACTORY INSTALLED GROMMETS OR EQUIVALENT. FILTER FABRIC HEIGHT BELOW THE IMPERMEABLE OIL BOOM SHALL BE A MINIMUM OF 3-FEET.

A
4 **SECTION**
SILT CURTAIN
SCALE: NOT TO SCALE

2	06/30/2021	SITE APPLICATION DRAWINGS	NH	DR
1	04/05/2021	ISSUED FOR BID	SB	DR
0	03/19/2021	ISSUE FOR REVIEW	SB	DR
REV	DATE	DESCRIPTION	DRN	APP

6770 SOUTH WASHINGTON AVENUE, SUITE 3
TITUSVILLE, FLORIDA 32780 USA
PHONE: 321.269.5880

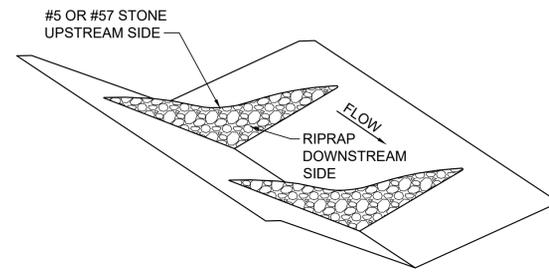
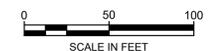
TITLE: **TURBIDITY CURTAIN PLAN AND DETAILS**

PROJECT: **PARCEL 3 & 5 TEMPORARY BEST MANAGEMENT PRACTICE PLAN**

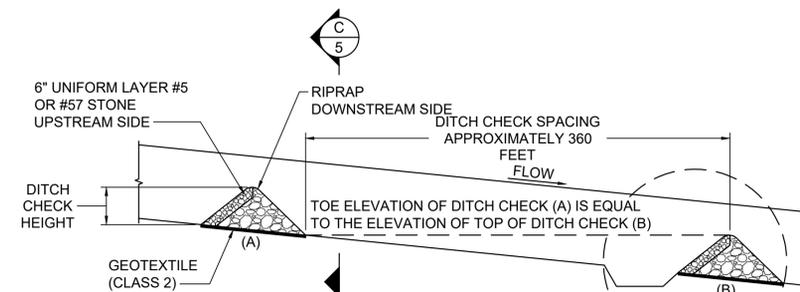
SITE: **FORMER BRAMLETTE MGP SITE**

	CERTIFICATE OF AUTHORIZATION	
	DESIGN BY: SB	DATE: JUNE 2021
	DRAWN BY: SB/SG	PROJECT NO.: FR7559.01.03
	CHECKED BY: JG/NH	FILE:
REVIEWED BY: DR/JG/NH/JL	DRAWING NO.:	
APPROVED BY: DR/JL	4 OF 7	

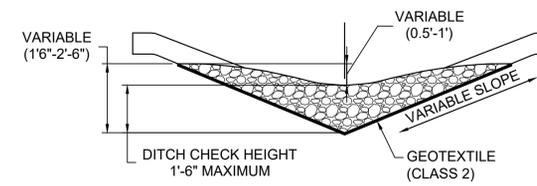
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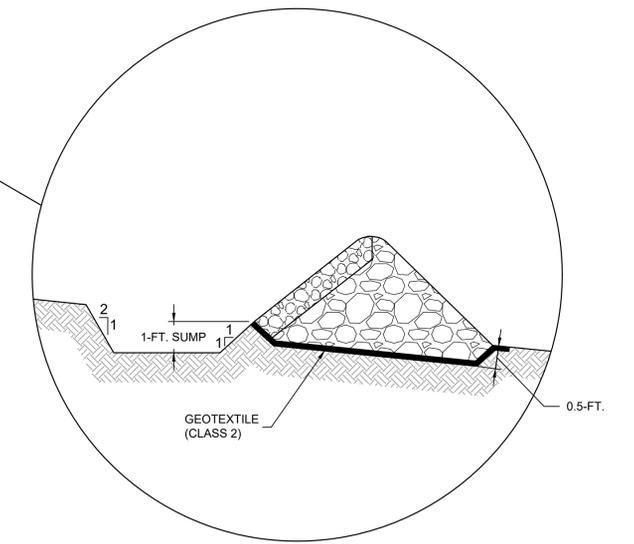
2
5 DETAIL
DITCH CHECK ISOMETRIC VIEW
SCALE: NOT TO SCALE



B
5 SECTION
DITCH CHECK ELEVATION VIEW
SCALE: NOT TO SCALE



C
5 SECTION
DITCH CHECK END VIEW
SCALE: NOT TO SCALE



NOTES:

1. PLACE A NON-WOVEN GEOTEXTILE FABRIC MEETING AASHTO M288 CLASS 2 BENEATH THE ROCK PRIOR TO INSTALLATION OF THE ROCK.
2. RIPRAP SHALL BE CLASS A.
3. PLACE RIPRAP BY HAND.
4. PLACE 6" UNIFORM LAYER OF AGGREGATE NO. 5 OR NO. 57 STONE ON THE UPSTREAM FACE OF ROCK DITCH CHECK.
5. THE UPSTREAM AND DOWNSTREAM DITCH CHECK SLOPES SHALL BE NO STEEPER THAN 2:1.
6. HEIGHT OF DITCH CHECK SHALL BE NO MORE THAN 1.5 FEET.
7. REMOVE COLLECTED SEDIMENT UPSTREAM OF DITCH CHECK AS DETERMINED BY THE ENGINEER.
8. FINAL CHECK DAM LOCATION WILL BE DETERMINED IN THE FIELD BY ENGINEER.
9. ROCK DITCH CHECKS SHALL HAVE A MINIMUM TOP FLOW LENGTH OF 2-FEET.
10. REMOVED SEDIMENT WILL BE PROPERLY CHARACTERIZED AND DISPOSED OFF SITE.

2	06/30/2021	SITE APPLICATION DRAWINGS	NH	DR
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0	03/19/2021	ISSUE FOR REVIEW	SB	DR
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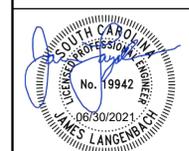
DUKE ENERGY
CAROLINAS

6770 SOUTH WASHINGTON AVENUE, SUITE 3
TITUSVILLE, FLORIDA 32780 USA
PHONE: 321.269.5880

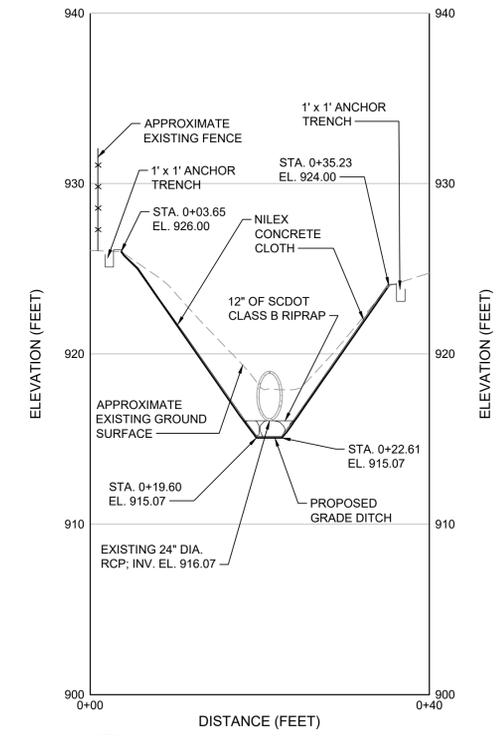
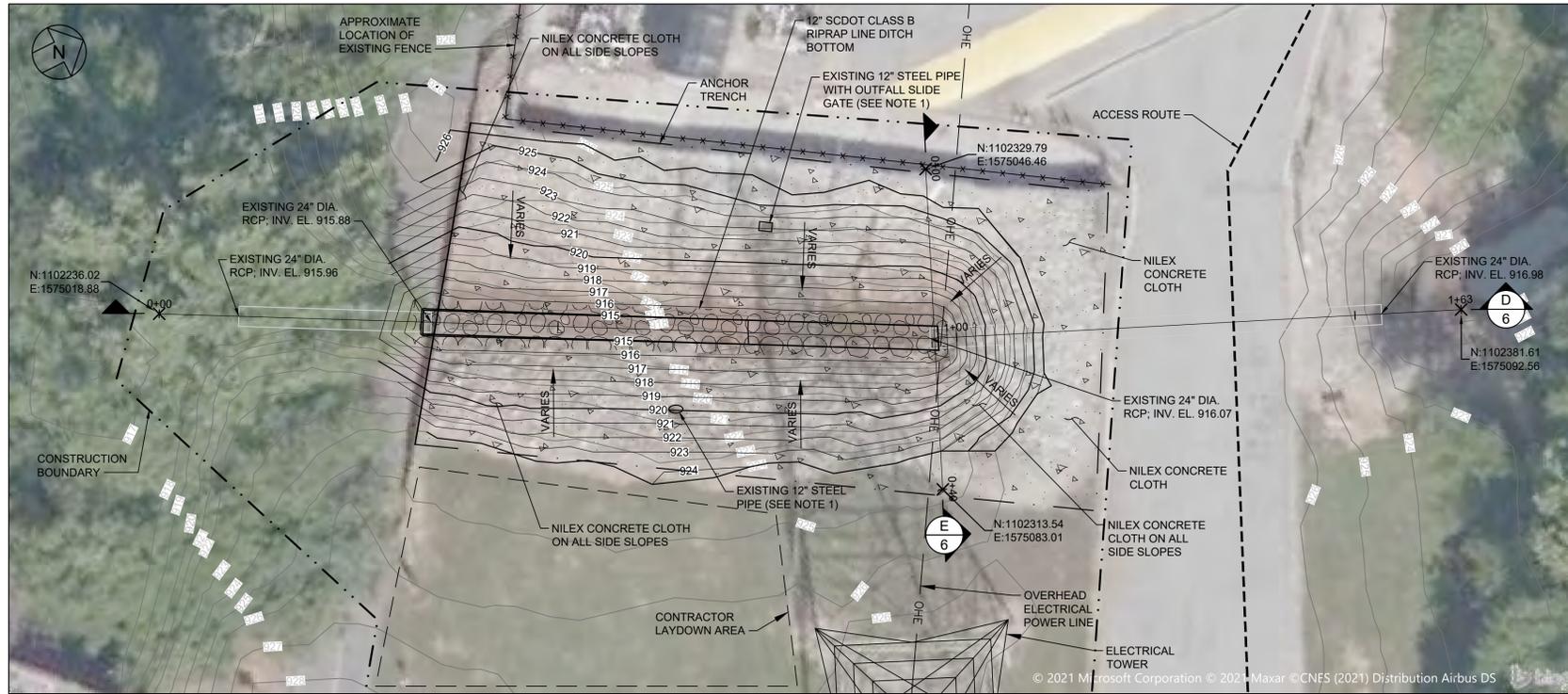
TITLE: PERMEABLE ROCK CHECK DAM PLAN AND DETAILS

PROJECT: PARCEL 3 & 5 TEMPORARY BEST MANAGEMENT PRACTICE PLAN

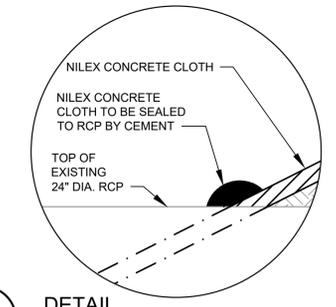
SITE: FORMER BRAMLETTE MGP SITE



DESIGN BY: SB	DATE: JUNE 2021
DRAWN BY: SB/SG	PROJECT NO.: FR7559.01.03
CHECKED BY: JG/NH	FILE:
REVIEWED BY: DR/JG/NH/JL	DRAWING NO.: 5 OF 7
APPROVED BY: DR/JL	

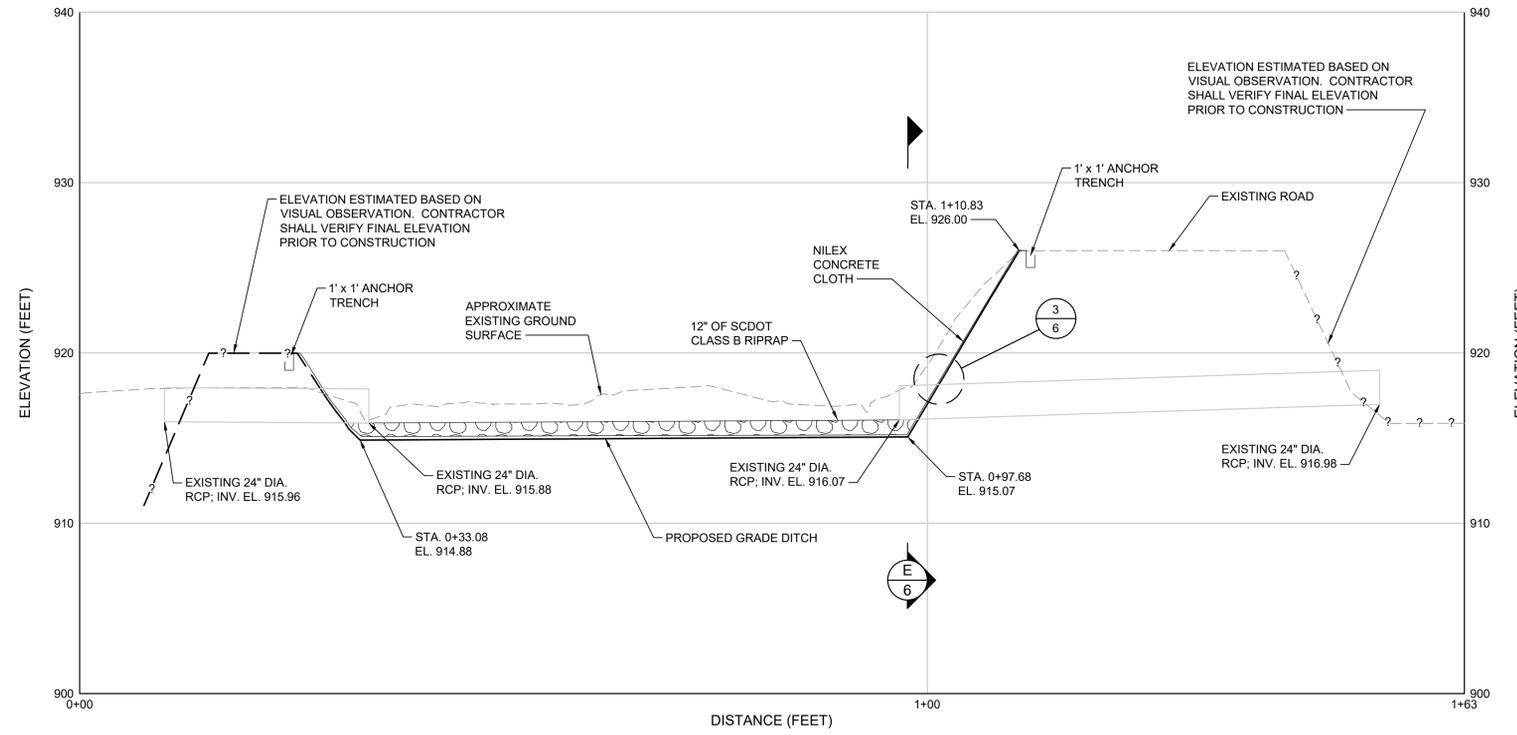


SECTION 6
PROPOSED LINED DITCH
 HORIZ. SCALE IN FEET: 0 10 20
 VERTICAL EXAGGERATION = 2X



DETAIL 3
CONCRETE CLOTH PIPE SEAM
 SCALE: NOT TO SCALE

- NOTES:**
1. LOCATION OF INLET PIPES ARE ESTIMATED BASED ON VISUAL OBSERVATION. CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION.
 2. PROPOSED DITCH TO BE LINED WITH NILEX CONCRETE CLOTH. DITCH BOTTOM WIDTH TO BE OVERLAIN BY 12\"/>

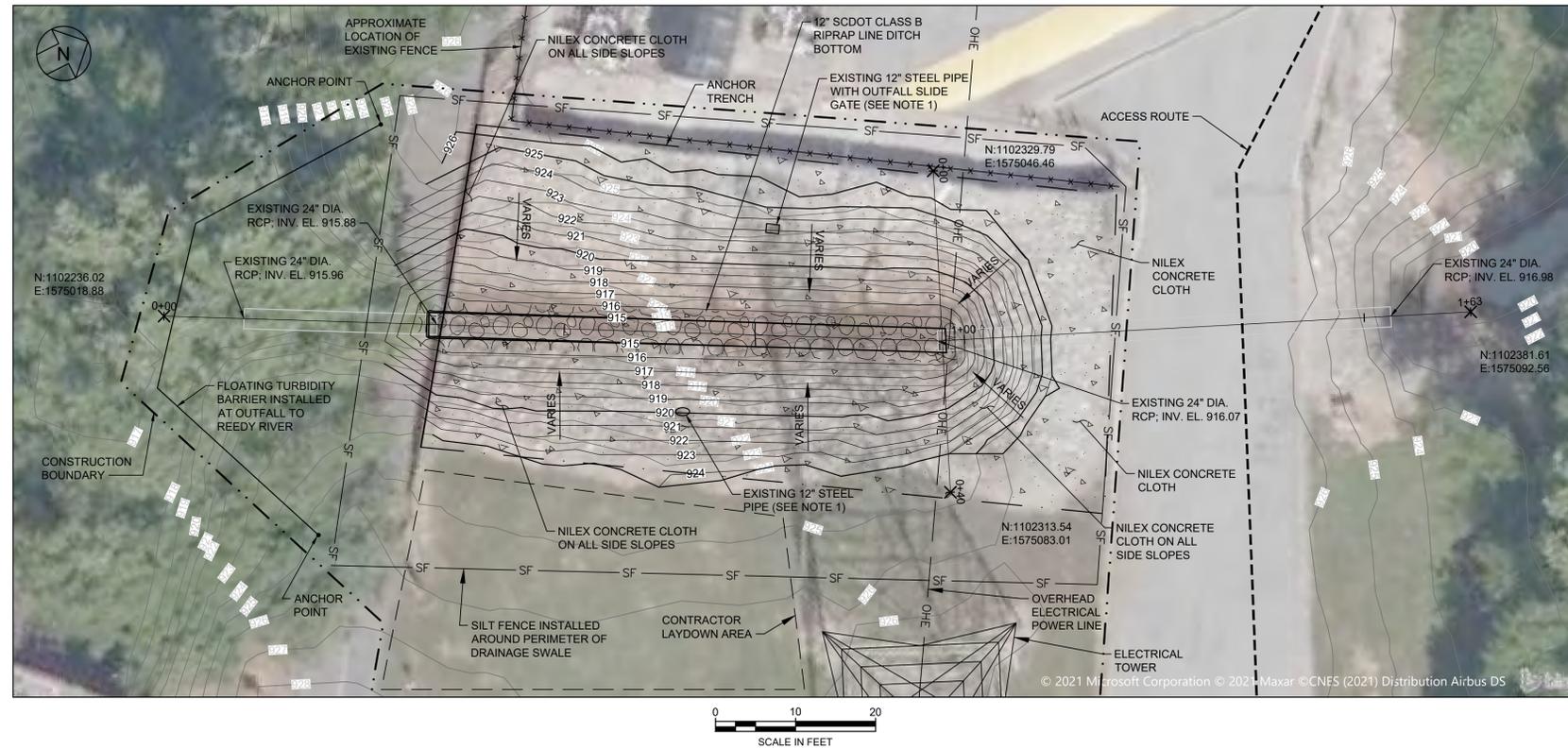


SECTION D
PROPOSED LINED DITCH
 HORIZ. SCALE IN FEET: 0 10 20
 VERTICAL EXAGGERATION = 2X

2	06/30/2021	SITE APPLICATION DRAWINGS	NH	DR
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0	03/19/2021	ISSUE FOR REVIEW	SB	DR
REV	DATE	DESCRIPTION	DRN	APP

6770 SOUTH WASHINGTON AVENUE, SUITE 3 TITUSVILLE, FLORIDA 32780 USA PHONE: 321.269.5680			
TITLE: RIP RAP DITCH RESURFACING			
PROJECT: PARCEL 3 & 5 TEMPORARY BEST MANAGEMENT PRACTICE PLAN			
SITE: FORMER BRAMLETTE MGP SITE			
	CERTIFICATE OF AUTHORIZATION 	DESIGN BY: SB DRAWN BY: SB/SG CHECKED BY: JG/NH REVIEWED BY: DR/JG/NH/JL APPROVED BY: DR/JL	DATE: JUNE 2021 PROJECT NO.: FR7559.01.03 FILE: DRAWING NO.: 6 OF 7

R:\P1950_BRAMLETTE\DRAWING\RESURFACING\10262021\SEC BRAMLETTE SITE GEOSYNTEC - GEOWORK FOR DITCH



- NOTES:**
1. ALL EROSION AND SEDIMENT CONTROL BMPs SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CITY OF GREENVILLE EROSION PREVENTION AND SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS AS WELL AS IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (SCDHEC) STORM WATER MANAGEMENT BMP HANDBOOK.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SWPPP AND SHALL RECEIVE SWPPP APPROVAL FROM CITY PRIOR TO THE BEGINNING OF ANY CONSTRUCTION ACTIVITIES.



Standard Detail: 39:00
Version: 5-18-16

Engineering Division

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

1. The City of Greenville Construction Inspection Bureau shall be notified by the permit holder at (864)467-8890 a minimum of 72 hours prior to beginning construction. A Pre-Construction Conference must be held for each construction site with an approved On-Site SWPPP prior to the implementation of construction activities.
2. Sediment and erosion control devices shall be installed and functioning prior to beginning any project earth disturbing activities.
3. All sediment and erosion controls shall be inspected until construction is complete, the site is permanently stabilized, and the Notice of Termination (NOT) is filed with SCDHEC.
4. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been permanently stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is permanently stabilized.
5. All sediment and erosion control devices shall be inspected once every seven (7) calendar days. Damaged, ineffective, or incorrectly installed devices shall be repaired or replaced, as necessary, within 48 hours of identification.
6. All inspection records shall be documented in written form and catalogued in a record keeping binder for the project (SWPPP Book). The City may require electronic submission of weekly inspection records.
7. A rain gauge shall be installed at the project area, and cumulative precipitation depth shall be recorded with weekly inspection documentation. All rainfall events 0.5" and greater, as recorded onsite or by a weather station in reasonable proximity to the project, shall also be documented with the weekly inspection reports.
8. All erosion prevention and sediment control plans and inspection documentation (e.g., SWPPP Book, certification statements, inspection records, maintenance records, and rainfall data) shall be retained at the construction site or, if approved by the City, at a nearby location easily accessible during normal business hours, from the date of commencement of construction activities to the date that final stabilization is reached. All plans and documents shall be updated as required per SC NPDES General Permit SCR100000.
9. If existing BMPs need to be modified or if additional BMPs are necessary to comply with the requirements of this permit and/or SC's Water Quality Standards, implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event is impracticable, the situation must be documented in the SWPPP and alternative BMPs must be implemented as soon as reasonably possible.
10. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days after work has ceased, except as stated below:
 - a. Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions stabilization measures must be initiated as soon as practicable.
 - b. Where construction activity on a portion of the site is temporarily ceased and earth disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the site.
11. The site shall be considered permanently stabilized when all surface disturbing activities are complete and either of the two following criteria is met:
 - a. A uniform (e.g., evenly disturbed, without large bare areas) perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas not covered by permanent structures, or

- b. Equivalent permanent stabilization measures (such as riprap, gabions, or geotextiles) have been employed.
12. A stabilized construction entrance shall be installed and maintained on the project site. Storm water inlet protection shall be provided for all inlets (upstream and downstream) within 50 ft. of the construction entrance or disturbance (on both sides of the public roadway).
 13. All existing and new storm water structures, affected by this project, shall be inspected and maintained clean of accumulated demolition debris or sediments.
 14. Disposal of all recovered sediments and construction debris shall be in accordance with all applicable City, State and Federal Regulations. No sediment or construction debris shall be flushed down the storm water system.
 15. During the course of construction activities, erosion and sediment controls shall be used to prevent tracking of mud and/or sediment accumulation on public roadways (including street gutters), sediment laden runoff from entering into existing storm water system inlets or depositing on adjacent properties, and airborne dust migration off-site. The contractor shall daily remove mud/soil from pavement, by sweeping or vacuuming, as may be required.
 16. To secure the project site, locate limits of construction, protect areas that are to remain undisturbed, and prevent migration of construction debris, orange construction fencing shall be installed around areas not requiring silt fencing. Any accumulation of construction debris on public roadways or adjacent properties shall be removed within 24 hours. Care shall be taken when installing construction fencing to not obscure oncoming traffic at intersections, adjacent driveways and the project construction entrance.
 17. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized immediately after the utility installation.
 18. Silt fence shall be installed along lines of equal elevation. Silt fencing shall be installed no closer than 5 feet downhill from the toe of any slope.
 19. All Waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. All WoS shall be clearly delineated on the erosion prevention and sediment control plans.
 20. Project setback buffers shall be located a minimum of 30 ft. measured from the top of stream bank or edge of wetland, unless otherwise approved by the City Engineer. All setbacks shall be clearly delineated on the erosion prevention and sediment control plans.
 21. A single row of silt fencing shall be installed along all setback buffers that meet the minimum requirements.
 22. A double row of silt fencing shall be installed in all areas where a minimum setback buffer cannot be maintained between the disturbed area and the water body or wetland. Double row of silt fencing shall be placed no closer than 5 ft. downhill from the toe of any fill area and a minimum of 5 ft. spacing shall be maintained between silt fence rows. A minimum 5 ft. buffer should be maintained between the last row of silt fence and all water bodies and wetlands.
 23. Stockpiles of useable or waste materials shall be surrounded by a row of silt fence at all times. Stockpiles that are undisturbed for more than fourteen (14) days shall have appropriate stabilization measures installed. Stockpiles shall be placed a minimum of 50 feet away from stormwater flows, stormwater inlet structures, drainage courses, adjacent property and public roadways.
 24. Litter, construction debris, oils, fuels, building products with significant potential for impact (such as stockpiles of freshly treated lumber), and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in stormwater discharges.
 25. Temporary diversion berms, ditches, or slope drains shall be provided for all slopes 3:1 or steeper and as otherwise needed during construction to protect areas from upslope runoff and/or to divert sediment laden water to appropriate traps or stable outlets.
 26. Slopes 3:1 or steeper and/or exceeding eight (8) vertical feet shall be stabilized with staked in place sod or synthetic/vegetative mats in addition to hydro seeding as soon as practical but no more than 7 calendar days after land disturbing activities on the slope have permanently or temporarily ceased.
 27. Cat track or surface roughening is required for all slopes 3:1 or steeper prior to seeding and laying of synthetic or vegetative mats. Cat tracking or surface roughening shall provide a surface with furrows running cross slope, parallel with slope contours, and perpendicular to surface runoff.

28. Portable toilet facilities shall not be located within 20 feet of any storm water structure and/or 50 feet of any water course, wetland area, stream, floodplain, or lake.
29. The following discharges are prohibited:
 - a. Wastewater from washout of concrete, unless managed by an appropriate control
 - b. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials
 - c. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance
 - d. Soaps or solvents used in vehicle and equipment washing during construction.
30. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent treatment prior to discharge.
31. Minimize the discharge of pollutants from dewatering of trenches and excavated areas. These discharges are to be routed through appropriate BMPs (sediment basin, filter bag, etc.).
32. Residential subdivisions require erosion control features for infrastructure as well as for individual lot construction. Individual property owners shall follow these plans during construction or provide an individual plan in accordance with S.C. Reg. 72-300 et seq. and SCR100000.
33. Properly signed and sealed record drawings of the stormwater plan and a signed and sealed detention basin record drawings shall be submitted to the City within 30 days of permanent stabilization and prior to issuance of project acceptance by the City.

City of Greenville | P.O. Box 2207 | Greenville, SC 29602 | www.greenvillesc.gov

2	06/30/2021	SITE APPLICATION DRAWINGS	NH	DR
1	04/05/2021	ISSUED FOR BID	SB	DR
0	03/19/2021	ISSUE FOR REVIEW	SB	DR
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Geosyntec
consultants



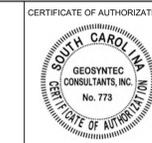
6770 SOUTH WASHINGTON AVENUE, SUITE 3
TITUSVILLE, FLORIDA 32780 USA
PHONE: 321.269.5880

TITLE: **EROSION AND SEDIMENT CONTROL PLAN**

PROJECT: **PARCEL 3 & 5 TEMPORARY BEST MANAGEMENT PRACTICE PLAN**

SITE: **FORMER BRAMLETTE MGP SITE**

DESIGN BY: SB	DATE: JUNE 2021
DRAWN BY: SB/SG	PROJECT NO.: FR7559.01.03
CHECKED BY: JG/NH	FILE:
REVIEWED BY: DR/JG/NH/JL	DRAWING NO.: 7 OF 7
APPROVED BY: DR/JL	



AMENDMENT

THIS AMENDMENT, made as of December 17, 2020, by and between CSX TRANSPORTATION, INC., a Virginia corporation, whose mailing address is 500 Water Street, Jacksonville, Florida 32202, hereinafter called "Railroad," and DUKE ENERGY CAROLINAS, LLC, whose address is 526 Church Street, Charlotte, NC 28202, hereinafter called "Licensee," WITNESSETH:

WHEREAS, Railroad and Licensee entered into an Agreement dated February 2, 2016 (the "Agreement"), for right-of-entry access to Railroad's corridor to address conditions relating to the CSXT Bramlette Road Site in Greenville, Greenville County, SC; and

WHEREAS, on December 09, 2020, Licensee submitted a written request to amend the Agreement to authorize additional work;

WHEREAS, CSXT has reviewed and approved Licensee's request, subject to the execution of this Amendment;

NOW THEREFORE, this Amendment will serve to amend the Agreement, between Railroad and Licensee, as follows:

1. The Work covered by the Agreement is hereby amended to include the additional activities described in Exhibit A-7, as illustrated in Exhibit B-7, both attached hereto and made a part hereof.
2. Except as provided in this Amendment, all other terms and conditions of the Agreement, as well as any prior executed Amendments, shall remain in effect.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be duly signed, sealed and delivered in duplicate.

CSX TRANSPORTATION, INC.

DUKE ENERGY CAROLINAS, LLC

By: _____

By: James R. Wells

Name: Coley J. Campbell

Name:  _____

Title: Sr. Manager of Environmental and Property Management

Title: Vice President, EHS

December 9, 2020
Former Bramlette Road MGP
CSXT EROE # CSX812078

Exhibit A-7

Duke Energy Carolinas LLC (Duke Energy) is conducting a remedial investigation (RI) at the site of the former Bramlette manufactured gas plant (MGP) located at 400 East Bramlette Road, Greenville, South Carolina (the Site). The RI is being conducted under a Responsible Party Voluntary Cleanup Contract (VCC 16-5857-RP) with the South Carolina Department of Health and Environmental Control (SCDHEC) dated July 29, 2016. Results of the investigation through April 2020 were summarized in a RI Report, which was submitted to the SCDHEC on June 26, 2020. An RI Work Plan Addendum (RIWP-A) for the Former Storm Water Conveyance Ditches was approved by SCDHEC on September 1, 2020 to complete assessment of MGP-related constituents in the historical ditches. That scope of work is in process and was detailed in Environmental Right of Entry (EROE) Amendment Exhibit A-6.

During completion of RI activities, some seeps were observed in the wetlands adjacent to the northeast boundary of the Vaughn landfill (Parcel 3) where the source of the seeps appeared to be coal tar residuals. Additionally, a surface biofilm which appeared to be a mixture of coal tar residuals, biofilm, and iron oxides was also observed within the wetlands, northeast of Parcel 3 and in the wetland area west of the Vaughn Landfill (**Figure 1**).

Based on the conditions recently observed at the Site, the following locations are identified that would benefit from the implementation of Best Management Practices (BMPs) to reduce potential for transport of the coal tar residuals, biofilm, and sediments offsite. These locations include:

- Parcel 3 – Surface water drainage ditch that bisects Vaughn landfill on Parcel 3; this drainage ditch conveys surface waters from wetlands immediately adjacent to the northeast boundary of the Vaughn Landfill to the southwest side of Parcel 3;
- Parcel 3 and 4 – Surface water drainage ditch that conveys water from the southwest side of Parcel 3 through Parcel 4 to surface water drainage ditch on Parcel 5; and
- Parcel 5 - Surface water drainage ditch on Parcel 5 upstream of the Reedy River discharge.

To reduce the potential for transport of the coal tar residuals, biofilm, and sediments offsite proposed site activities include:

1. Install BMPs on Parcel 3 in the areas shown on **Figure 2**. Parcel 3 BMPs include:

December 9, 2020
Former Bramlette Road MGP
CSXT EROE # CSX812078

- Remove vegetation and regrade the ditch that bisects the Vaughn Landfill.
 - Install and maintain a sediment trapping device, such as a turbidity curtain and/or containment boom, at locations within the channel that bisects the Vaughn Landfill and/or within the wetlands and ditches on Parcel 3.
 - i. Optional BMP: The effectiveness of the turbidity curtain and/or containment boom will be monitored over time. If the turbidity curtain and/or containment boom does not prove to be sufficiently effective and/or exhaustive maintenance efforts are required, the BMP may be replaced with a sediment trap and baffle system which would be installed in the channel the bisects the Vaughn Landfill. This BMP would include modifying the drainage channel downstream of the 18-inch concrete culvert by installing a baffle to trap floating coal tar residuals and biofilm and installing a control outlet weir to minimize the transport of sediments.
 - Install an optional solar-powered air diffuser as an enhancement to promote aerobic degradation of coal tar residuals and biofilm within the surface water passing through the ditch.
 - Install support structures such as floating risers and/or fixed I-beams within the channel to increase effectiveness of the BMP.
2. Install BMPs on Parcel 5 in the areas shown on **Figure 3**. Parcel 5 BMPs include:
- Install and maintain sediment trapping structures, such as rock check dams, within the surface water drainage upstream of the Reedy River.
3. Conduct routine operation and maintenance (O&M) of installed BMPs. Routine O&M is planned for a period of 5 years or until a Record of Decision (ROD) has been approved by SCDHEC. Frequency of O&M activities is to be determined based on effectiveness of the installed BMP. Planned O&M activities include but are not limited to:
- Visual inspection of installed structures (inspection frequency to be determined);
 - Removal of accumulated sediment from BMPs as necessary;

December 9, 2020

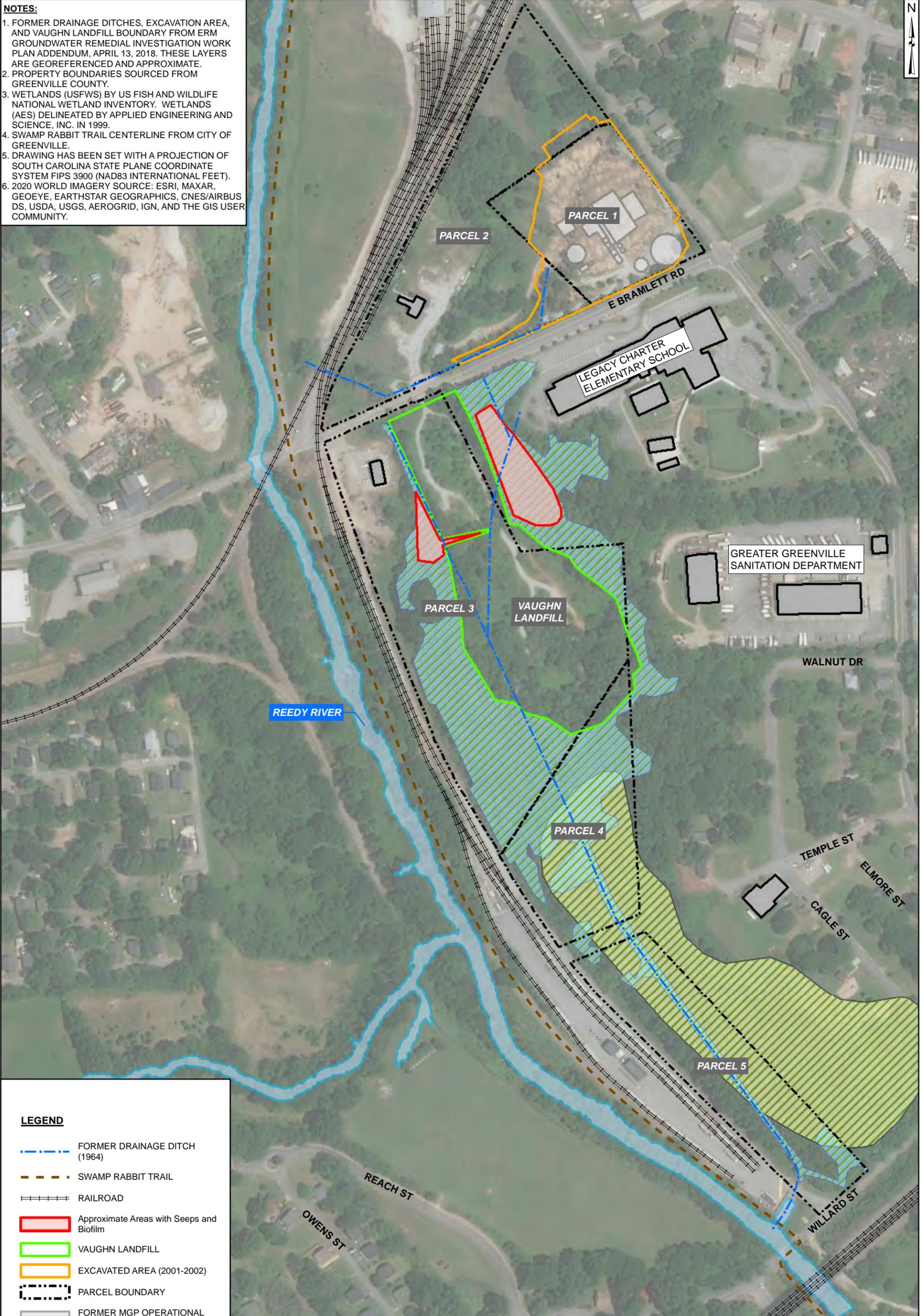
Former Bramlette Road MGP

CSXT EROE # CSX812078

- Adjust the BMPs to increase their effectiveness;
 - Repair/replacement of BMPs as necessary; and
 - Removal of beaver dams and control of nuisance wildlife as necessary to maintain efficacy of BMPs
4. Regrading, vegetation management, and removal of accumulated coal, coal tar, and clinkers from the surface water drainage ditch that conveys water from the southwest side of Parcel 3 through Parcel 4 to surface water drainage ditch on Parcel 5.
 5. Remove accumulated sediment from rip rap lined channel south of Transflo along Willard Street. Methods of sediment removal may include:
 - Jetting (pressure washing) and vacuum removal of sediments; and
 - Excavation and replacement of rip rap (if necessary) by track mounted excavator

Confirmation soil sampling may be conducted to verify complete removal of potentially affected sediments. Soil remaining in the rip rap lined ditch would be collected and analyzed for volatile organic compounds (VOCs) by USEPA Method 8260B and semivolatile organic compounds (SVOCs) by USEPA Method 8270E.

- NOTES:**
1. FORMER DRAINAGE DITCHES, EXCAVATION AREA, AND VAUGHN LANDFILL BOUNDARY FROM ERM GROUNDWATER REMEDIAL INVESTIGATION WORK PLAN ADDENDUM, APRIL 13, 2018. THESE LAYERS ARE GEOREFERENCED AND APPROXIMATE.
 2. PROPERTY BOUNDARIES SOURCED FROM GREENVILLE COUNTY.
 3. WETLANDS (USFWS) BY US FISH AND WILDLIFE NATIONAL WETLAND INVENTORY. WETLANDS (AES) DELINEATED BY APPLIED ENGINEERING AND SCIENCE, INC. IN 1999.
 4. SWAMP RABBIT TRAIL CENTERLINE FROM CITY OF GREENVILLE.
 5. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83 INTERNATIONAL FEET).
 6. 2020 WORLD IMAGERY SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY.



LEGEND

- . - . - FORMER DRAINAGE DITCH (1964)
- - - - - SWAMP RABBIT TRAIL
- RAILROAD
- Approximate Areas with Seeps and Biofilm
- VAUGHN LANDFILL
- EXCAVATED AREA (2001-2002)
- PARCEL BOUNDARY
- FORMER MGP OPERATIONAL STRUCTURES
- BUILDING
- SURFACE WATER EXTENTS
- WETLANDS (AES)
- WETLANDS (USFWS)





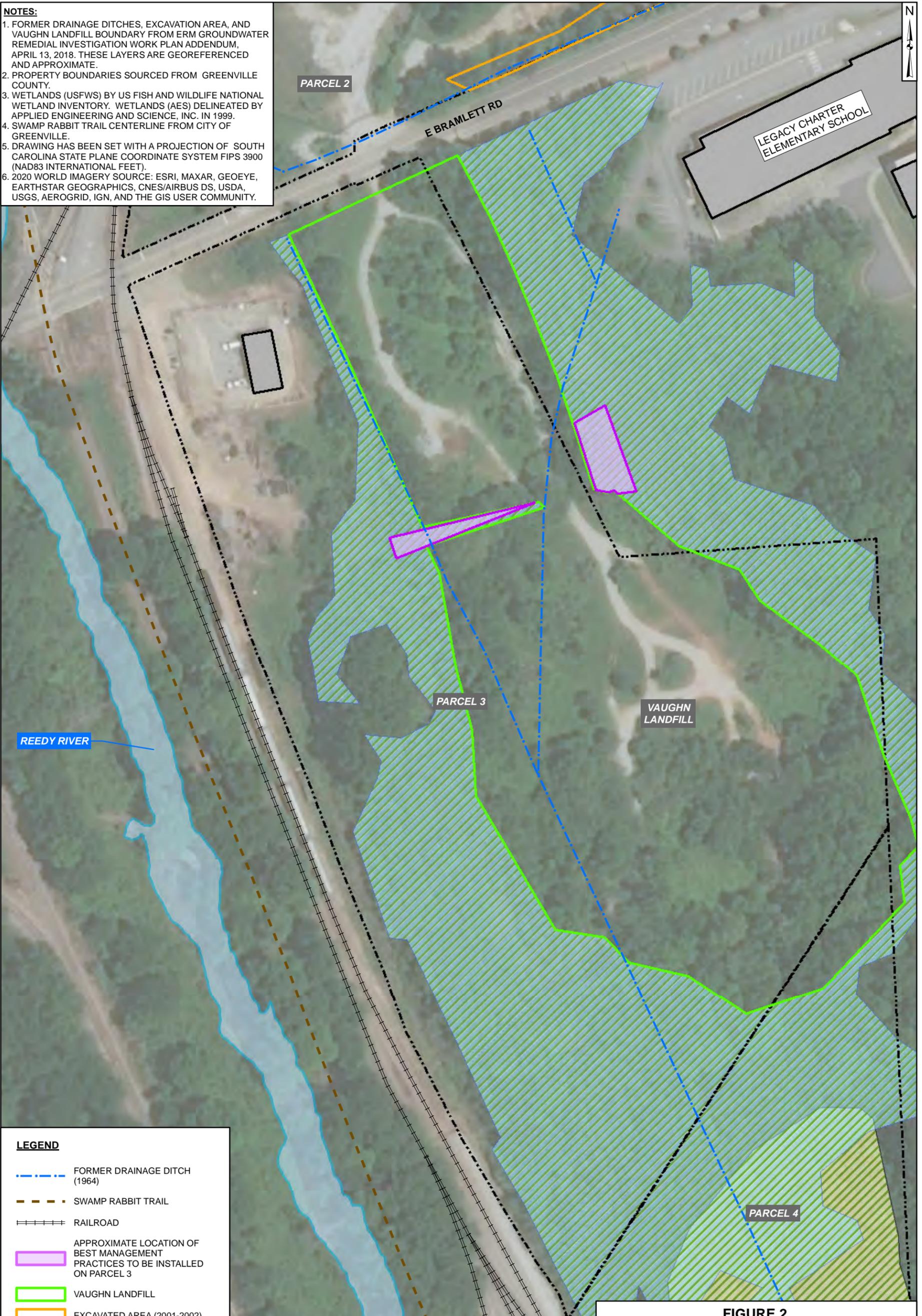
DRAWN BY: MAH	DATE: 12/3/2020
REVISED BY: DWR	DATE: 12/3/2020
CHECKED BY: DWR	
APPROVED BY: APB	
PROJECT MANAGER: APB	





FIGURE 1
PARCEL LAYOUT MAP
FORMER BRAMLETTE ROAD MGP SITE
CSX - ENVIRONMENTAL RIGHT OF ENTRY (EROE)
EAST BRAMLETTE ROAD
GREENVILLE, SOUTH CAROLINA

- NOTES:**
1. FORMER DRAINAGE DITCHES, EXCAVATION AREA, AND VAUGHN LANDFILL BOUNDARY FROM ERM GROUNDWATER REMEDIAL INVESTIGATION WORK PLAN ADDENDUM, APRIL 13, 2018. THESE LAYERS ARE GEOREFERENCED AND APPROXIMATE.
 2. PROPERTY BOUNDARIES SOURCED FROM GREENVILLE COUNTY.
 3. WETLANDS (USFWS) BY US FISH AND WILDLIFE NATIONAL WETLAND INVENTORY. WETLANDS (AES) DELINEATED BY APPLIED ENGINEERING AND SCIENCE, INC. IN 1999.
 4. SWAMP RABBIT TRAIL CENTERLINE FROM CITY OF GREENVILLE.
 5. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83 INTERNATIONAL FEET).
 6. 2020 WORLD IMAGERY SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY.



LEGEND

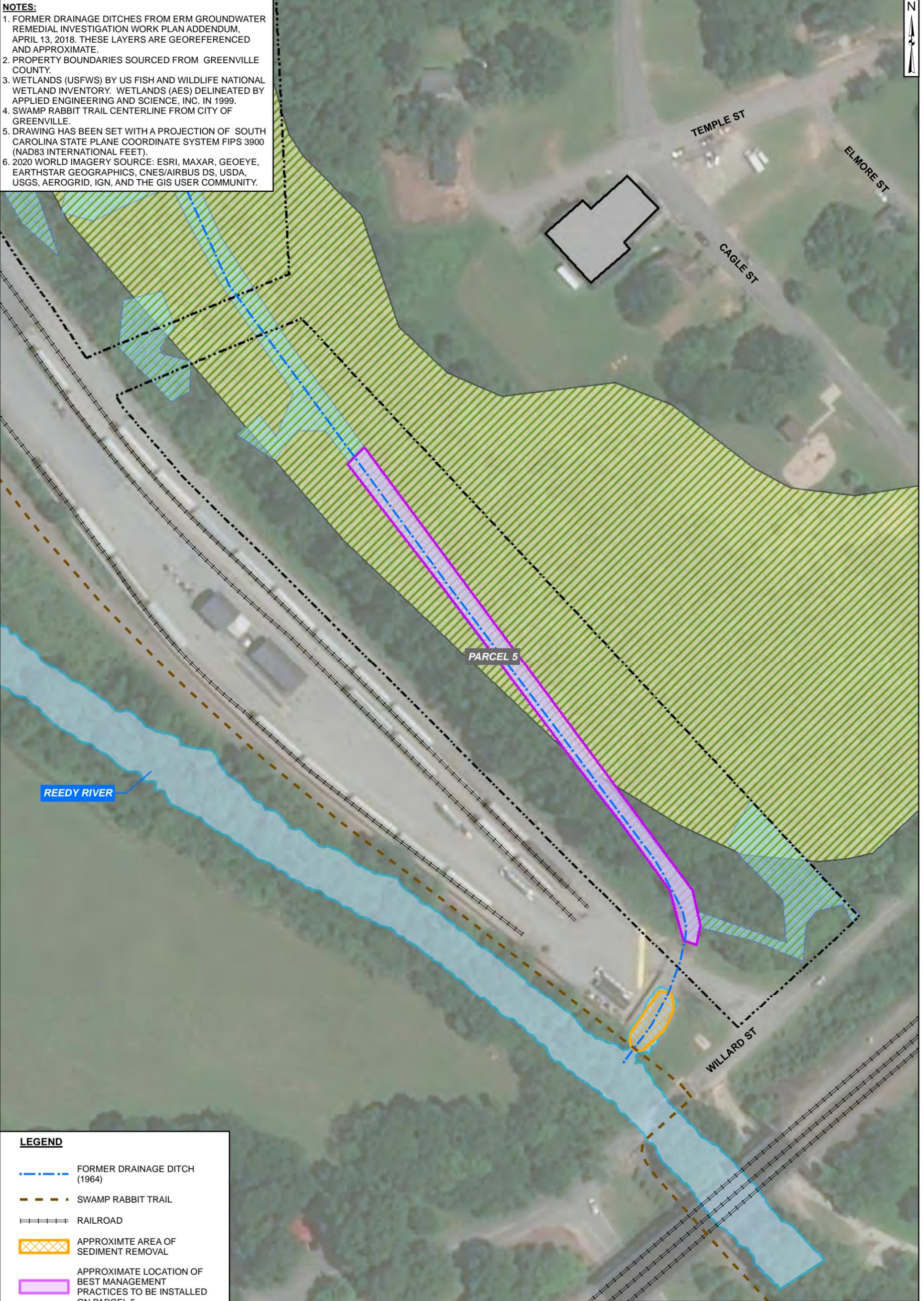
- . - . - . FORMER DRAINAGE DITCH (1964)
- - - - - SWAMP RABBIT TRAIL
- RAILROAD
- APPROXIMATE LOCATION OF BEST MANAGEMENT PRACTICES TO BE INSTALLED ON PARCEL 3
- VAUGHN LANDFILL
- EXCAVATED AREA (2001-2002)
- PARCEL BOUNDARY
- BUILDING
- SURFACE WATER EXTENTS
- WETLANDS (AES)
- WETLANDS (USFWS)

0 100
Feet

DRAWN BY: MAH	DATE: 12/3/2020
REVISED BY: DWR	DATE: 12/3/2020
CHECKED BY: DWR	
APPROVED BY: APB	
PROJECT MANAGER: APB	

FIGURE 2
PARCEL 3 - BEST MANAGEMENT PRACTICE LOCATIONS
FORMER BRAMLETTE ROAD MGP SITE
CSX - ENVIRONMENTAL RIGHT OF ENTRY (EROE)
EAST BRAMLETTE ROAD
GREENVILLE, SOUTH CAROLINA

- NOTES:**
1. FORMER DRAINAGE DITCHES FROM ERM GROUNDWATER REMEDIAL INVESTIGATION WORK PLAN ADDENDUM, APRIL 13, 2018. THESE LAYERS ARE GEOREFERENCED AND APPROXIMATE.
 2. PROPERTY BOUNDARIES SOURCED FROM GREENVILLE COUNTY.
 3. WETLANDS (USFWS) BY US FISH AND WILDLIFE NATIONAL WETLAND INVENTORY. WETLANDS (AES) DELINEATED BY APPLIED ENGINEERING AND SCIENCE, INC. IN 1999.
 4. SWAMP RABBIT TRAIL CENTERLINE FROM CITY OF GREENVILLE.
 5. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83 INTERNATIONAL FEET).
 6. 2020 WORLD IMAGERY SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY.



LEGEND

- - - - - FORMER DRAINAGE DITCH (1964)
- - - - - SWAMP RABBIT TRAIL
- = = = = = RAILROAD
- X X X X APPROXIMATE AREA OF SEDIMENT REMOVAL
- APPROXIMATE LOCATION OF BEST MANAGEMENT PRACTICES TO BE INSTALLED ON PARCEL 5
- PARCEL BOUNDARY
- BUILDING
- SURFACE WATER EXTENTS
- WETLANDS (AES)
- WETLANDS (USFWS)

0 100 Feet	
DRAWN BY: MAH	DATE: 12/3/2020
REVISED BY: DWR	DATE: 12/3/2020
CHECKED BY: DWR	
APPROVED BY: APB	
PROJECT MANAGER: APB	

FIGURE 3
PARCEL 5 - BEST MANAGEMENT PRACTICE LOCATIONS
FORMER BRAMLETTE ROAD MGP SITE
CSX - ENVIRONMENTAL RIGHT OF ENTRY (EROE)
EAST BRAMLETTE ROAD
GREENVILLE, SOUTH CAROLINA



STORMWATER PERMIT APPLICATION

206 South Main Street
P.O. Box 2207 (Zip Code 29602)
Greenville, South Carolina 29601

Engineering: (864) 467-4400

Building Codes: (864) 467-4550

PROJECT INFORMATION:

Project Name: Interim Surface Water Best Management Practice Plan

Street / Location: East Bramlett Road, Greenville, South Carolina

Tax Map Number: 0138000100100 & 0054000300100 & 0054000600100

Total Acreage of Project Site: 20.3 (acres)

Disturbed Area: ~2,500 (sf) ~0.06 (acres)

Existing Impervious Area: 0 (sf) Proposed Total Impervious Area: ~2,500 (sf)

PERMIT TYPE: (Select One)

[] Soil Erosion and Sediment Control Permit \$50

[] Minor Stormwater Permit \$100

[x] Major Stormwater Permit \$150

PLAN PREPARER:

Name: Jim Langenbach Title: Senior Principal Engineer
(Please print) (Please print)

Professional License: South Carolina Professional Engineer / 19942
(Type/Number)

Mailing Address: 6770 South Washington Avenue, Suite 3
Titusville, Florida 32780 (Please print)

Phone: 321-269-5880 Email: JLangenbach@Geosyntec.com

Signature: [Handwritten Signature] Date: 7/14/2021



MAJOR STORMWATER PERMIT CHECKLIST

Project Name: Interim Surface Water Best Management Practice Plan

Street / Location: East Bramlett Road, Greenville, South Carolina

Tax Map Number: 0138000100100 & 0054000300100 & 0054000600100

(Mark "N/A" if required information does not apply to the project.)

APPLICATION REQUIREMENTS:	
X	Major Stormwater Permit Application
X	Check made payable to the City of Greenville for \$150
X	Major Stormwater Permit Checklist
N/A	SCDHEC Notice of Intent (NOI)
X	Major Stormwater Permit Report
N/A	Stormwater Pollution Prevention Plan (SWPPP) book. Applicable for sites disturbing 1 acre or more and sites that are part of a Larger Common Plan with an ultimate disturbance of 1 acre or more.
N/A	Check made payable to SCDHEC for \$125
X	Prepared by a Professional Engineer registered in the state of South Carolina.
MAJOR STORMWATER PERMIT REPORT	
X	A written narrative description of the proposed phasing (construction sequencing) of development of the site.
X	A general description of the existing and proposed stormwater management system including all discharge points, collection, conveyance, and storage facilities.
X	A general description of the proposed Low Impact Development (LID) or water quality features.
X	Supporting maps to include a FIRMETTE, USGS quadrangle map, and NRCS soils map.
X	A vicinity map identifying the Parcel Identification Numbers of all parcels comprising the proposed development.
X	A capacity analysis of the stormwater management system components onsite.
X	An offsite downstream capacity analysis is required by the Administrator or designee. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
X	Design calculations for sediment and erosion control measures with the drainage area tributary to each sediment control measure delineated on an overall map.
X	Design calculations verifying that the proposed LID or water quality feature meets the treatment requirements and has the appropriate total flow rate for which the associated pipe network has been designed. Total flow rate includes treated flow and bypass flow.
N/A	Supporting documentation for method used to meet 50% hydrocarbon removal.

X	Drainage map identifying contributing areas to each LID of water quality device.
N/A	Descriptions of off-site fill or borrow volumes, locations, and methods of stabilization.
N/A	A color coded map depicting the existing impervious surfaces and total new impervious surfaces along with a summary table.
X	Any federal, state and local requirements including but not limited to the applicable SCDHEC Notice of Intent, ACOE Nationwide Permit, FEMA Letters of Map Change, jurisdictional wetland determination and endangered species permitting.
X	An area drainage plan locating the proposed development in the watershed.
X	Pre-development and post-development discharge rate summary tables to include curve numbers and impervious areas.
X	A predevelopment and post development drainage area maps prepared in accordance with the requirements of the Stormwater Ordinance.
X	A report describing the hydrologic and hydraulic analysis performed for the project in accordance with the requirements of the Stormwater Ordinance.
N/A	Hydrologic and hydraulic analysis report for detention facilities in accordance with the requirements of the Stormwater Ordinance.
N/A	A copy of a South Carolina Dam Safety Permit or a letter stating that a Dam Safety Permit is not required if the development includes a dam.
X	An exhibit(s) for review which displays all deed or plat restrictions of record or to be recorded for the stormwater management system.
X	Fully executed maintenance agreements and plan for stormwater facilities.
MAJOR STORMWATER PERMIT PLAN	
X	Tax map number(s)
X	North arrow and graphical scale bar
X	Property boundaries, adjacent streets and associated rights-of-way
X	Limits of disturbance
X	Survey grade data to include proposed and existing elevations tied to the North American Vertical Datum of 1988. Horizontal datum survey control shall be South Carolina State Plane NAD83 HARN International Feet coordinates. Statement identifying basis of vertical datum.
X	Offsite and onsite drainage features, overland flow paths, stormwater management system components including size, material, location and elevations. Include all applicable details, SCDOT details are preferred by the City.
X	Location and details of proposed LID and water quality devices including hydrocarbon removal.
N/A	Existing and proposed utilities which may include septic systems and wells.
X	Adjoining lakes, streams, and other major drainage ways.
X	Cross-section details for the stormwater management facility.
X	Regulatory Floodplains, wetland boundaries, buffer areas.
X	Elevations of lowest floor or lowest adjacent grade for structures in or near the 100-year floodplain. Reference Section 19-7.7 for more specific requirements based on impact.

X	Location and description, including standard details, of all sediment control measures including but not limited to construction entrance, silt fence, inlet protection, dust control, stockpile areas management, concrete washout areas, and sediment basins/traps and corresponding outlet details.
X	Location and description of all soil stabilization and erosion control measures, including seeding mixtures and rates, types of sod or vegetation, method of seedbed preparation, expected seeding dates, type and rate of lime and fertilizer application, kind and quantity of mulching for both temporary and permanent vegetative control measures, and types of non-vegetative stabilization measures.
N/A	Phased soil erosion and sediment control plans as required to meet the requirements of this ordinance and to mitigate offsite soil migration and erosion throughout construction.
X	Standard City of Greenville Erosion and Sediment Control notes. Latest Sediment and Erosion Control notes can be found at: www.greenvillesc.gov/PublicWorks/EngineeringDSM.aspx

A provision of all required information is not a guarantee of permit approval. This list contains the minimum amount of information necessary for the review. The City of Greenville may require supplemental reports, data or information as necessary. If you have questions concerning this checklist please contact the City of Greenville Engineering Division at (864) 467-4400.

Certification statement:

I certify to the best of my knowledge that this permit application contains all information required as referenced on this checklist.

Name: Jim Langenbach Title: Senior Principal Engineer
(Please print) (Please print)

Mailing Address: 6770 South Washington Avenue, Suite 3, Titusville, Florida 32780
(Please print)



engineers | scientists | innovators

INTERIM SURFACE WATER BEST MANAGEMENT PRACTICE PLAN

FORMER BRAMLETTE MGP SITE STORMWATER REPORT

To Support Major Stormwater Permit Application to:

City of Greenville, South Carolina
206 South Main Street
Greenville, South Carolina 29601

Prepared for:

Duke Energy Carolinas, LLC
526 South Church Street
Charlotte, North Carolina 28202

Prepared by:

Geosyntec Consultants, Inc.
6770 South Washington Avenue, Suite 3
Titusville, Florida 32780

Project FR7559A

July 2021

Interim Surface Water Best Management Practice Plan

Former Bramlette MGP Site Stormwater Report

To Support Major Stormwater Permit Application to:

City of Greenville, South Carolina
206 South Main Street
Greenville, South Carolina 29601

Prepared for:

Duke Energy Carolinas, LLC
526 South Church Street
Charlotte, North Carolina 28202

Prepared by:

Geosyntec Consultants, Inc.
6770 South Washington Avenue, Suite 3
Titusville, Florida 32780



Nick Hartshorn
Water Resources Engineer



Mark Ellard, PE, CFM, D.WRE, ENV SP
Senior Principal

Project Number: FR7559A

July 2021

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- Appendix B: Engineering “No-Rise” Certification

1. INTRODUCTION

1.1 Introduction and Objectives

Geosyntec Consultants, Inc. (Geosyntec) has prepared this Stormwater Report for the former Bramlette Manufactured Gas Plant (MGP) in the City of Greenville, South Carolina (City). Implementation of the best management practices (BMPs) presented in this report is proposed under the Voluntary Cleanup Contract (VCC) 16-5857-RP between the South Carolina Department of Health and Environmental Control (SCDHEC) and Duke Energy.

The objectives of the surface water BMPs are to (i) reduce the potential for discharge of coal tar residuals, oily sheens, anoxic biofilm, and sediments from the wetland area located east of the Vaughn Landfill, (ii) reduce the potential transport of sediment in the ditch from the wetland area to the Reedy River, and (iii) reduce the potential for impacted sediments to migrate from the rip rap ditch located at the southern end of the TRANSFLO property to the Reedy River.

Based on correspondence with the City, construction of the proposed surface water BMPs will require a Non-Single Family Site Permit. Additionally, because parts of the proposed surface water BMPs fall within a Regulatory Floodplain, a Major Stormwater Permit is also required. The purpose of this report is to satisfy the requirements of the Major Stormwater Permit application and to demonstrate that the proposed surface water BMPs do not increase flood heights (i.e., a No-Rise Certification as required by the National Flood Insurance Program – 60.3 (d)(3) – Floodway Requirement).

1.2 Project Location

The Site is comprised of five parcels which cover approximately 30 acres and an affected surface water/wetland area on property owned by the Legacy Charter School. The Site is bounded generally by the CSX Transportation railroad corridor to the north, west, and south, and by West Washington Street, the Legacy Charter School, and the City of Greenville Sanitation Department to the east. The Reedy River and Swamp Rabbit Trail define the western boundary of the Site. A Vicinity Map and Site Map are presented as **Figure 1-1** and **Figure 1-2**, respectively.



Legend

- Vaughn Landfill
- Swamp Rabbit Trail
- Bramlette Parcels
- ~ Reedy River
- Railroad

Source:
Background: ESRI, 2021



0 260
Feet

Vicinity Map

Former Bramlette MGP Site
Greenville, South Carolina

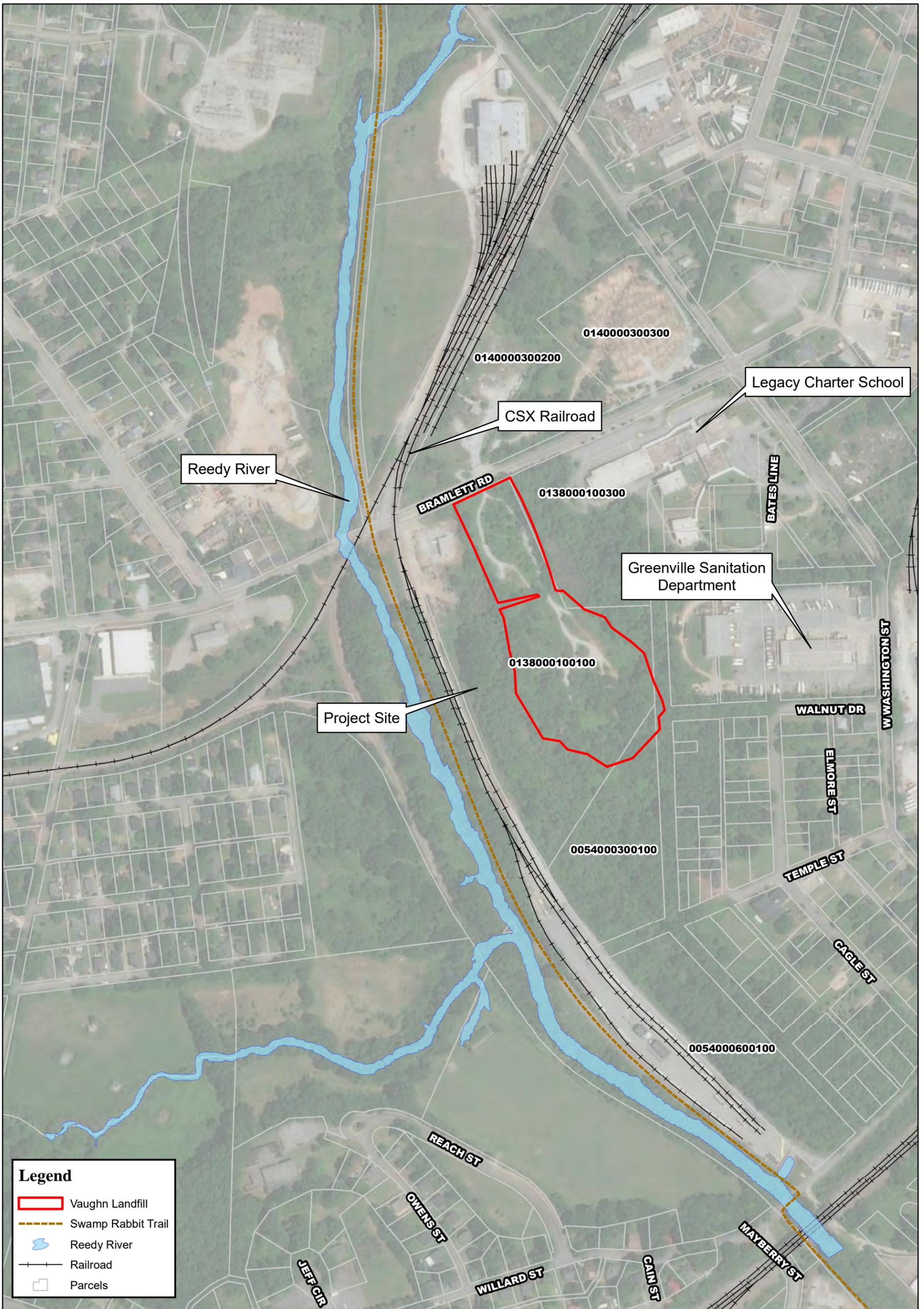


Figure

1-1

FR7559A

July 2021



Legend

- Vaughn Landfill
- Swamp Rabbit Trail
- ~ Reedy River
- Railroad
- Parcels

Source:
 Background: ESRI, 2021
 Parcels: City of Greenville, 2021



0 260 Feet

Site Map

Former Bramlette MGP Site
 Greenville, South Carolina

Geosyntec
 consultants

Figure

1-2

FR7559A

July 2021

2. EXISTING CONDITIONS

2.1 Soils

Information on Site soils was obtained from the NRCS Web Soil Survey. The soils are designated with various hydrological soil group (HSG) classification, 'A' through 'D', which indicate relative drainage characteristics. An 'A' soil is more freely draining (generally deeper water tables and less runoff potential) and a 'D' soil is more restrictive of drainage (generally higher water tables and more runoff potential). Dual classification soils ('A/D', 'B/D', and 'C/D') can have varying characteristics during the dry and wet seasons and are often conservatively categorized as HSG 'D' for design-storm based runoff estimation purposes.

Soils in the project area consist of HSG 'B/D' primarily along the Reedy River, HSG 'A/D' running north to south in the vicinity of the Vaughn Landfill, and HSG 'B' on the east and west boundaries. A map of the Site soils is presented as **Figure 2-1**.

2.2 Drainage Infrastructure

Drainage features within and adjacent to the project area include drainage ditches, jurisdictional wetlands, and the Reedy River. It is noted that Duke Energy has obtained a Nationwide 38 Permit for this project, as well as the Pre-Construction Notification (PCN) authorization letter from the United States Army Corps of Engineers. Surface water within the wetlands to the northeast of the Vaughn Landfill (Parcel 2) flows west through a 30-inch concrete culvert bisecting the Vaughn Landfill, before flowing towards the Reedy River. Surface water continues to travel south within a ditch system through Parcel 4 and Parcel 5 before discharging into a rip rap lined ditch located at the southern end of the TRANSFLO property and is ultimately discharged into the Reedy River near the southwest corner of Parcel 5.

Upstream of the project area, there exists two culverts that convey water from the north side of Bramlett Road to the south side and discharge to the west and east side of the Vaughn Landfill. Further upstream, there is a culvert that connects the Reedy River to an overbank storage area that runs along the east side of the river and a second culvert that conveys surface water from the overbank storage area, under the railroad, to the culvert that discharges under Bramlett Road to the west side of the Vaughn Landfill. This information is shown on **Figure 2-2**.

2.3 FEMA Floodplains

As mentioned previously, portions of the Site fall within delineated floodplains with specific portions within the Regulatory Floodway. Proposed improvements in the floodway require the need to demonstrate that the changes will not increase flood stages. A map of the FEMA Floodplains is presented as **Figure 2-3**.

2.4 Topographical LiDAR Data

Topographical LiDAR data dating 2013 were obtained from Greenville County. Generally, areas to the east and west of the Site are of higher elevation and drain towards the Reedy River, which flows north to south in the project area. The digital elevation model (DEM) for the Site is presented on **Figure 2-2**.

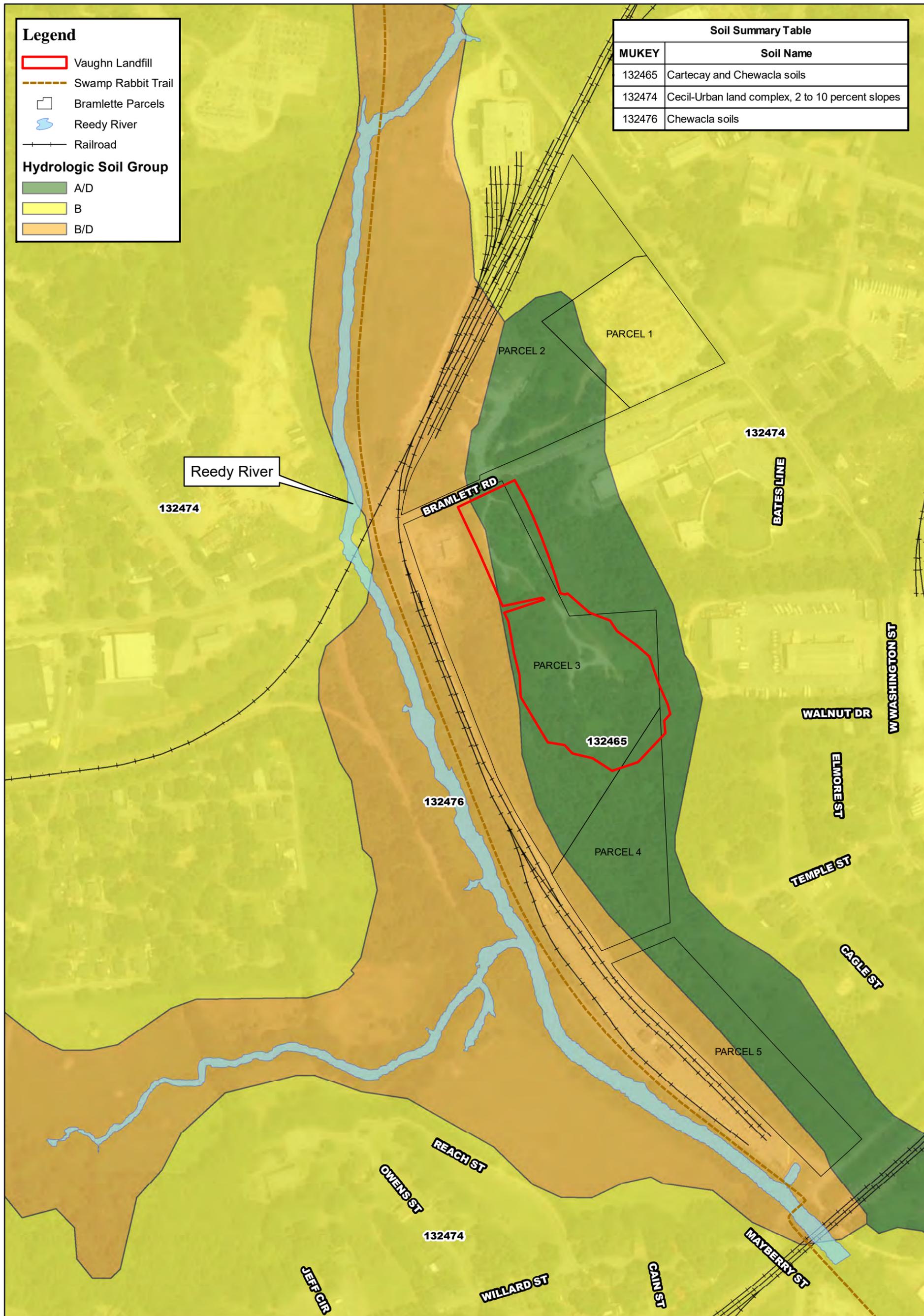
Legend

- Vaughn Landfill
- Swamp Rabbit Trail
- Bramlette Parcels
- ~ Reedy River
- Railroad

Hydrologic Soil Group

- A/D
- B
- B/D

Soil Summary Table	
MUKEY	Soil Name
132465	Cartecay and Chewacla soils
132474	Cecil-Urban land complex, 2 to 10 percent slopes
132476	Chewacla soils



Source:
Soils: NRCS, 2021
Aerial: ESRI, 2021



0 280 Feet

Soils Map

Former Bramlette MGP Site
Greenville, South Carolina

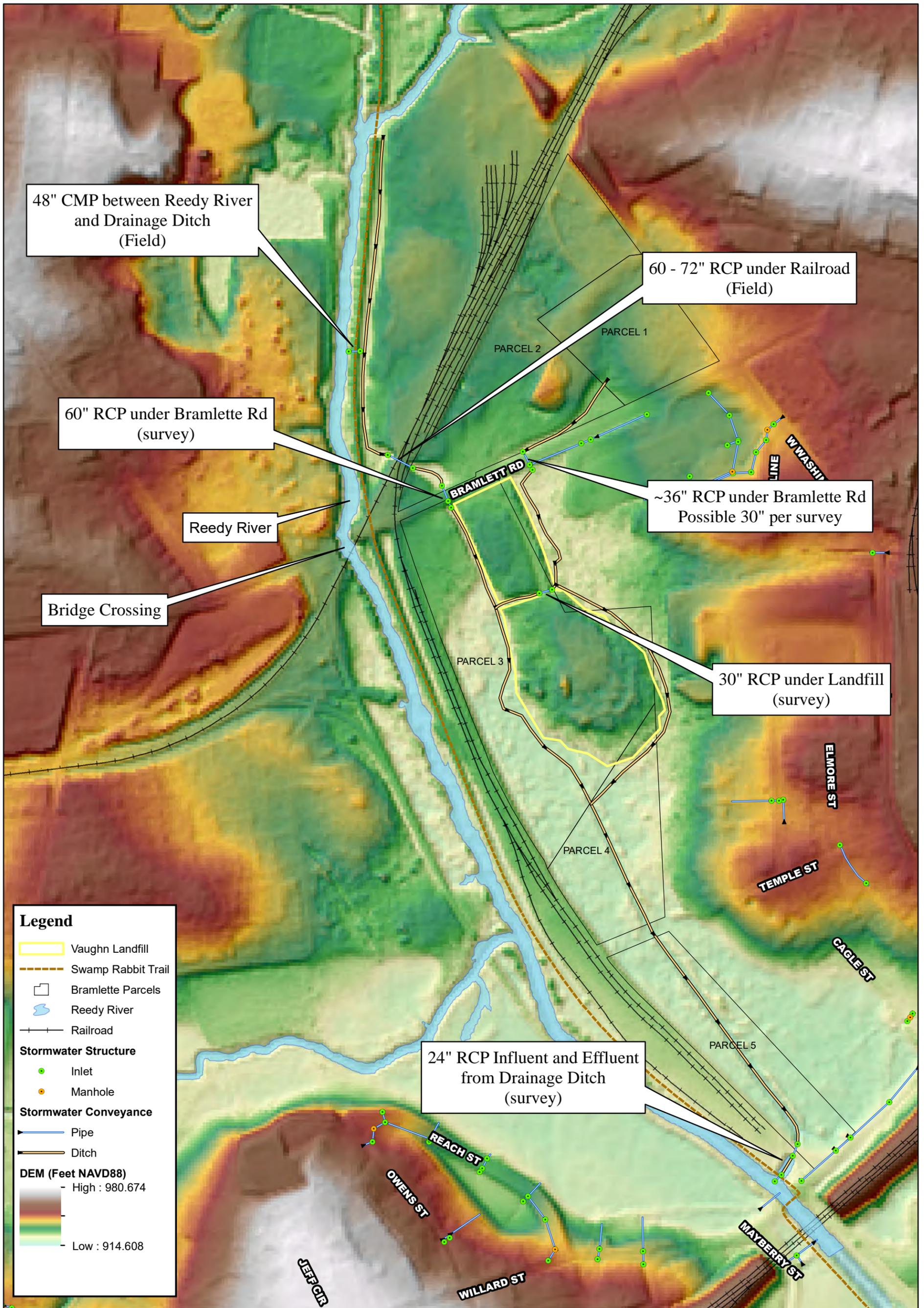
Geosyntec
consultants

Figure

2-1

FR7559A

July 2021



Legend

- Vaughn Landfill
- Swamp Rabbit Trail
- Bramlette Parcels
- ~ Reedy River
- +—+—+— Railroad

Stormwater Structure

- Inlet
- Manhole

Stormwater Conveyance

- Pipe
- Ditch

DEM (Feet NAVD88)

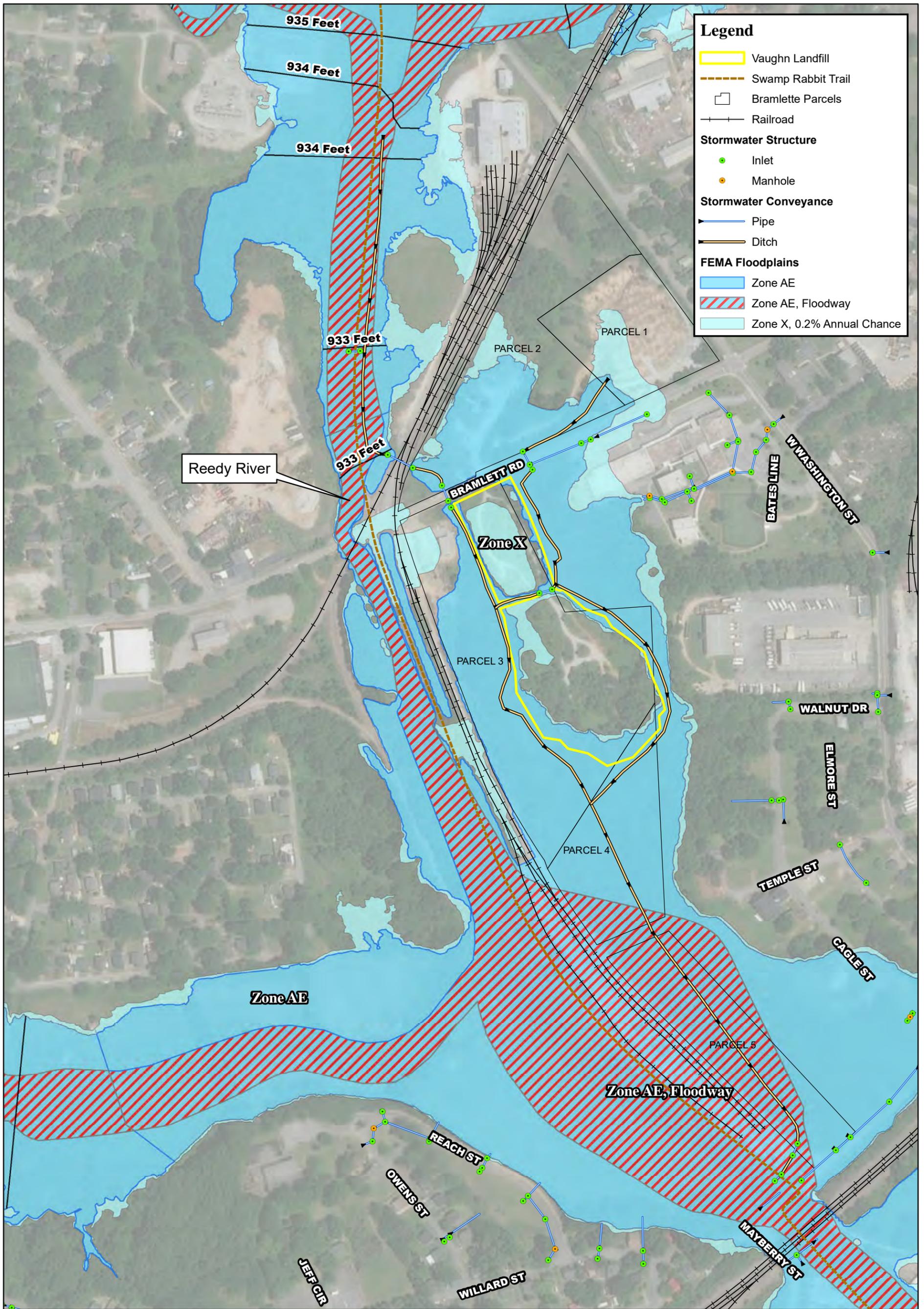
- High : 980.674
- Low : 914.608

Source:
 Drainage Infrastructure: City of Greenville, 2021
 Aerial: ESRI, 2021
 DEM: Greenville County, 2013

Note:
 Drainage infrastructure was obtained from the City of Greenville, SC, and edited by Geosyntec based on available survey data or field observations.



Drainage Infrastructure Map	
Former Bramlette MGP Site Greenville, South Carolina	
 Geosyntec consultants	Figure 2-2
FR7559A	July 2021



Legend

- Vaughn Landfill
- Swamp Rabbit Trail
- Bramlette Parcels
- Railroad

Stormwater Structure

- Inlet
- Manhole

Stormwater Conveyance

- ▶ Pipe
- ▶ Ditch

FEMA Floodplains

- Zone AE
- Zone AE, Floodway
- Zone X, 0.2% Annual Chance

Source:
 Drainage Infrastructure: City of Greenville, 2021
 Aerial: ESRI, 2021
 Floodplains: FEMA, 2014

Note:
 Drainage infrastructure was obtained from the City of Greenville, SC, and edited by Geosyntec based on available survey data or field observations.

Existing (Effective) FEMA Floodplain Map

Former Bramlette MGP Site
 Greenville, South Carolina

Geosyntec
 consultants

Figure

2-3

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3. PROPOSED SURFACE WATER BMPS

The selected BMPs consist of the following:

- A turbidity curtain consisting of an impermeable boom with a filter fabric skirt installed in the drainage channel between the two cells of the Vaughn Landfill;
- Two rock check dams constructed in the drainage channel running through Parcel 5; and
- Concrete cloth installed in the drainage swale located downstream from the TRANSFLO property and adjacent to Parcel 5.

The locations of the proposed surface water BMPs is presented in **Figure 3-1**. The work duration is anticipated to be approximately 2 to 4 weeks. Implementation of the BMPs will be performed in coordination with TRANSFLO as to not impact their business operations. Specific information on the different surface water BMPs is provided below.

3.1 Turbidity Curtain and Sorbent Booms

Turbidity curtains or containment booms are floating barriers consisting of a plain solid skirt or a skirt with a filter fabric that are designed to be installed perpendicular to flow. Turbidity curtains are intended to control the downstream movement of entrained sediments and floating particles. The top portion of the silt curtain is constructed of impermeable material to retain floatable material such as oily sheens and biofilm, while the lower silt curtain material will allow water to pass while retaining most of the suspended sediment. A turbidity curtain with a filter fabric skirt will be installed in the drainage channel between the two cells of the Vaughn Landfill that bisects Parcel 3 to reduce the potential for transport of coal tar residuals, biofilm, and sediments off-site from the surface water drainage ditch. Sorbent booms may also be used to enhance or supplement the turbidity curtain.

Concrete bollards will be constructed on each bank of the drainage channel to secure the turbidity curtain. Each end of the turbidity curtain will be loosely secured to a bollard with a chain, allowing the turbidity curtain to rise with changes in water level. The silt curtain will be installed at an angle across the channel rather than perpendicular to flow, per manufacturer recommendations. The span between the bollards is approximately 20.1 feet and each bollard is to be installed at an elevation of 929 feet above mean sea level (amsl). The length of the turbidity curtain will be approximately 22 feet. The turbidity curtain will be constructed of a 1-foot tall section of impermeable material with floats and a minimum 3-foot tall section of permeable silt curtain connected below. The silt curtain material will meet or exceed the requirements of South Carolina Department of Transportation (SCDOT) Standard Specification 815.07. It is noted that no removal efficiency design criteria have been defined for the silt curtain.

3.2 Rock Check Dams

Two rock check dams will be constructed in the drainage channel running through Parcel 5. Rock check dams will be constructed with well graded stone or rip rap. This style of check dam provides improved settling when combined with a shallow pool or depression upstream of the check dam. In addition to reducing flow velocities to promote settling, this type of check dam

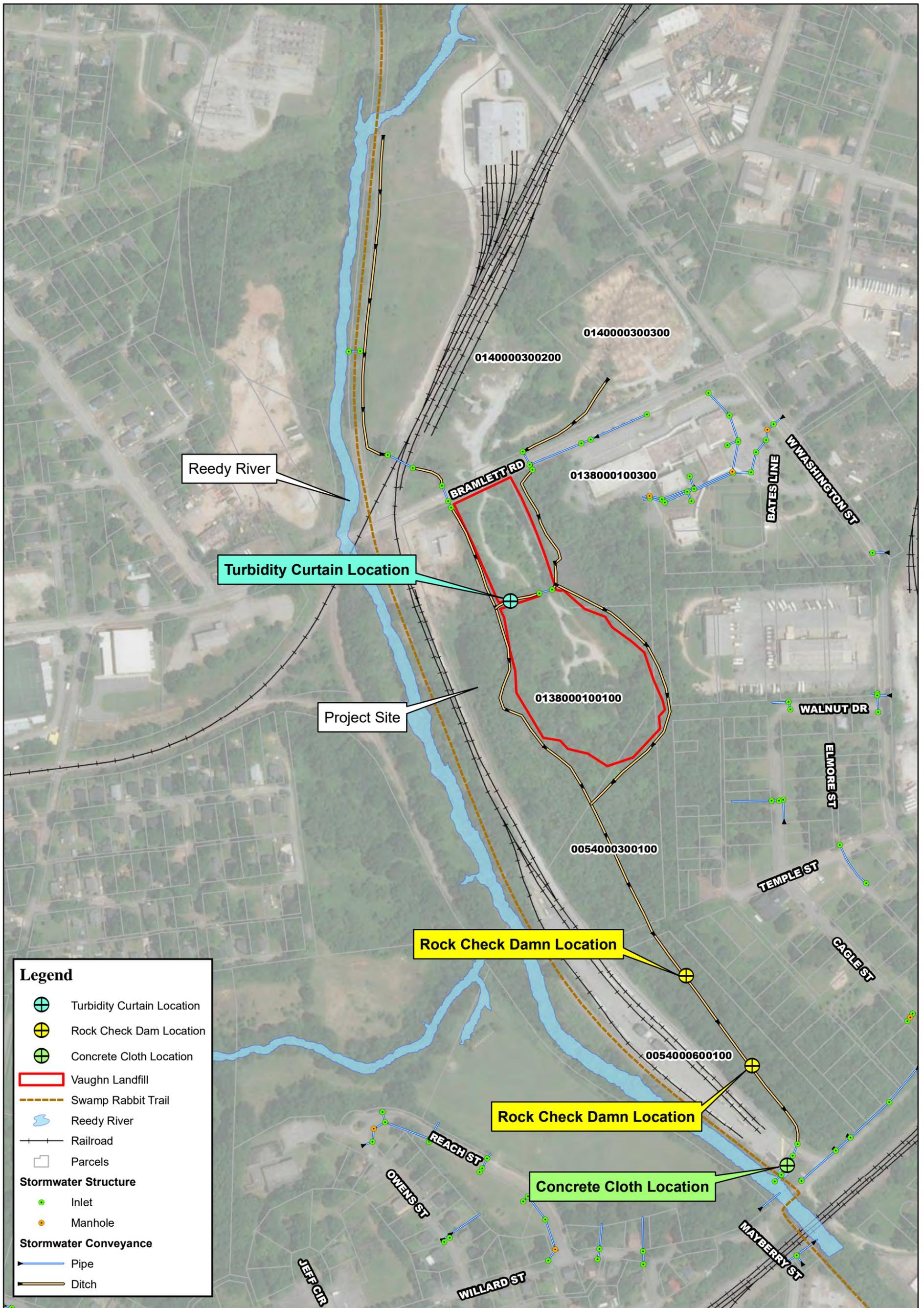
can also filter sediment. Rock check dams will reduce flow velocity and scouring and improve sedimentation in the drainage ditch on parcel 5.

Since the rock check dams are to be placed within a ditch located within a wetland, no removal efficiency was calculated. The rock check dams will be located so that the toe elevation of the upstream check dam is equal to the crest of the downstream check dam. The rock check dams are designed to be constructed in general accordance with SCDHEC standards, not to withstand a specific flow velocity, shear force, or design storm. The rock check dams are not intended to be a permanent BMP. They are intended to limit the potential flow of sediment offsite while a permanent remedial action is designed and implemented. An extreme rain event could potentially wash out these check dams.

3.3 Concrete Cloth

To prevent the potential for scouring and sediment to be transported off-site to the Reedy River, a concrete cloth will be installed in the drainage swale located downstream from the TRANSFLO property and adjacent to Parcel 5. Concrete cloth is a flexible geosynthetic cementitious composite mat that will bend and curve, enabling it to follow the contours of the drainage swale.

Prior to installation of the concrete cloth, the existing rip rap will be removed from the drainage swale located on the southeast side of the TRANSFLO property. Following removal of rip rap, the ditch will be graded smooth and approximately 1-foot of sediment will be removed from the bottom of the ditch. The concrete cloth will be installed along the bottom and on the side slopes of the ditch. The concrete cloth will be installed starting on the downstream end of the ditch and “shingled” using overlapping seams. The plastic backing of the concrete cloth will be placed against the subgrade. The seams will be sealed with #12 stainless steel screws in accordance with the manufacturer’s recommendations. To hold the concrete cloth in place and stabilize the underlying soil, a 1-foot wide by 1-foot deep anchor trench will be constructed at the top of slope around the perimeter of the drainage swale. The concrete cloth will be hydrated after installation using a local potable water source. Following the curing of the concrete cloth, a 12-inch thick layer of new rip rap will be installed in the bottom of the ditch between the two existing culverts. The general shape, configuration, flow capacity, and hydraulics of the drainage swale will be similar to the existing conditions following installation of the concrete cloth.



Legend

- Turbidity Curtain Location
- Rock Check Dam Location
- Concrete Cloth Location
- Vaughn Landfill
- Swamp Rabbit Trail
- Reedy River
- Railroad
- Parcels
- Stormwater Structure**
- Inlet
- Manhole
- Stormwater Conveyance**
- Pipe
- Ditch

Source:
 Drainage Infrastructure: City of Greenville, 2021
 Background: ESRI, 2021
 Parcels: City of Greenville, 2021

Note:
 Drainage infrastructure was obtained from the City of Greenville, SC, and edited by Geosyntec based on available survey data or field observations.



0 260 Feet

Proposed Surface Water BMPs Map

Former Bramlette MGP Site
 Greenville, South Carolina

Geosyntec
 consultants

Figure

3-1

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3.4 BMP Inspection and Maintenance Plan

Inspections will be conducted monthly following construction of the BMPs. The turbidity curtain will be evaluated for the following during each inspection:

- Noticeable areas where the curtain is not successfully containing sediment and/or particulates;
- Anchors or chains that have become dislodged or loose;
- Accumulated debris or sediment;
- Damage or tears to the curtain; and
- Damage due to wildlife (e.g., beavers).

Accumulated sediment in front of the turbidity curtain will be removed when it reaches approximately 1-foot in height or when it appears that sediment is impeding flow. If necessary, observed accumulation of floatable material will be skimmed from the water surface and properly characterized for off-site disposal. If oil sheens are observed on the water surface at the turbidity curtain location or other nearby locations, sorbent booms will be temporarily deployed. The sorbent booms will be inspected weekly and adjusted and/or replaced as needed.

The permeable rock check dams will be inspected for sediment accumulation, erosion, and visible flow patterns. Accumulated sediment upstream of the rock check dams will be removed when it reached 1/3 the height of the rock check dam or when it appears that sediment is impeding flow. Removed sediment will be properly characterized and disposed of off-site. The edges of the rock check dams and the area immediately downstream of each rock check dam will also be inspected for erosion and evidence of runoff bypassing the check dams. The rock check dams will be repaired promptly if evidence of erosion of the channel, erosion of the check dam itself, or flow bypassing the check dam is observed.

Although sediment accumulation and/or damage are not anticipated, the concrete cloth will be inspected at the same frequency as the other BMPs. The concrete cloth will be inspected and maintained as needed.

4. STORMWATER MODEL

Stormwater modeling is necessary to analyze the potential impact on flood stages resulting from implementation of the surface water BMPs. As discussed previously, because there are proposed improvements within the regulatory floodway, it is necessary to demonstrate that the proposed surface water BMPs will not increase flood stages and will result in a “No-Rise” scenario.

4.1 Model Setup

Geosyntec obtained and reviewed the Reedy River Master Plan Hydrologic Engineering Center’s River Analysis System (HEC-RAS) model from FEMA. HEC-RAS is a model developed by the US Army Corps of Engineers and is designed to perform one and two-dimensional hydraulic calculations for a full network of natural and constructed channels. The software allows the user to perform one-dimensional steady flow, one and two-dimensional unsteady flow calculations, sediment transport/mobile bed computations, and water temperature/water quality modeling (<https://www.hec.usace.army.mil/software/hec-ras/>). The HEC-RAS version used for this project was 5.0.1.

Geosyntec modified the existing conditions model by adding cross-sections at the proposed rock check dam locations and the concrete cloth location. These are considered to be improvements which change surface topography and roughness conditions which may impact flow through the regulatory floodway. It is noted that the turbidity curtain was not simulated as the drainage channel that bisects the two Vaughn Landfill cells is not currently accounted for in the HEC-RAS model.

Cross sections were added to the model using the HEC-RAS cross section interpolation tool between two existing cross sections. For example, a cross section was added between existing cross sections 311716.2 and 311011.1 to represent the northern most check dam. The resulting cross section was given the auto-generated name 311652.*. This cross section is shown in **Figure 4-1**.

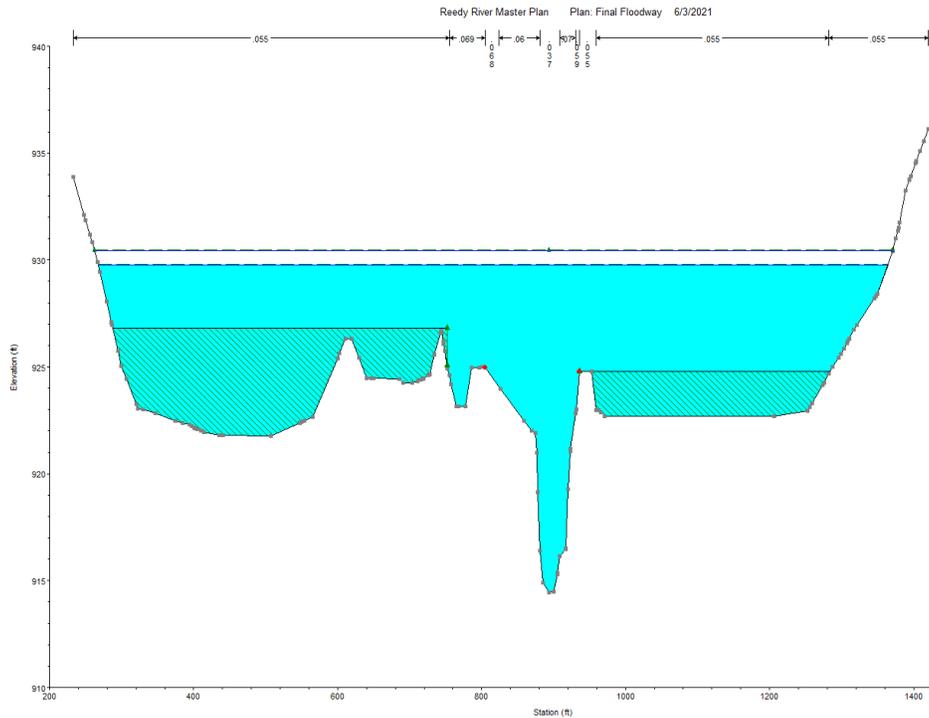


Figure 4-1: Interpolated Cross Section at the Location of the Northern Check Dam

The cross section station, elevation, and manning's n values were then manually adjusted to account for the proposed rock check dam, as seen in **Figure 4-2**.

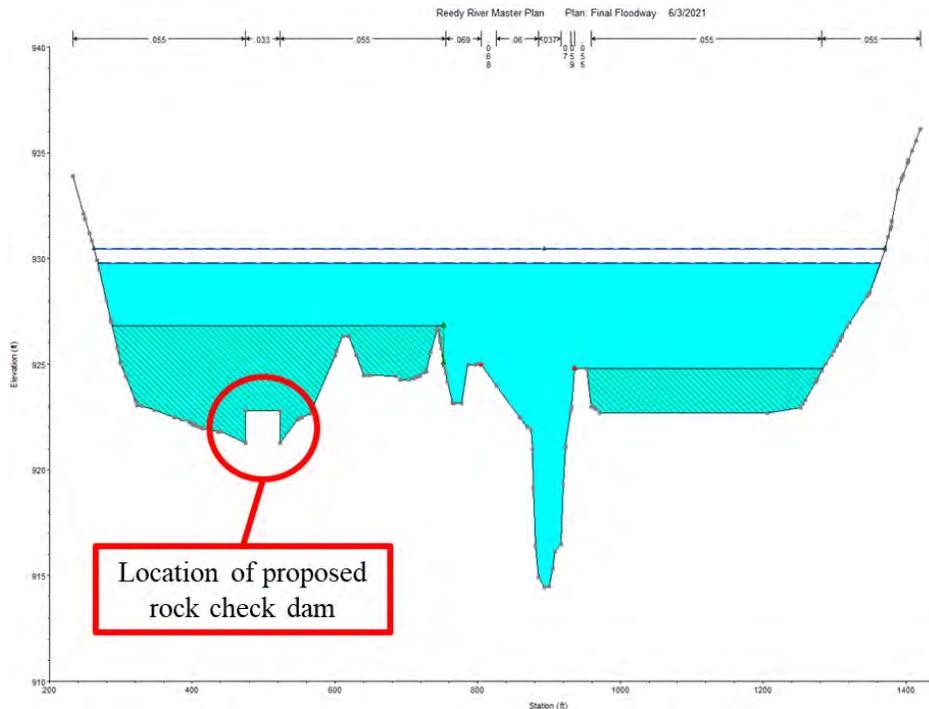
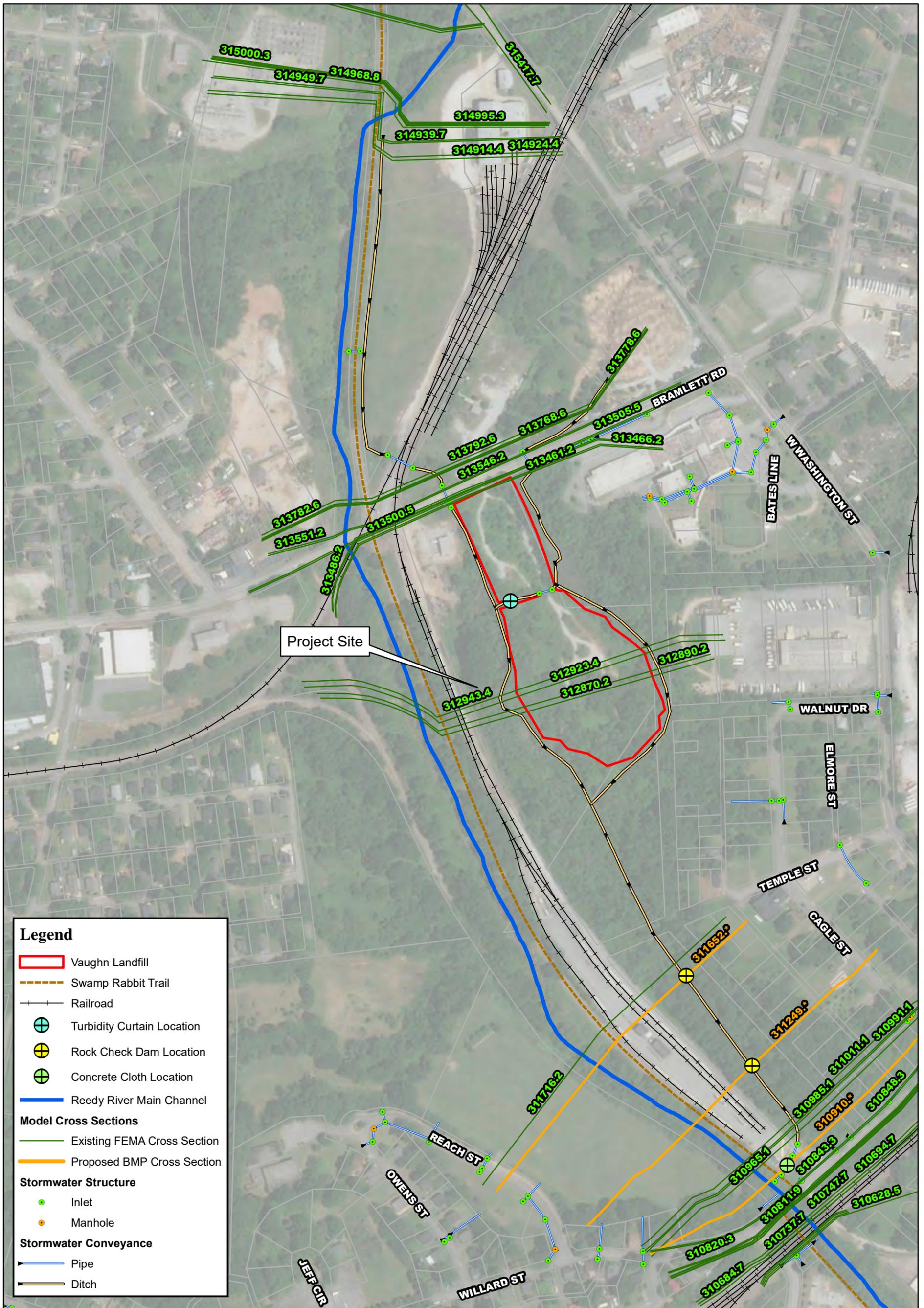


Figure 4-2: Modified Cross Section to Simulate the Northern Rock Check Dam

A similar method was utilized for the southern rock check dam and the drainage swale where the concrete cloth is proposed. Manning's n values were adjusted for each cross section to account for the proposed rip rap at the check dams and the proposed concrete cloth and rip rap at the drainage swale (Manning's n values were updated from 0.055 to 0.033 to simulate a ditch with dry rubble or riprap). A map showing the locations of the interpolated cross-sections at the proposed BMP locations is presented as **Figure 4-3**.

Based on FEMA's Guidance for Flood Risk Analysis and Mapping, dated November 2019, to meet the No-Rise criteria, it must be demonstrated that the project will not cause any increase in flood stage. FEMA defines "any" as meaning zero increase – nothing greater than 0.00 feet.

Results from the No-Rise analysis are presented in **Section 4.2**.



Legend

- Vaughn Landfill
- Swamp Rabbit Trail
- Railroad
- Turbidity Curtain Location
- Rock Check Dam Location
- Concrete Cloth Location
- Reedy River Main Channel

Model Cross Sections

- Existing FEMA Cross Section
- Proposed BMP Cross Section

Stormwater Structure

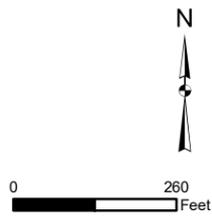
- Inlet
- Manhole

Stormwater Conveyance

- Pipe
- Ditch

Source:
 Drainage Infrastructure: City of Greenville, 2021
 Background: ESRI, 2021
 Parcels: City of Greenville, 2021

Note:
 Drainage infrastructure was obtained from the City of Greenville, SC, and edited by Geosyntec based on available survey data or field observations.



Proposed Model Schematic Map	
Former Bramlette MGP Site Greenville, South Carolina	
Geosyntec consultants	
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Figure 4-3	

4.2 Model Results

A complete summary comparison of flood peak stages from the FEMA adopted Reedy River Master Plan model and the proposed conditions model are presented in **Appendix A**. Selected river stations in the immediate vicinity of the proposed BMPs are summarized in **Table 4-1**.

Table 4-1: Summary Comparison for River Stations of Interest

Comparison of Modeled Flood Peak Stages					
Reach	River Station	Profile	Water Surface Elevation		
			(ft)		
			Existing	Proposed	Change
Main Channel	312943.4	100 - Yr	930.03	930.01	-0.02
Main Channel	312943.4	100 - Yr Encroach	930.03	930.01	-0.02
Main Channel	312923.4	100 - Yr	930.03	930.01	-0.02
Main Channel	312923.4	100 - Yr Encroach	930.03	930.01	-0.02
Main Channel	312890.2	100 - Yr	929.89	929.87	-0.02
Main Channel	312890.2	100 - Yr Encroach	929.89	929.87	-0.02
Main Channel	312870.2	100 - Yr	929.87	929.85	-0.02
Main Channel	312870.2	100 - Yr Encroach	929.87	929.85	-0.02
Main Channel	311716.2	100 - Yr	929.80	929.78	-0.02
Main Channel	311716.2	100 - Yr Encroach	929.80	929.78	-0.02
Main Channel	311011.1	100 - Yr	929.55	929.54	-0.01
Main Channel	311011.1	100 - Yr Encroach	929.55	929.54	-0.01
Main Channel	310991.1	100 - Yr	929.55	929.54	-0.01
Main Channel	310991.1	100 - Yr Encroach	929.55	929.54	-0.01
Main Channel	310985.1	100 - Yr	929.50	929.49	-0.01
Main Channel	310985.1	100 - Yr Encroach	929.50	929.49	-0.01
Main Channel	310965.1	100 - Yr	929.48	929.48	0.00
Main Channel	310965.1	100 - Yr Encroach	929.48	929.48	0.00
Main Channel	310848.3	100 - Yr	929.25	929.25	0.00
Main Channel	310848.3	100 - Yr Encroach	929.25	929.25	0.00

As seen in **Appendix A** and **Table 4-1**, modeling results demonstrate that implementation of the proposed surface water BMPs would not increase existing FEMA adopted flood stages (i.e., a “No-Rise” scenario). The Engineering “No-Rise” Certification is included in **Appendix B**.

5. CONCLUSIONS

Geosyntec prepared this Stormwater Report for the City to outline the proposed surface water BMPs and to demonstrate that their implementation will not raise existing flood stages. This report is intended to satisfy the requirements of the City's Major Stormwater Permit application and to present the results of the engineering analysis performed to demonstrate "No-Rise" conditions.

The proposed surface water BMPs include a turbidity curtain installed in the drainage channel between the two cells of the Vaughn Landfill, two rock check dams constructed in the drainage channel running through Parcel 5, and concrete cloth installed in the drainage swale located downstream from the TRANSFLO property. The objective of the surface water BMPs is to reduce the potential for discharge of coal tar residuals, oily sheens, anoxic biofilm, and sediments from the project Site to the Reedy River.

Geosyntec obtained the Reedy River Master Plan HEC-RAS model from FEMA. The existing conditions model was reviewed by Geosyntec and modifications were made by adding cross sections at the proposed rock check dam locations and the concrete cloth location. The proposed conditions model was executed, and results were reviewed by Geosyntec. Based on modeling results, the proposed surface water BMPs would not increase existing FEMA adopted floodplain stages nor negatively impact the regulatory floodway (i.e., a "No-Rise" scenario).

APPENDIX A

HEC-RAS Model Results

Comparison of Modeled Flood Peak Stages					
Reach	River Station	Profile	Water Surface Elevation		
			(ft)		
			Existing	Proposed	Change
Main Channel	321229.0 Upstream End	100 - Yr	941.19	941.18	-0.01
Main Channel	321229.0 Upstream End	100 - Yr Encroac	941.19	941.18	-0.01
Main Channel	321122.5	100 - Yr	940.77	940.77	0.00
Main Channel	321122.5	100 - Yr Encroac	940.77	940.77	0.00
Main Channel	321112.5	100 - Yr	940.79	940.79	0.00
Main Channel	321112.5	100 - Yr Encroac	940.79	940.79	0.00
Main Channel	320966.5	100 - Yr	939.85	939.85	0.00
Main Channel	320966.5	100 - Yr Encroac	939.85	939.85	0.00
Main Channel	320956.5	100 - Yr	939.66	939.66	0.00
Main Channel	320956.5	100 - Yr Encroac	939.66	939.66	0.00
Main Channel	320354.6	100 - Yr	939.64	939.64	0.00
Main Channel	320354.6	100 - Yr Encroac	939.64	939.64	0.00
Main Channel	320349.6	100 - Yr	939.64	939.64	0.00
Main Channel	320349.6	100 - Yr Encroac	939.64	939.64	0.00
Main Channel	320346.6	100 - Yr	939.63	939.63	0.00
Main Channel	320346.6	100 - Yr Encroac	939.63	939.63	0.00
Main Channel	320341.6	100 - Yr	939.63	939.62	-0.01
Main Channel	320341.6	100 - Yr Encroac	939.63	939.62	-0.01
Main Channel	318718.4	100 - Yr	939.05	939.05	0.00
Main Channel	318718.4	100 - Yr Encroac	939.05	939.05	0.00
Main Channel	318713.4	100 - Yr	938.99	938.99	0.00
Main Channel	318713.4	100 - Yr Encroac	938.99	938.99	0.00
Main Channel	318710.4	100 - Yr	938.98	938.98	0.00
Main Channel	318710.4	100 - Yr Encroac	938.98	938.98	0.00
Main Channel	318705.4	100 - Yr	939.00	938.99	-0.01
Main Channel	318705.4	100 - Yr Encroac	939.00	938.99	-0.01
Main Channel	318671.3	100 - Yr	939.00	939.00	0.00
Main Channel	318671.3	100 - Yr Encroac	939.00	939.00	0.00
Main Channel	318656.3	100 - Yr	938.98	938.97	-0.01
Main Channel	318656.3	100 - Yr Encroac	938.98	938.97	-0.01
Main Channel	318637.3	100 - Yr	938.90	938.90	0.00
Main Channel	318637.3	100 - Yr Encroac	938.90	938.90	0.00
Main Channel	318622.3	100 - Yr	938.91	938.90	-0.01
Main Channel	318622.3	100 - Yr Encroac	938.91	938.90	-0.01
Main Channel	318216.6	100 - Yr	938.84	938.83	-0.01
Main Channel	318216.6	100 - Yr Encroac	938.84	938.83	-0.01
Main Channel	317825	100 - Yr	938.45	938.45	0.00
Main Channel	317825	100 - Yr Encroac	938.45	938.45	0.00
Main Channel	317815	100 - Yr	938.44	938.43	-0.01
Main Channel	317815	100 - Yr Encroac	938.44	938.43	-0.01
Main Channel	317812	100 - Yr	938.29	938.28	-0.01
Main Channel	317812	100 - Yr Encroac	938.29	938.28	-0.01
Main Channel	317802	100 - Yr	938.27	938.27	0.00
Main Channel	317802	100 - Yr Encroac	938.27	938.27	0.00
Main Channel	317693	100 - Yr	937.97	937.97	0.00
Main Channel	317693	100 - Yr Encroac	937.97	937.97	0.00
Main Channel	317673	100 - Yr	937.93	937.93	0.00
Main Channel	317673	100 - Yr Encroac	937.93	937.93	0.00
Main Channel	317569.8	100 - Yr	937.64	937.64	0.00
Main Channel	317569.8	100 - Yr Encroac	937.64	937.64	0.00

Comparison of Modeled Flood Peak Stages					
Reach	River Station	Profile	Water Surface Elevation		
			(ft)		
			Existing	Proposed	Change
Main Channel	317549.8	100 - Yr	937.60	937.60	0.00
Main Channel	317549.8	100 - Yr Encroac	937.60	937.60	0.00
Main Channel	316969.1	100 - Yr	937.21	937.20	-0.01
Main Channel	316969.1	100 - Yr Encroac	937.21	937.20	-0.01
Main Channel	316959.2	100 - Yr	937.02	937.02	0.00
Main Channel	316959.2	100 - Yr Encroac	937.02	937.02	0.00
Main Channel	316932.6	100 - Yr	935.43	935.43	0.00
Main Channel	316932.6	100 - Yr Encroac	935.43	935.43	0.00
Main Channel	316922.6	100 - Yr	935.49	935.49	0.00
Main Channel	316922.6	100 - Yr Encroac	935.49	935.49	0.00
Main Channel	316612.2	100 - Yr	935.36	935.35	-0.01
Main Channel	316612.2	100 - Yr Encroac	935.36	935.35	-0.01
Main Channel	316570.4	100 - Yr	935.36	935.35	-0.01
Main Channel	316570.4	100 - Yr Encroac	935.36	935.35	-0.01
Main Channel	316516.6	100 - Yr	935.26	935.25	-0.01
Main Channel	316516.6	100 - Yr Encroac	935.26	935.25	-0.01
Main Channel	316468.7	100 - Yr	934.96	934.95	-0.01
Main Channel	316468.7	100 - Yr Encroac	934.96	934.95	-0.01
Main Channel	315758.7	100 - Yr	935.12	935.11	-0.01
Main Channel	315758.7	100 - Yr Encroac	935.12	935.11	-0.01
Main Channel	315748.7	100 - Yr	935.11	935.11	0.00
Main Channel	315748.7	100 - Yr Encroac	935.11	935.11	0.00
Main Channel	315736.2	100 - Yr	935.10	935.09	-0.01
Main Channel	315736.2	100 - Yr Encroac	935.10	935.09	-0.01
Main Channel	315726.2	100 - Yr	935.10	935.09	-0.01
Main Channel	315726.2	100 - Yr Encroac	935.10	935.09	-0.01
Main Channel	315474.7	100 - Yr	934.96	934.95	-0.01
Main Channel	315474.7	100 - Yr Encroac	934.96	934.95	-0.01
Main Channel	315464.7	100 - Yr	934.91	934.90	-0.01
Main Channel	315464.7	100 - Yr Encroac	934.91	934.90	-0.01
Main Channel	315427.7	100 - Yr	934.84	934.82	-0.02
Main Channel	315427.7	100 - Yr Encroac	934.84	934.82	-0.02
Main Channel	315417.7	100 - Yr	934.84	934.82	-0.02
Main Channel	315417.7	100 - Yr Encroac	934.84	934.82	-0.02
Main Channel	315348.6	100 - Yr	934.81	934.79	-0.02
Main Channel	315348.6	100 - Yr Encroac	934.81	934.79	-0.02
Main Channel	315338.6	100 - Yr	934.82	934.81	-0.01
Main Channel	315338.6	100 - Yr Encroac	934.82	934.81	-0.01
Main Channel	315334.1	100 - Yr	934.74	934.73	-0.01
Main Channel	315334.1	100 - Yr Encroac	934.74	934.73	-0.01
Main Channel	315324.1	100 - Yr	934.73	934.72	-0.01
Main Channel	315324.1	100 - Yr Encroac	934.73	934.72	-0.01
Main Channel	315000.3	100 - Yr	934.43	934.41	-0.02
Main Channel	315000.3	100 - Yr Encroac	934.43	934.41	-0.02
Main Channel	314995.3	100 - Yr	934.43	934.42	-0.01
Main Channel	314995.3	100 - Yr Encroac	934.43	934.42	-0.01
Main Channel	314990.8	100 - Yr	934.38	934.36	-0.02
Main Channel	314990.8	100 - Yr Encroac	934.38	934.36	-0.02
Main Channel	314985.8	100 - Yr	934.36	934.34	-0.02
Main Channel	314985.8	100 - Yr Encroac	934.36	934.34	-0.02

Comparison of Modeled Flood Peak Stages					
Reach	River Station	Profile	Water Surface Elevation		
			(ft)		
			Existing	Proposed	Change
Main Channel	314983.8	100 - Yr	934.26	934.24	-0.02
Main Channel	314983.8	100 - Yr Encroac	934.26	934.24	-0.02
Main Channel	314978.8	100 - Yr	934.27	934.25	-0.02
Main Channel	314978.8	100 - Yr Encroac	934.27	934.25	-0.02
Main Channel	314973.8	100 - Yr	934.22	934.20	-0.02
Main Channel	314973.8	100 - Yr Encroac	934.22	934.20	-0.02
Main Channel	314968.8	100 - Yr	934.18	934.16	-0.02
Main Channel	314968.8	100 - Yr Encroac	934.18	934.16	-0.02
Main Channel	314949.7	100 - Yr	934.32	934.30	-0.02
Main Channel	314949.7	100 - Yr Encroac	934.32	934.30	-0.02
Main Channel	314939.7	100 - Yr	934.30	934.28	-0.02
Main Channel	314939.7	100 - Yr Encroac	934.30	934.28	-0.02
Main Channel	314924.4	100 - Yr	934.11	934.09	-0.02
Main Channel	314924.4	100 - Yr Encroac	934.11	934.09	-0.02
Main Channel	314914.4	100 - Yr	934.12	934.10	-0.02
Main Channel	314914.4	100 - Yr Encroac	934.12	934.10	-0.02
Main Channel	313792.6	100 - Yr	933.12	933.09	-0.03
Main Channel	313792.6	100 - Yr Encroac	933.12	933.09	-0.03
Main Channel	313782.6	100 - Yr	933.11	933.08	-0.03
Main Channel	313782.6	100 - Yr Encroac	933.11	933.08	-0.03
Main Channel	313778.6	100 - Yr	932.83	932.80	-0.03
Main Channel	313778.6	100 - Yr Encroac	932.83	932.80	-0.03
Main Channel	313768.6	100 - Yr	932.82	932.79	-0.03
Main Channel	313768.6	100 - Yr Encroac	932.82	932.79	-0.03
Main Channel	313551.2	100 - Yr	932.98	932.95	-0.03
Main Channel	313551.2	100 - Yr Encroac	932.98	932.95	-0.03
Main Channel	313546.2	100 - Yr	932.98	932.95	-0.03
Main Channel	313546.2	100 - Yr Encroac	932.98	932.95	-0.03
Main Channel	313505.5	100 - Yr	931.27	931.26	-0.01
Main Channel	313505.5	100 - Yr Encroac	931.27	931.26	-0.01
Main Channel	313500.5	100 - Yr	931.02	931.00	-0.02
Main Channel	313500.5	100 - Yr Encroac	931.02	931.00	-0.02
Main Channel	313486.2	100 - Yr	930.19	930.18	-0.01
Main Channel	313486.2	100 - Yr Encroac	930.19	930.18	-0.01
Main Channel	313481.2	100 - Yr	930.17	930.16	-0.01
Main Channel	313481.2	100 - Yr Encroac	930.17	930.16	-0.01
Main Channel	313466.2	100 - Yr	930.12	930.10	-0.02
Main Channel	313466.2	100 - Yr Encroac	930.12	930.10	-0.02
Main Channel	313461.2	100 - Yr	930.10	930.09	-0.01
Main Channel	313461.2	100 - Yr Encroac	930.10	930.09	-0.01
Main Channel	312943.4	100 - Yr	930.03	930.01	-0.02
Main Channel	312943.4	100 - Yr Encroac	930.03	930.01	-0.02
Main Channel	312923.4	100 - Yr	930.03	930.01	-0.02
Main Channel	312923.4	100 - Yr Encroac	930.03	930.01	-0.02
Main Channel	312890.2	100 - Yr	929.89	929.87	-0.02
Main Channel	312890.2	100 - Yr Encroac	929.89	929.87	-0.02
Main Channel	312870.2	100 - Yr	929.87	929.85	-0.02
Main Channel	312870.2	100 - Yr Encroac	929.87	929.85	-0.02
Main Channel	311716.2	100 - Yr	929.80	929.78	-0.02
Main Channel	311716.2	100 - Yr Encroac	929.80	929.78	-0.02

Comparison of Modeled Flood Peak Stages					
Reach	River Station	Profile	Water Surface Elevation		
			(ft)		
			Existing	Proposed	Change
Main Channel	311011.1	100 - Yr	929.55	929.54	-0.01
Main Channel	311011.1	100 - Yr Encroac	929.55	929.54	-0.01
Main Channel	310991.1	100 - Yr	929.55	929.54	-0.01
Main Channel	310991.1	100 - Yr Encroac	929.55	929.54	-0.01
Main Channel	310985.1	100 - Yr	929.50	929.49	-0.01
Main Channel	310985.1	100 - Yr Encroac	929.50	929.49	-0.01
Main Channel	310965.1	100 - Yr	929.48	929.48	0.00
Main Channel	310965.1	100 - Yr Encroac	929.48	929.48	0.00
Main Channel	310848.3	100 - Yr	929.25	929.25	0.00
Main Channel	310848.3	100 - Yr Encroac	929.25	929.25	0.00
Main Channel	310843.3	100 - Yr	929.24	929.24	0.00
Main Channel	310843.3	100 - Yr Encroac	929.24	929.24	0.00
Main Channel	310820.3	100 - Yr	928.81	928.81	0.00
Main Channel	310820.3	100 - Yr Encroac	928.81	928.81	0.00
Main Channel	310815.3	100 - Yr	928.79	928.79	0.00
Main Channel	310815.3	100 - Yr Encroac	928.79	928.79	0.00
Main Channel	310811.9	100 - Yr	928.77	928.77	0.00
Main Channel	310811.9	100 - Yr Encroac	928.77	928.77	0.00
Main Channel	310809.9	100 - Yr	928.76	928.76	0.00
Main Channel	310809.9	100 - Yr Encroac	928.76	928.76	0.00
Main Channel	310805.4	100 - Yr	928.43	928.43	0.00
Main Channel	310805.4	100 - Yr Encroac	928.43	928.43	0.00
Main Channel	310803.4	100 - Yr	928.43	928.43	0.00
Main Channel	310803.4	100 - Yr Encroac	928.43	928.43	0.00
Main Channel	310747.7	100 - Yr	928.40	928.40	0.00
Main Channel	310747.7	100 - Yr Encroac	928.40	928.40	0.00
Main Channel	310737.7	100 - Yr	928.38	928.38	0.00
Main Channel	310737.7	100 - Yr Encroac	928.38	928.38	0.00
Main Channel	310694.7	100 - Yr	928.25	928.25	0.00
Main Channel	310694.7	100 - Yr Encroac	928.25	928.25	0.00
Main Channel	310684.7	100 - Yr	928.24	928.24	0.00
Main Channel	310684.7	100 - Yr Encroac	928.24	928.24	0.00
Main Channel	310649	100 - Yr	928.03	928.03	0.00
Main Channel	310649	100 - Yr Encroac	928.03	928.03	0.00
Main Channel	310644	100 - Yr	928.07	928.07	0.00
Main Channel	310644	100 - Yr Encroac	928.07	928.07	0.00
Main Channel	310638.5	100 - Yr	927.94	927.94	0.00
Main Channel	310638.5	100 - Yr Encroac	927.94	927.94	0.00
Main Channel	310628.5	100 - Yr	927.87	927.87	0.00
Main Channel	310628.5	100 - Yr Encroac	927.87	927.87	0.00
Main Channel	309768	100 - Yr	927.99	927.99	0.00
Main Channel	309768	100 - Yr Encroac	927.99	927.99	0.00
Main Channel	309443	100 - Yr	927.28	927.28	0.00
Main Channel	309443	100 - Yr Encroac	927.28	927.28	0.00
Main Channel	309243	100 - Yr	927.03	927.03	0.00
Main Channel	309243	100 - Yr Encroac	927.03	927.03	0.00
Main Channel	309155.9	100 - Yr	927.39	927.39	0.00
Main Channel	309155.9	100 - Yr Encroac	927.39	927.39	0.00
Main Channel	308767.9	100 - Yr	927.33	927.33	0.00
Main Channel	308767.9	100 - Yr Encroac	927.33	927.33	0.00

Comparison of Modeled Flood Peak Stages					
Reach	River Station	Profile	Water Surface Elevation		
			(ft)		
			Existing	Proposed	Change
Main Channel	308757.9	100 - Yr	927.33	927.33	0.00
Main Channel	308757.9	100 - Yr Encroac	927.33	927.33	0.00
Main Channel	308755.4	100 - Yr	927.32	927.32	0.00
Main Channel	308755.4	100 - Yr Encroac	927.32	927.32	0.00
Main Channel	308745.4	100 - Yr	927.31	927.31	0.00
Main Channel	308745.4	100 - Yr Encroac	927.31	927.31	0.00
Main Channel	308290.4	100 - Yr	926.93	926.93	0.00
Main Channel	308290.4	100 - Yr Encroac	926.93	926.93	0.00
Main Channel	308285.4	100 - Yr	926.93	926.93	0.00
Main Channel	308285.4	100 - Yr Encroac	926.93	926.93	0.00
Main Channel	308259.9	100 - Yr	926.62	926.62	0.00
Main Channel	308259.9	100 - Yr Encroac	926.62	926.62	0.00
Main Channel	308254.9	100 - Yr	926.50	926.50	0.00
Main Channel	308254.9	100 - Yr Encroac	926.50	926.50	0.00
Main Channel	308247.6	100 - Yr	926.55	926.55	0.00
Main Channel	308247.6	100 - Yr Encroac	926.55	926.55	0.00
Main Channel	308242.6	100 - Yr	926.55	926.55	0.00
Main Channel	308242.6	100 - Yr Encroac	926.55	926.55	0.00
Main Channel	308237.6	100 - Yr	926.28	926.28	0.00
Main Channel	308237.6	100 - Yr Encroac	926.28	926.28	0.00
Main Channel	308232.6	100 - Yr	926.18	926.18	0.00
Main Channel	308232.6	100 - Yr Encroac	926.18	926.18	0.00
Main Channel	307375.4	100 - Yr	926.26	926.26	0.00
Main Channel	307375.4	100 - Yr Encroac	926.26	926.26	0.00
Main Channel	307345.4	100 - Yr	926.24	926.24	0.00
Main Channel	307345.4	100 - Yr Encroac	926.24	926.24	0.00
Main Channel	307333.9	100 - Yr	926.17	926.17	0.00
Main Channel	307333.9	100 - Yr Encroac	926.17	926.17	0.00
Main Channel	307313.9	100 - Yr	926.17	926.17	0.00
Main Channel	307313.9	100 - Yr Encroac	926.17	926.17	0.00
Main Channel	307197.8	100 - Yr	925.96	925.96	0.00
Main Channel	307197.8	100 - Yr Encroac	925.96	925.96	0.00
Main Channel	307177.8	100 - Yr	925.81	925.81	0.00
Main Channel	307177.8	100 - Yr Encroac	925.81	925.81	0.00
Main Channel	307115.5	100 - Yr	925.19	925.19	0.00
Main Channel	307115.5	100 - Yr Encroac	925.19	925.19	0.00
Main Channel	307095.5	100 - Yr	925.22	925.22	0.00
Main Channel	307095.5	100 - Yr Encroac	925.22	925.22	0.00
Main Channel	306426.6	100 - Yr	924.48	924.48	0.00
Main Channel	306426.6	100 - Yr Encroac	924.48	924.48	0.00
Main Channel	306406.6	100 - Yr	924.45	924.45	0.00
Main Channel	306406.6	100 - Yr Encroac	924.45	924.45	0.00
Main Channel	306401.8	100 - Yr	924.32	924.32	0.00
Main Channel	306401.8	100 - Yr Encroac	924.32	924.32	0.00
Main Channel	306381.8	100 - Yr	924.28	924.28	0.00
Main Channel	306381.8	100 - Yr Encroac	924.28	924.28	0.00
Main Channel	306331.5	100 - Yr	924.05	924.05	0.00
Main Channel	306331.5	100 - Yr Encroac	924.05	924.05	0.00
Main Channel	306311.5	100 - Yr	923.91	923.91	0.00
Main Channel	306311.5	100 - Yr Encroac	923.91	923.91	0.00

Comparison of Modeled Flood Peak Stages					
Reach	River Station	Profile	Water Surface Elevation		
			(ft)		
			Existing	Proposed	Change
Main Channel	306283.5	100 - Yr	923.38	923.38	0.00
Main Channel	306283.5	100 - Yr Encroac	923.38	923.38	0.00
Main Channel	306263.5	100 - Yr	923.39	923.39	0.00
Main Channel	306263.5	100 - Yr Encroac	923.39	923.39	0.00
Main Channel	306136.3	100 - Yr	923.41	923.41	0.00
Main Channel	306136.3	100 - Yr Encroac	923.41	923.41	0.00
Main Channel	306116.3	100 - Yr	923.02	923.02	0.00
Main Channel	306116.3	100 - Yr Encroac	923.02	923.02	0.00
Main Channel	306112.3	100 - Yr	922.38	922.38	0.00
Main Channel	306112.3	100 - Yr Encroac	922.38	922.38	0.00
Main Channel	306092.3	100 - Yr	922.49	922.49	0.00
Main Channel	306092.3	100 - Yr Encroac	922.49	922.49	0.00
Main Channel	306022.3	100 - Yr	922.35	922.35	0.00
Main Channel	306022.3	100 - Yr Encroac	922.35	922.35	0.00
Main Channel	306002.3	100 - Yr	922.26	922.26	0.00
Main Channel	306002.3	100 - Yr Encroac	922.26	922.26	0.00
Main Channel	305924.3	100 - Yr	921.54	921.54	0.00
Main Channel	305924.3	100 - Yr Encroac	921.54	921.54	0.00
Main Channel	305894.3	100 - Yr	918.30	918.30	0.00
Main Channel	305894.3	100 - Yr Encroac	918.30	918.30	0.00
Main Channel	305644.7	100 - Yr	918.76	918.76	0.00
Main Channel	305644.7	100 - Yr Encroac	918.76	918.76	0.00
Main Channel	305614.7	100 - Yr	918.69	918.69	0.00
Main Channel	305614.7	100 - Yr Encroac	918.69	918.69	0.00
Main Channel	305551.1	100 - Yr	918.45	918.45	0.00
Main Channel	305551.1	100 - Yr Encroac	918.45	918.45	0.00
Main Channel	305521.1	100 - Yr	918.40	918.40	0.00
Main Channel	305521.1	100 - Yr Encroac	918.40	918.40	0.00
Main Channel	304735.7	100 - Yr	917.61	917.61	0.00
Main Channel	304735.7	100 - Yr Encroac	917.61	917.61	0.00
Main Channel	304725.7	100 - Yr	917.60	917.60	0.00
Main Channel	304725.7	100 - Yr Encroac	917.60	917.60	0.00
Main Channel	304714.7	100 - Yr	917.59	917.59	0.00
Main Channel	304714.7	100 - Yr Encroac	917.59	917.59	0.00
Main Channel	304704.7	100 - Yr	917.58	917.58	0.00
Main Channel	304704.7	100 - Yr Encroac	917.58	917.58	0.00
Main Channel	304692	100 - Yr	917.72	917.72	0.00
Main Channel	304692	100 - Yr Encroac	917.72	917.72	0.00
Main Channel	304682	100 - Yr	917.71	917.71	0.00
Main Channel	304682	100 - Yr Encroac	917.71	917.71	0.00
Main Channel	304667.3	100 - Yr	911.93	911.93	0.00
Main Channel	304667.3	100 - Yr Encroac	911.93	911.93	0.00
Main Channel	304657.3	100 - Yr	911.84	911.84	0.00
Main Channel	304657.3	100 - Yr Encroac	911.84	911.84	0.00
Main Channel	304603.9	100 - Yr	911.43	911.43	0.00
Main Channel	304603.9	100 - Yr Encroac	911.43	911.43	0.00
Main Channel	304573.9	100 - Yr	911.19	911.19	0.00
Main Channel	304573.9	100 - Yr Encroac	911.19	911.19	0.00
Main Channel	304499.9	100 - Yr	910.15	910.15	0.00
Main Channel	304499.9	100 - Yr Encroac	910.15	910.15	0.00

Comparison of Modeled Flood Peak Stages					
Reach	River Station	Profile	Water Surface Elevation		
			(ft)		
			Existing	Proposed	Change
Main Channel	304469.9	100 - Yr	908.55	908.55	0.00
Main Channel	304469.9	100 - Yr Encroac	908.55	908.55	0.00
Main Channel	304241.6	100 - Yr	904.61	904.61	0.00
Main Channel	304241.6	100 - Yr Encroac	904.61	904.61	0.00
Main Channel	304174.6	100 - Yr	902.07	902.07	0.00
Main Channel	304174.6	100 - Yr Encroac	902.07	902.07	0.00
Main Channel	304122	100 - Yr	868.19	868.19	0.00
Main Channel	304122	100 - Yr Encroac	868.19	868.19	0.00
Main Channel	304031.8	100 - Yr	871.64	871.64	0.00
Main Channel	304031.8	100 - Yr Encroac	871.64	871.64	0.00
Main Channel	303941.2	100 - Yr	871.29	871.29	0.00
Main Channel	303941.2	100 - Yr Encroac	871.29	871.29	0.00
Main Channel	303726.4	100 - Yr	868.38	868.38	0.00
Main Channel	303726.4	100 - Yr Encroac	868.38	868.38	0.00
Main Channel	303636.8	100 - Yr	856.97	856.97	0.00
Main Channel	303636.8	100 - Yr Encroac	856.97	856.97	0.00
Main Channel	303519.5	100 - Yr	856.26	856.26	0.00
Main Channel	303519.5	100 - Yr Encroac	856.26	856.26	0.00
Main Channel	303363.3	100 - Yr	856.50	856.50	0.00
Main Channel	303363.3	100 - Yr Encroac	856.50	856.50	0.00
Main Channel	303046.5	100 - Yr	856.24	856.24	0.00
Main Channel	303046.5	100 - Yr Encroac	856.24	856.24	0.00
Main Channel	302876.2	100 - Yr	855.68	855.68	0.00
Main Channel	302876.2	100 - Yr Encroac	855.68	855.68	0.00
Main Channel	302846.2	100 - Yr	855.60	855.60	0.00
Main Channel	302846.2	100 - Yr Encroac	855.60	855.60	0.00
Main Channel	302766.3	100 - Yr	855.13	855.13	0.00
Main Channel	302766.3	100 - Yr Encroac	855.13	855.13	0.00
Main Channel	302736.3	100 - Yr	855.03	855.03	0.00
Main Channel	302736.3	100 - Yr Encroac	855.03	855.03	0.00
Main Channel	302489.5	100 - Yr	855.02	855.02	0.00
Main Channel	302489.5	100 - Yr Encroac	855.02	855.02	0.00
Main Channel	302429.5	100 - Yr	854.98	854.98	0.00
Main Channel	302429.5	100 - Yr Encroac	854.98	854.98	0.00
Main Channel	302396.4	100 - Yr	852.26	852.26	0.00
Main Channel	302396.4	100 - Yr Encroac	852.26	852.26	0.00
Main Channel	302333.2	100 - Yr	852.29	852.29	0.00
Main Channel	302333.2	100 - Yr Encroac	852.29	852.29	0.00
Main Channel	302252.1	100 - Yr	852.32	852.32	0.00
Main Channel	302252.1	100 - Yr Encroac	852.32	852.32	0.00
Main Channel	302124.7	100 - Yr	852.11	852.11	0.00
Main Channel	302124.7	100 - Yr Encroac	852.11	852.11	0.00
Main Channel	301839.2	100 - Yr	851.89	851.89	0.00
Main Channel	301839.2	100 - Yr Encroac	851.89	851.89	0.00
Main Channel	301809.2	100 - Yr	851.87	851.87	0.00
Main Channel	301809.2	100 - Yr Encroac	851.87	851.87	0.00
Main Channel	301763.5	100 - Yr	851.77	851.77	0.00
Main Channel	301763.5	100 - Yr Encroac	851.77	851.77	0.00
Main Channel	301733.5	100 - Yr	851.76	851.76	0.00
Main Channel	301733.5	100 - Yr Encroac	851.76	851.76	0.00

Comparison of Modeled Flood Peak Stages					
Reach	River Station	Profile	Water Surface Elevation		
			(ft)		
			Existing	Proposed	Change
Main Channel	300478.8	100 - Yr	850.88	850.88	0.00
Main Channel	300478.8	100 - Yr Encroac	850.88	850.88	0.00
Main Channel	300458.8	100 - Yr	850.72	850.72	0.00
Main Channel	300458.8	100 - Yr Encroac	850.72	850.72	0.00
Main Channel	300426.6	100 - Yr	850.68	850.68	0.00
Main Channel	300426.6	100 - Yr Encroac	850.68	850.68	0.00
Main Channel	300406.6	100 - Yr	850.68	850.68	0.00
Main Channel	300406.6	100 - Yr Encroac	850.68	850.68	0.00
Main Channel	298770.1	100 - Yr	850.20	850.20	0.00
Main Channel	298770.1	100 - Yr Encroac	850.20	850.20	0.00
Main Channel	298765.1	100 - Yr	850.20	850.20	0.00
Main Channel	298765.1	100 - Yr Encroac	850.20	850.20	0.00
Main Channel	298756.7	100 - Yr	849.16	849.16	0.00
Main Channel	298756.7	100 - Yr Encroac	849.16	849.16	0.00
Main Channel	298751.7	100 - Yr	849.16	849.16	0.00
Main Channel	298751.7	100 - Yr Encroac	849.16	849.16	0.00
Main Channel	298742.3	100 - Yr	849.16	849.16	0.00
Main Channel	298742.3	100 - Yr Encroac	849.16	849.16	0.00
Main Channel	298738.3	100 - Yr	849.15	849.15	0.00
Main Channel	298738.3	100 - Yr Encroac	849.15	849.15	0.00
Main Channel	298727.7	100 - Yr	847.98	847.98	0.00
Main Channel	298727.7	100 - Yr Encroac	847.98	847.98	0.00
Main Channel	298722.7	100 - Yr	847.97	847.97	0.00
Main Channel	298722.7	100 - Yr Encroac	847.97	847.97	0.00
Main Channel	298646.6	100 - Yr	847.86	847.86	0.00
Main Channel	298646.6	100 - Yr Encroac	847.86	847.86	0.00
Main Channel	298636.6	100 - Yr	847.85	847.85	0.00
Main Channel	298636.6	100 - Yr Encroac	847.85	847.85	0.00
Main Channel	298633	100 - Yr	847.54	847.54	0.00
Main Channel	298633	100 - Yr Encroac	847.54	847.54	0.00
Main Channel	298613	100 - Yr	847.52	847.52	0.00
Main Channel	298613	100 - Yr Encroac	847.52	847.52	0.00
Main Channel	298332.2	100 - Yr	847.38	847.38	0.00
Main Channel	298332.2	100 - Yr Encroac	847.38	847.38	0.00
Main Channel	298060.7	100 - Yr	847.28	847.28	0.00
Main Channel	298060.7	100 - Yr Encroac	847.28	847.28	0.00
Main Channel	296716.1	100 - Yr	845.78	845.78	0.00
Main Channel	296716.1	100 - Yr Encroac	845.78	845.78	0.00
Main Channel	296711.1	100 - Yr	845.77	845.77	0.00
Main Channel	296711.1	100 - Yr Encroac	845.77	845.77	0.00
Main Channel	296678.1	100 - Yr	845.47	845.47	0.00
Main Channel	296678.1	100 - Yr Encroac	845.47	845.47	0.00
Main Channel	296673.1	100 - Yr	845.46	845.46	0.00
Main Channel	296673.1	100 - Yr Encroac	845.46	845.46	0.00
Main Channel	296663.4	100 - Yr	845.61	845.61	0.00
Main Channel	296663.4	100 - Yr Encroac	845.61	845.61	0.00
Main Channel	296658.4	100 - Yr	845.60	845.60	0.00
Main Channel	296658.4	100 - Yr Encroac	845.60	845.60	0.00
Main Channel	296650.5	100 - Yr	844.04	844.04	0.00
Main Channel	296650.5	100 - Yr Encroac	844.04	844.04	0.00

Comparison of Modeled Flood Peak Stages					
Reach	River Station	Profile	Water Surface Elevation		
			(ft)		
			Existing	Proposed	Change
Main Channel	296645.5	100 - Yr	844.03	844.03	0.00
Main Channel	296645.5	100 - Yr Encroac	844.03	844.03	0.00
Main Channel	295884	100 - Yr	843.18	843.18	0.00
Main Channel	295884	100 - Yr Encroac	843.18	843.18	0.00
Main Channel	295798.7	100 - Yr	843.07	843.07	0.00
Main Channel	295798.7	100 - Yr Encroac	843.07	843.07	0.00
Main Channel	293066.9	100 - Yr	839.26	839.26	0.00
Main Channel	293066.9	100 - Yr Encroac	839.26	839.26	0.00
Main Channel	292028	100 - Yr	838.11	838.11	0.00
Main Channel	292028	100 - Yr Encroac	838.11	838.11	0.00
Main Channel	291960.6	100 - Yr	837.57	837.57	0.00
Main Channel	291960.6	100 - Yr Encroac	837.57	837.57	0.00
Main Channel	291491.4	100 - Yr	836.59	836.59	0.00
Main Channel	291491.4	100 - Yr Encroac	836.59	836.59	0.00
Main Channel	290869.9	100 - Yr	836.15	836.15	0.00
Main Channel	290869.9	100 - Yr Encroac	836.15	836.15	0.00
Main Channel	289640	100 - Yr	834.81	834.81	0.00
Main Channel	289640	100 - Yr Encroac	834.81	834.81	0.00
Main Channel	289620	100 - Yr	834.78	834.78	0.00
Main Channel	289620	100 - Yr Encroac	834.78	834.78	0.00
Main Channel	289585	100 - Yr	834.66	834.66	0.00
Main Channel	289585	100 - Yr Encroac	834.66	834.66	0.00
Main Channel	289565	100 - Yr	834.63	834.63	0.00
Main Channel	289565	100 - Yr Encroac	834.63	834.63	0.00
Main Channel	289546.1	100 - Yr	834.73	834.73	0.00
Main Channel	289546.1	100 - Yr Encroac	834.73	834.73	0.00
Main Channel	289526.1	100 - Yr	834.71	834.71	0.00
Main Channel	289526.1	100 - Yr Encroac	834.71	834.71	0.00
Main Channel	289519.1	100 - Yr	833.92	833.92	0.00
Main Channel	289519.1	100 - Yr Encroac	833.92	833.92	0.00
Main Channel	289499.1	100 - Yr	833.91	833.91	0.00
Main Channel	289499.1	100 - Yr Encroac	833.91	833.91	0.00
Main Channel	288784.8	100 - Yr	833.05	833.05	0.00
Main Channel	288784.8	100 - Yr Encroac	833.05	833.05	0.00
Main Channel	288754.8	100 - Yr	833.02	833.02	0.00
Main Channel	288754.8	100 - Yr Encroac	833.02	833.02	0.00
Main Channel	288740.3	100 - Yr	833.01	833.01	0.00
Main Channel	288740.3	100 - Yr Encroac	833.01	833.01	0.00
Main Channel	288710.3	100 - Yr	832.97	832.97	0.00
Main Channel	288710.3	100 - Yr Encroac	832.97	832.97	0.00
Main Channel	287697.5	100 - Yr	830.27	830.27	0.00
Main Channel	287697.5	100 - Yr Encroac	830.27	830.27	0.00
Main Channel	286637	100 - Yr	829.11	829.11	0.00
Main Channel	286637	100 - Yr Encroac	829.11	829.11	0.00
Main Channel	286382.8	100 - Yr	828.54	828.54	0.00
Main Channel	286382.8	100 - Yr Encroac	828.54	828.54	0.00
Main Channel	286352.8	100 - Yr	828.46	828.46	0.00
Main Channel	286352.8	100 - Yr Encroac	828.46	828.46	0.00
Main Channel	286332.8	100 - Yr	828.36	828.36	0.00
Main Channel	286332.8	100 - Yr Encroac	828.36	828.36	0.00

Comparison of Modeled Flood Peak Stages					
Reach	River Station	Profile	Water Surface Elevation		
			(ft)		
			Existing	Proposed	Change
Main Channel	286302.8	100 - Yr	828.28	828.28	0.00
Main Channel	286302.8	100 - Yr Encroac	828.28	828.28	0.00
Main Channel	285591.3	100 - Yr	828.20	828.20	0.00
Main Channel	285591.3	100 - Yr Encroac	828.20	828.20	0.00
Main Channel	284021.4	100 - Yr	827.57	827.57	0.00
Main Channel	284021.4	100 - Yr Encroac	827.57	827.57	0.00
Main Channel	284001.4	100 - Yr	827.57	827.57	0.00
Main Channel	284001.4	100 - Yr Encroac	827.57	827.57	0.00
Main Channel	283990.9	100 - Yr	827.53	827.53	0.00
Main Channel	283990.9	100 - Yr Encroac	827.53	827.53	0.00
Main Channel	283970.9	100 - Yr	827.53	827.53	0.00
Main Channel	283970.9	100 - Yr Encroac	827.53	827.53	0.00
Main Channel	283550.2	100 - Yr	827.03	827.03	0.00
Main Channel	283550.2	100 - Yr Encroac	827.03	827.03	0.00
Main Channel	283530.2	100 - Yr	826.99	826.99	0.00
Main Channel	283530.2	100 - Yr Encroac	826.99	826.99	0.00
Main Channel	283520.1	100 - Yr	826.13	826.13	0.00
Main Channel	283520.1	100 - Yr Encroac	826.13	826.13	0.00
Main Channel	283500.1	100 - Yr	826.50	826.50	0.00
Main Channel	283500.1	100 - Yr Encroac	826.50	826.50	0.00
Main Channel	283166.5	100 - Yr	826.17	826.17	0.00
Main Channel	283166.5	100 - Yr Encroac	826.17	826.17	0.00
Main Channel	282763.4	100 - Yr	825.91	825.91	0.00
Main Channel	282763.4	100 - Yr Encroac	825.91	825.91	0.00
Main Channel	281745.1	100 - Yr	825.19	825.19	0.00
Main Channel	281745.1	100 - Yr Encroac	825.19	825.19	0.00
Main Channel	281695.1	100 - Yr	825.15	825.15	0.00
Main Channel	281695.1	100 - Yr Encroac	825.15	825.15	0.00
Main Channel	281591	100 - Yr	824.99	824.99	0.00
Main Channel	281591	100 - Yr Encroac	824.99	824.99	0.00
Main Channel	281541	100 - Yr	824.93	824.93	0.00
Main Channel	281541	100 - Yr Encroac	824.93	824.93	0.00
Main Channel	280958.3	100 - Yr	824.24	824.24	0.00
Main Channel	280958.3	100 - Yr Encroac	824.24	824.24	0.00
Main Channel	280052.7	100 - Yr	823.24	823.24	0.00
Main Channel	280052.7	100 - Yr Encroac	823.24	823.24	0.00
Main Channel	277948.7	100 - Yr	821.13	821.13	0.00
Main Channel	277948.7	100 - Yr Encroac	821.13	821.13	0.00
Main Channel	277918.7	100 - Yr	821.09	821.09	0.00
Main Channel	277918.7	100 - Yr Encroac	821.09	821.09	0.00
Main Channel	277674.5	100 - Yr	820.65	820.65	0.00
Main Channel	277674.5	100 - Yr Encroac	820.65	820.65	0.00
Main Channel	277644.5	100 - Yr	820.24	820.24	0.00
Main Channel	277644.5	100 - Yr Encroac	820.24	820.24	0.00
Main Channel	277182.8	100 - Yr	818.44	818.44	0.00
Main Channel	277182.8	100 - Yr Encroac	818.44	818.44	0.00
Main Channel	277006.6	100 - Yr	818.35	818.35	0.00
Main Channel	277006.6	100 - Yr Encroac	818.35	818.35	0.00
Main Channel	276976.6	100 - Yr	818.27	818.27	0.00
Main Channel	276976.6	100 - Yr Encroac	818.27	818.27	0.00

Comparison of Modeled Flood Peak Stages					
Reach	River Station	Profile	Water Surface Elevation		
			(ft)		
			Existing	Proposed	Change
Main Channel	276895.1	100 - Yr	817.89	817.89	0.00
Main Channel	276895.1	100 - Yr Encroac	817.89	817.89	0.00
Main Channel	276865.1	100 - Yr	817.84	817.84	0.00
Main Channel	276865.1	100 - Yr Encroac	817.84	817.84	0.00
Main Channel	276078.2	100 - Yr	816.79	816.79	0.00
Main Channel	276078.2	100 - Yr Encroac	816.79	816.79	0.00
Main Channel	276073.2	100 - Yr	816.77	816.77	0.00
Main Channel	276073.2	100 - Yr Encroac	816.77	816.77	0.00
Main Channel	276065.7	100 - Yr	815.36	815.36	0.00
Main Channel	276065.7	100 - Yr Encroac	815.36	815.36	0.00
Main Channel	276060.7	100 - Yr	815.24	815.24	0.00
Main Channel	276060.7	100 - Yr Encroac	815.24	815.24	0.00
Main Channel	276045.8	100 - Yr	814.13	814.13	0.00
Main Channel	276045.8	100 - Yr Encroac	814.13	814.13	0.00
Main Channel	276040.8	100 - Yr	814.05	814.05	0.00
Main Channel	276040.8	100 - Yr Encroac	814.05	814.05	0.00
Main Channel	276021.2	100 - Yr	813.74	813.74	0.00
Main Channel	276021.2	100 - Yr Encroac	813.74	813.74	0.00
Main Channel	276001.2	100 - Yr	813.49	813.49	0.00
Main Channel	276001.2	100 - Yr Encroac	813.49	813.49	0.00
Main Channel	274467.7	100 - Yr	813.53	813.53	0.00
Main Channel	274467.7	100 - Yr Encroac	813.53	813.53	0.00
Main Channel	273058.2	100 - Yr	813.04	813.04	0.00
Main Channel	273058.2	100 - Yr Encroac	813.04	813.04	0.00
Main Channel	271700.9	100 - Yr	812.76	812.76	0.00
Main Channel	271700.9	100 - Yr Encroac	812.76	812.76	0.00
Main Channel	270868.6	100 - Yr	811.82	811.82	0.00
Main Channel	270868.6	100 - Yr Encroac	811.82	811.82	0.00
Main Channel	269653.8	100 - Yr	811.12	811.12	0.00
Main Channel	269653.8	100 - Yr Encroac	811.12	811.12	0.00
Main Channel	268995.3	100 - Yr	810.48	810.48	0.00
Main Channel	268995.3	100 - Yr Encroac	810.48	810.48	0.00
Main Channel	268467	100 - Yr	810.30	810.30	0.00
Main Channel	268467	100 - Yr Encroac	810.30	810.30	0.00
Main Channel	267489.8	100 - Yr	810.00	810.00	0.00
Main Channel	267489.8	100 - Yr Encroac	810.00	810.00	0.00
Main Channel	266810.2	100 - Yr	809.87	809.87	0.00
Main Channel	266810.2	100 - Yr Encroac	809.87	809.87	0.00
Main Channel	265492	100 - Yr	809.62	809.62	0.00
Main Channel	265492	100 - Yr Encroac	809.62	809.62	0.00
Main Channel	262225	100 - Yr	809.47	809.47	0.00
Main Channel	262225	100 - Yr Encroac	809.47	809.47	0.00
Main Channel	261743	100 - Yr	809.43	809.43	0.00
Main Channel	261743	100 - Yr Encroac	809.43	809.43	0.00

APPENDIX B

Engineering “No-Rise” Certification

Engineering "No-Rise" Certification

Community: Greenville, City of County: Greenville State: South Carolina

Applicant Name: Geosyntec Consultants, Inc.

Engineer: Mark Ellard

Address: 6770 South Washington Avenue, Suite 3
Titusville, Florida 32780

Address: 6770 South Washington Avenue, Suite 3
Titusville, Florida 32780

Telephone: 321-269-5880

Telephone: 321-269-5880

SITE DATA:

Location: City of Greenville, SC Tax Map Number: 0138000100100 & 0054000300100 & 0054000600100

Address: East Bramlett Road, Greenville, South Carolina

Type of Development: Minor Improvement

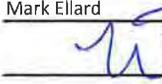
Description of Development: Implementation of surface water best management practices to reduce the potential for discharge of coal tar residuals, oily sheens, anoxic biofilm, and sediments to the Reedy River.

Name of Flood Source: FEMA FIRM Panel 381 of 625, Map Number 45045C0381E, Map Revised August 18, 2014

Comments: The Reedy River Master Plan HEC-RAS model was obtained from FEMA. Geosyntec modified the existing conditions model to simulate the proposed surface water BMPs. Modeling results demonstrate that the BMPs would not increase FEMA adopted floodplain stages, nor negatively impact the regulatory floodway (i.e., No-Rise).

This is to certify that I am a duly qualified engineer licensed to practice in the State of South Carolina. It is to further certify that the attached technical data supports the fact that the proposed development described above will not create any increase to the 100 year elevations on said flooding source above at published cross-sections in the Flood Insurance Study for the above community dated August 2014 and will not create any increase to the 100 year flood elevations at unpublished cross-section in the vicinity of the proposed development.

Name: Mark Ellard

Signature: 

Date: 7/14/2021

Title: Senior Principal

License No.: 16345





Permit Summary

9/12/2021

Application number 21 - 2644
 Property Address 130 WILLARD ST
 Parcel number 005400-06-00100
 Application type SITE APPLICATION - COMMERCIAL
 Property Use COMMERCIAL INDUSTRIAL
 Application valuation 0

Owner Information

SEABOARD COAST LINE RAILROAD C
 500 WATER ST
 JACKSONVILLE, FL 32202
 (0) 0

Contractor TM

CONTAMINANT CONTROL INC
 C C I ENVIRONMENTAL SERVICES
 FAYETTEVILLE NC 28306
 (910) 4847000

Structure Information

Other structure info APP SUBMITTED BY E-FORM 0.00

Permit Information

Permit Type LAND DIST PRMT (MINOR) **Permit Pin 1709054**
 Valuation 0
 Permit Fees 200.00

Issue Date 9/13/21 Expiration Date 3/13/22

Application Information

Application Number 21 - 2644
 Scope of Work/Special Notes and Comments
 7/14/2021, 4:25:29 PM GRVLMBG

Construction of stormwater best management practices to improve water quality and reduce erosion and sedimentation.

Contractor is responsible for any damage to streets, sidewalks, curbs, gutters or any other public property.

Damage must be repaired or replaced

prior to final inspections.

Parking on sidewalks is prohibited. All parking must be on site or in properly designated parking spaces.

Fee Summary	Amount	Paid	Credited	Due
Permit Fee Total	200.00	200.00	0.00	0.00
Other Fee Total	350.00	350.00	0.00	0.00
Grand Total	550.00	550.00	0.00	0.00
SITE APPLICATION FEE		200.00		
SW, MAJOR STORMWATER		150.00		

Required/Sequenced Inspections

Permit type SIT2
Permit Sequence # 0
Inspection Code LANDSCAPE, FINAL
Permit type SIT2
Permit Sequence # 0
Inspection Code ZONING, FINAL
Permit type SIT2
Permit Sequence # 0
Inspection Code FIRE, SITE
Permit type SIT2
Permit Sequence # 0
Inspection Code ENG, SITE (CI) FINAL

PERMITTED CONSTRUCTION

A permit for construction work at this location has been issued by the City of Greenville, Building Codes Department.

Address: 130 WILLARD ST
Permit #: 21 - 2644
Job Description: SITE APPLICATION - COMMERCIAL
Contractor: CONTAMINANT CONTROL INC
Phone #: 4847000

This placard must be placed prominently at the primary entrance to the work site or in a prominent location visible to the public

Online project management including plan tracking, inspection scheduling and all permitting resources can be accessed through the City's Click2Gov link <http://permits.greenvillesc.gov/>

Telephone Numbers:

Building Inspectors: 467-4555 or 467-4562

Electrical Inspectors: 467-4563 or 467-4564

Mechanical Inspectors: 467-4556 or 467-4561

Plumbing Inspectors: 467-4559 or 467-4560

Fire Inspectors: 467-4450

Application Inspections for 21 - 00002644

Note: Zoning and Site Inspections must be requested by the Building Contractor.

Permit Description ↑↓	Inspection Type ↑↓	Scheduled Date ↑↓	Status ↑↓	Result Date ↑↓
+ LAND DIST PRMT (MINOR)	LANDSCAPE, FINAL	10/26/2021	NOT APPLICABLE	10/26/2021
+ LAND DIST PRMT (MINOR)	ZONING, FINAL	10/26/2021	APPROVED	10/25/2021
+ LAND DIST PRMT (MINOR)	FIRE, SITE	10/26/2021	APPROVED	11/02/2021
+ LAND DIST PRMT (MINOR)	ENG, SITE (CI) FINAL	11/03/2021	APPROVED	11/03/2021

Showing 1 to 4 of 4 entries

Todd Plating

From: Terry Childress <terrych@re-wa.org>
Sent: Tuesday, October 5, 2021 8:55 AM
To: Todd Plating
Subject: Re: ReWa ROW access - Willard Street (Bramlette MGP project)

EXTERNAL: This message was sent from outside your organization.

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Glad to help,?Have a great day!

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From: Todd Plating <tplating@synterracorp.com>
Sent: Monday, October 4, 2021 12:15:24 PM
To: Terry Childress <terrych@re-wa.org>
Cc: chrissw@re-wa.org <chrissw@re-wa.org>; David Riotte <DRiotte@Geosyntec.com>; Powell, Richard E. <Richard.Powell2@duke-energy.com>
Subject: RE: ReWa ROW access - Willard Street (Bramlette MGP project)

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Terry,

Thanks again for taking my call last week and connecting me with Chris Swords. Just to close the loop, I understand Chris and a ReWa engineer were able to visit the site (near 130 Willard Street) to view the exposed sewer line. The line was determined to be inactive and no specific guidance with regards to placing fill around the pipe was provided. We will do our best to protect the inactive sewer pipe as we backfill and complete our project with no guarantees or warranties as they relate to that pipe. Please let me know if you have any additional questions or concerns.

Thank you,

Todd Plating, P.G.*



148 River Street, Suite 220
Greenville, South Carolina 29601
Main: 864.421.9999
Mobile: 864.420.8656
Email: tplating@synterracorp.com
www.synterracorp.com

* Registered in SC, NC

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 - (iii) Do not use, copy, or distribute the contents in any form.
 - (iv) Notify me by return email or by calling 864.421.9999.
- No privilege is waived by inadvertent transmission.

From: Terry Childress <terrych@re-wa.org>
Sent: Thursday, September 16, 2021 8:06 AM
To: Todd Plating <tplating@synterracorp.com>
Subject: RE: ReWa ROW access - Willard Street (Bramlette MGP project)

OK, Thanks, Terry

From: Todd Plating <tplating@synterracorp.com>
Sent: Wednesday, September 15, 2021 12:25 PM
To: Terry Childress <terrych@re-wa.org>
Subject: RE: ReWa ROW access - Willard Street (Bramlette MGP project)

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Terry,

Good afternoon – I just wanted to give you a heads up we will be working in and around the ReWa easement near Willard Street in Greenville. We will likely be in that area for the next two weeks. Please let me know if you have any questions or concerns.

Thanks!

Todd Plating, P.G.*



148 River Street, Suite 220
Greenville, South Carolina 29601
Main: 864.421.9999
Mobile: 864.420.8656
Email: tplating@synterracorp.com
www.synterracorp.com

* Registered in SC, NC

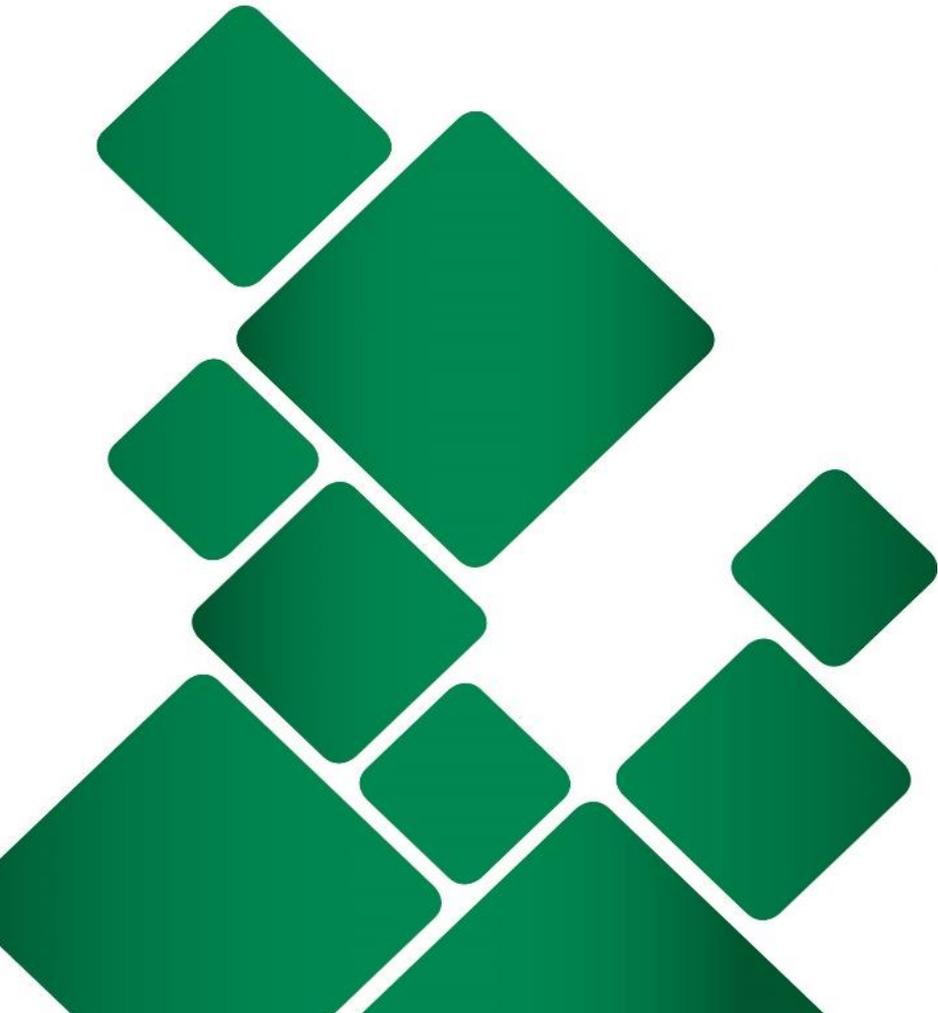
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APPENDIX B

SITE PHOTOGRAPH LOG





Turbidity curtain installation
Visual inspection



DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021



www.synterraccorp.com

PHOTO 1
TURBIDITY CURTAIN
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA



Turbidity curtain installation
Bollard installation



DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021



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PHOTO 2
TURBIDITY CURTAIN
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA



Turbidity curtain installation
Following heavy rain event



DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021



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PHOTO 3
TURBIDITY CURTAIN
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA



Downstream rock check dam installation
Following heavy rain event



DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021



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PHOTO 4
DOWNSTREAM ROCK CHECK DAM
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA



Upstream rock check dam installation
During installation



DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021



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PHOTO 5
UPSTREAM ROCK CHECK DAM
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA



Upstream rock check dam installation
Following heavy rain event



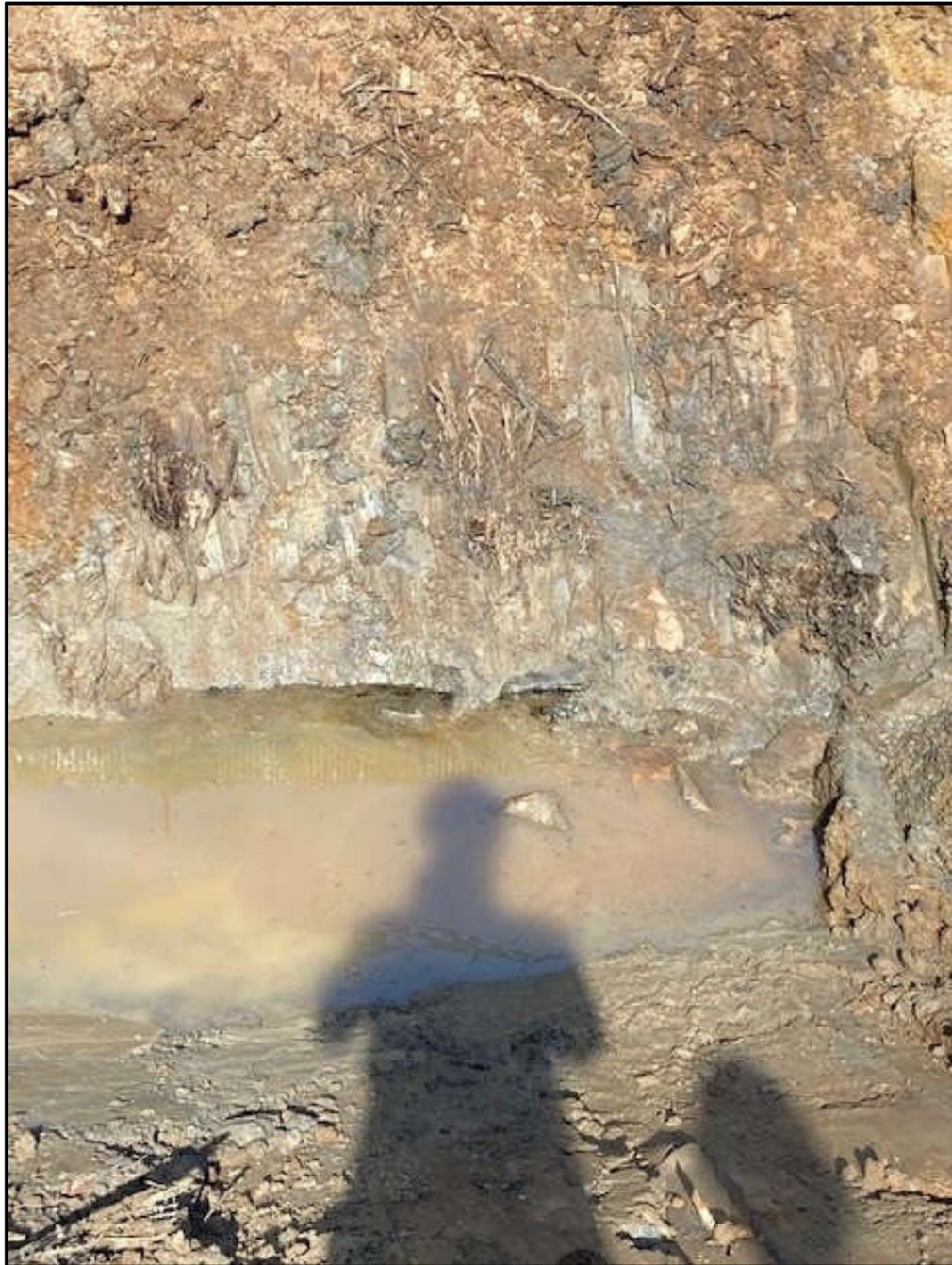
DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021



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PHOTO 6
UPSTREAM ROCK CHECK DAM
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA



Concrete cloth installation
Creosote posts located during excavation



DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021



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**PHOTO 7
CONCRETE CLOTH
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA**



Concrete cloth installation
Following excavation of rip rap



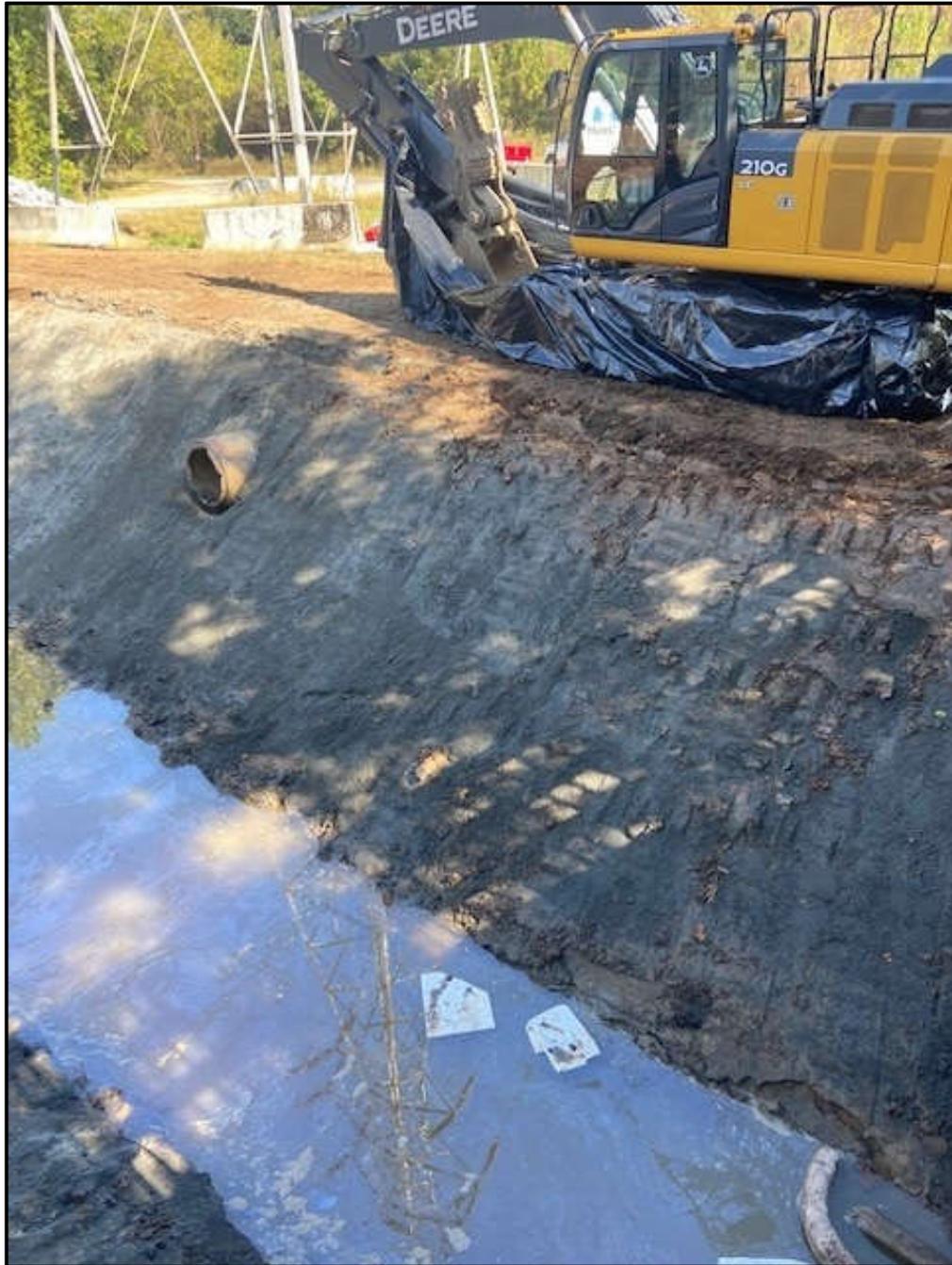
DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021



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PHOTO 8
CONCRETE CLOTH
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA



Concrete cloth installation
Graded slope



DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021



www.synterraccorp.com

PHOTO 9
CONCRETE CLOTH
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA



Concrete cloth installation
Installation of culvert extension



DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021



www.synterraccorp.com

**PHOTO 10
CONCRETE CLOTH
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA**



Concrete cloth installation
Cloth installation



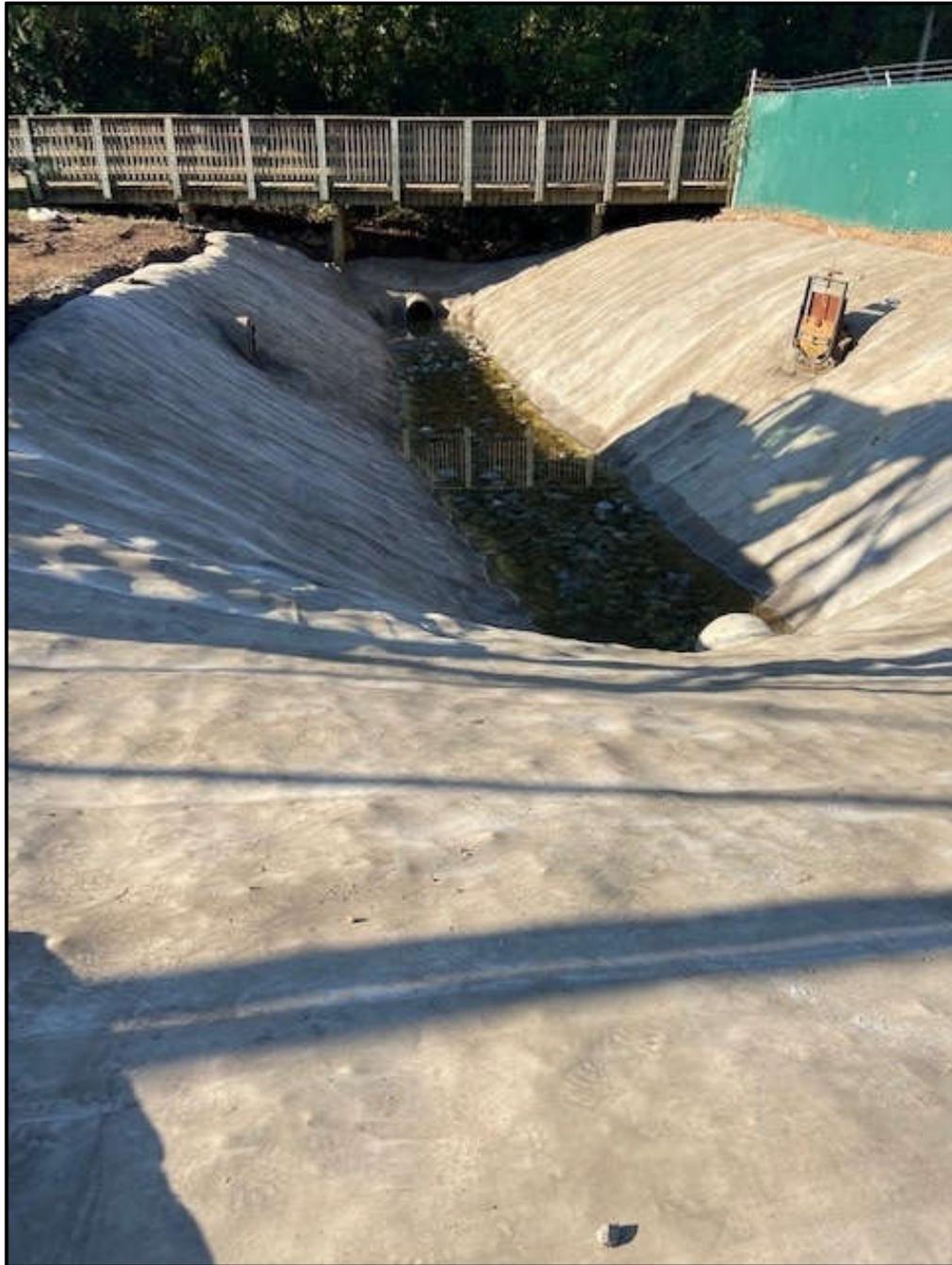
DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021



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**PHOTO 11
CONCRETE CLOTH
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA**



Concrete cloth installation
Cloth installed



DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021



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**PHOTO 12
CONCRETE CLOTH
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA**



Landscaping

Graded and hydroseeded working area near concrete cloth installation



DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021



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**PHOTO 13
LANDSCAPING
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA**



Landscaping

Graded and hydroseeded working area near concrete cloth installation



DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021



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**PHOTO 14
LANDSCAPING
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA**



Landscaping

Graded and hydroseeded working area near both rock check dams



DRAWN BY: T. KING
REVISED BY:
CHECKED BY: T. PLATING
APPROVED BY: T. PLATING
PROJECT MANAGER: T. PLATING

DATE: DECEMBER 2021

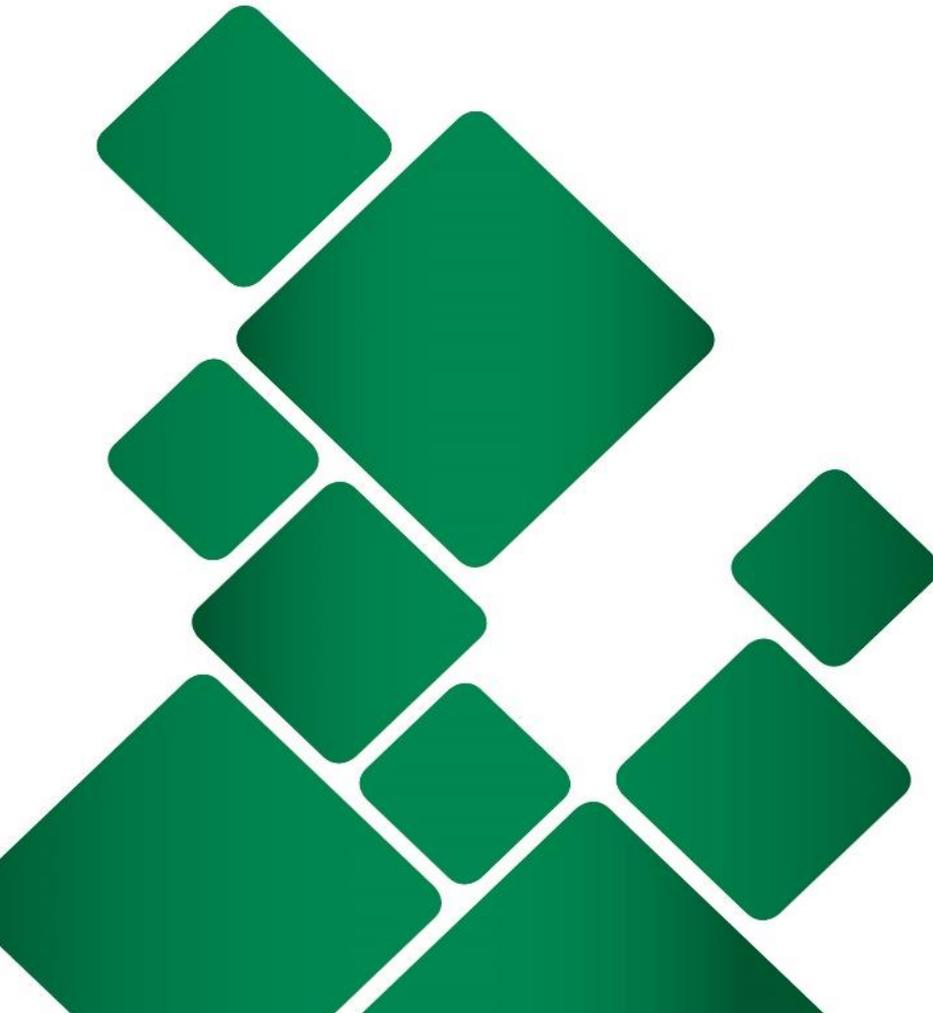


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**PHOTO 15
LANDSCAPING
INTERIM SURFACE WATER BEST
MANAGEMENT PRACTICE CONSTRUCTION
COMPLETION REPORT
FORMER BRAMLETTE MGP
GREENVILLE, SOUTH CAROLINA**

APPENDIX C

WASTE MANIFESTS AND SCALE TICKETS





NON-HAZARDOUS WASTE MANIFEST

1463515

Please print or type.

1. <input type="checkbox"/> Generator's US EPA ID Number		<input type="checkbox"/> Generator's State ID Number		Manifest Document Number		2. Page 1 of	
3. Generator's Name and Mailing Address DUKE ENERGY CAROLINAS 400 EAST REMIT ROAD GREENVILLE, SC				5. Generating Location (if different) SOLID WASTE CONTROL 381 LANE PARKWAY SALURBURY, SC 29146			
4. Phone () 704-273-1500				6. Phone ()			
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone		
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone		
13. Designated T/S/D Facility Name and Site Address 869 Wildcat Rd Greene, SC 29335			14. US EPA ID Number		15. Facility's Phone 254-969-4460		
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity
a. MGP-RELATED SOILS AND SEDIMENTS			3152131697 2/15/2023		No. Type		20. Unit Wt/Vol
b.							
c.							
21. Additional Descriptions for Materials Listed Above							
22. Special Handling Instructions and Additional Information MANIFEST EVERYLOAD CUSTOMER 333380							
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.							
Printed/Typed Name Tyler Wyatt Sr. Duke Energy				Signature <i>Tyler Wyatt</i>		Month Day Year 10 13 21	
24. Transporter #1: Acknowledgement of Receipt of Materials							
Printed/Typed Name Robyrt B Mason				Signature <i>Robyrt B Mason</i>		Month Day Year 10 13 21	
25. Transporter #2: Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
26. Discrepancy Indication Space							
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)							
Printed/Typed Name Melanie G				Signature <i>Melanie G</i>		Month Day Year 10 13 21	

GENERATOR

TRANSPORTER

T/S/D FACILITY



NON-HAZARDOUS WASTE MANIFEST

1463514

Please print or type.

1. <input type="checkbox"/> Generator's US EPA ID Number		<input type="checkbox"/> Generator's State ID Number		Manifest Document Number		2. Page 1 of	
3. Generator's Name and Mailing Address DUKE ENERGY CAROLINAS 400 EAST REMLET ROAD GREENVILLE, SC 704-273-1500				5. Generating Location (if different) CONTAMINANT CONTROL 2811 ANNE PARKWAY COLUMBIA, SC 29145			
4. Phone ()				6. Phone ()			
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone		
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone		
13. Designated T/S/D Facility Name and Site Address 858 Wilcox Rd Ennes, SC 29335			14. US EPA ID Number		15. Facility's Phone (616-969-1460)		
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity
a. MUP-RELATED SOILS AND SEDIMENTS			31152131597 3/15/2024		No. Type		20. Unit Wt/Vol
b.							
c.							
21. Additional Descriptions for Materials Listed Above							
22. Special Handling Instructions and Additional Information MANIFEST EVERY LOAD CUSTOMER 30093							
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.							
Printed/Typed Name Tyler Leggett For Duke Energy				Signature <i>T. Leggett</i>		Month Day Year 10 13 21	
24. Transporter #1: Acknowledgement of Receipt of Materials							
Printed/Typed Name Dennis A. Vickery				Signature <i>D. Vickery</i>		Month Day Year 10 13 21	
25. Transporter #2: Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
26. Discrepancy Indication Space							
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)							
Printed/Typed Name Marianne L				Signature <i>M</i>		Month Day Year 10 13 21	

GENERATOR

TRANSPORTER

T/S/D FACILITY



NON-HAZARDOUS WASTE MANIFEST

1463512

Please print or type.

1. <input type="checkbox"/> Generator's US EPA ID Number		<input type="checkbox"/> Generator's State ID Number		Manifest Document Number		2. Page 1 of		
3. Generator's Name and Mailing Address: DUKE ENERGY CAROLINAS 460 EAST RENOLET ROAD 704-373-1500 GREENVILLE, SC				5. Generating Location (if different): CONTAMINANT CONTROL 201 LANE PARKWAY SALISBURY, SC 29146				
4. Phone ()		6. Phone ()		7. Transporter #1 Company Name		8. US EPA ID Number		
9. Transporter #1's Phone		10. Transporter #2 Company Name		11. US EPA ID Number		12. Transporter #2's Phone		
13. Designated T/S/D Facility Name and Site Address: 868 Wilcox Rd Enderle, SC 29304				14. US EPA ID Number		15. Facility's Phone: 264-959-1460		
16. Waste Shipping Name and Description		17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity	20. Unit W/Vol	
a. MSP-RELATED SOILS AND SEDIMENTS		01152101687 01/16/2024		No.	Type			
b.								
c.								
21. Additional Descriptions for Materials Listed Above								
22. Special Handling Instructions and Additional Information MANIFEST EVERYLOAD CUSTOMER 303380								
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.								
Printed/Typed Name Tyler Heath for Duke Energy				Signature <i>Tyler Heath</i>		Month 10	Day 12	Year 21
24. Transporter #1: Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature		Month	Day	Year
25. Transporter #2: Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature		Month	Day	Year
26. Discrepancy Indication Space								
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)								
Printed/Typed Name Melanie				Signature <i>Melanie</i>		Month	Day	Year

GENERATOR

TRANSPORTER

T/S/D FACILITY



NON-HAZARDOUS WASTE MANIFEST

1463511

Please print or type.

1. <input type="checkbox"/> Generator's US EPA ID Number		<input type="checkbox"/> Generator's State ID Number		Manifest Document Number		2. Page 1 of	
3. Generator's Name and Mailing Address DUKE ENERGY CAROLINAS 408 EAST REMET ROAD GREENVILLE, SC 704-273-1500				5. Generating Location (if different) CONTAMINANT CONTROL 261 LANE PARKWAY SALISBURY, SC 29146			
4. Phone ()				6. Phone ()			
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone		
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone		
13. Designated T/S/D Facility Name and Site Address RFR Wicket Rd Ennore SC 29056			14. US EPA ID Number		15. Facility's Phone 864-923-4460		
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity
a. MSP RELATED SOILS AND SEDIMENTS			31152191697 01/16/2024		No. Type		20. Unit WUVol
b.							
c.							
21. Additional Descriptions for Materials Listed Above							
22. Special Handling Instructions and Additional Information MANIFEST EVERYLOAD CUSTOMER 003360							
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.							
Printed/Typed Name Tyler Wyatt for Duke Energy				Signature Tyler Wyatt		Month Day Year 10 1 21	
24. Transporter #1: Acknowledgement of Receipt of Materials							
Printed/Typed Name Dennis A. Vickary				Signature		Month Day Year 10 1 21	
25. Transporter #2: Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
26. Discrepancy Indication Space							
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)							
Printed/Typed Name Diana				Signature		Month Day Year 10 1 21	

GENERATOR

TRANSPORTER

T/S/D FACILITY



NON-HAZARDOUS WASTE MANIFEST

1463510

Please print or type.

1. <input type="checkbox"/> Generator's US EPA ID Number		<input type="checkbox"/> Generator's State ID Number		Manifest Document Number		2. Page 1 of		
3. Generator's Name and Mailing Address DUKE ENERGY CAROLINAS 400 EAST REMILT ROAD GREENVILLE, SC				5. Generating Location (if different) DEPARTMENT CONTROL 281 LANE PARKWAY SALISBURY, SC 29146				
4. Phone () 704-277-1590				6. Phone ()				
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone			
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone			
13. Designated T/S/D Facility Name and Site Address 369 Walnut Rd Eggen, SC 29029			14. US EPA ID Number		15. Facility's Phone (854) 931-4460			
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity	20. Unit WU/Vol
a. MCP RELATED SOILS AND SEDIMENTS			31152131697 8/16/2024		No. Type			
b.								
c.								
21. Additional Descriptions for Materials Listed Above								
22. Special Handling Instructions and Additional Information MANIFEST OVERLOAD CUSTOMER 00000								
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.								
Printed/Typed Name Tyler Wyatt for Duke Energy				Signature Tyler Wyatt		Month Day Year 10 1 21		
24. Transporter #1: Acknowledgement of Receipt of Materials								
Printed/Typed Name Robert B. Mason				Signature Robert B. Mason		Month Day Year 10 1 21		
25. Transporter #2: Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature		Month Day Year		
26. Discrepancy Indication Space								
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)								
Printed/Typed Name Olivia				Signature Olivia		Month Day Year 10 1 21		

GENERATOR
TRANSPORTER
T/S/D FACILITY



NON-HAZARDOUS WASTE MANIFEST

1463509

Please print or type.

1. <input type="checkbox"/> Generator's US EPA ID Number		<input type="checkbox"/> Generator's State ID Number		Manifest Document Number		2. Page 1 of	
3. Generator's Name and Mailing Address DUKE ENERGY CAROLINAS 400 EAST REMMET ROAD GREENWILT, SC 704-273-1520				5. Generating Location (if different) CONTAMINANT CONTROL 201 LANE PARKWAY SALISBURY, SC 29146			
4. Phone ()				6. Phone ()			
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone		
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone		
13. Designated T/S/D Facility Name and Site Address 268 Wildcat Rd Fruita, SC 29235			14. US EPA ID Number		15. Facility's Phone 864-963-4460		
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity
a. MGP-RELATED SOILS AND SEDIMENTS			31152131697 01/16/2024		No. Type		20. Unit Wt/Vol
b.							
c.							
21. Additional Descriptions for Materials Listed Above							
22. Special Handling Instructions and Additional Information MANIFEST EVERYLOAD CUSTOMER 100180							
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.							
Printed/Typed Name Tyler Wyatt for Duke Energy				Signature Tyler Wyatt		Month Day Year 10 1 21	
24. Transporter #1: Acknowledgement of Receipt of Materials							
Printed/Typed Name TILSON				Signature		Month Day Year	
25. Transporter #2: Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
26. Discrepancy Indication Space							
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)							
Printed/Typed Name Clara				Signature		Month Day Year 10 1 21	

GENERATOR

TRANSPORTER

T/S/D FACILITY



NON-HAZARDOUS WASTE MANIFEST

1463508

Please print or type.

1. <input type="checkbox"/> Generator's US EPA ID Number		<input type="checkbox"/> Generator's State ID Number		Manifest Document Number		2. Page 1 of	
3. Generator's Name and Mailing Address: DUKE ENERGY CAROLINAS 400 EAST PEMALE ROAD GREENVILLE, SC				5. Generating Location (if different): CONTAINMENT CONTROL 231 LAKE PARKWAY GALLSBURY, SC 29316			
4. Phone () 704-273-1500				6. Phone ()			
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone		
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone		
13. Designated T/S/D Facility Name and Site Address: 865 Wilcox Rd Enora, SC 29005			14. US EPA ID Number		15. Facility's Phone 864-889-4490		
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity
a. MSP-RELATED SOLIDS AND SEDIMENTS			31152131597 04/6/2024		No. Type		20. Unit W/Vol
b.							
c.							
21. Additional Descriptions for Materials Listed Above							
22. Special Handling Instructions and Additional Information MANIFEST EVERYLOAD CUSTOMER 10123							
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.							
Printed/Typed Name Tyler Wyatt for Duke Energy				Signature Tyler Wyatt		Month Day Year 10 1 21	
24. Transporter #1: Acknowledgement of Receipt of Materials							
Printed/Typed Name No Brnt B mofa				Signature [Signature]		Month Day Year 10 1 21	
25. Transporter #2: Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
26. Discrepancy Indication Space							
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)							
Printed/Typed Name Melaine B				Signature [Signature]		Month Day Year 10 1 21	

GENERATOR

TRANSPORTER

T/S/D FACILITY



NON-HAZARDOUS WASTE MANIFEST

1463507

Please print or type.

1. <input type="checkbox"/> Generator's US EPA ID Number		<input type="checkbox"/> Generator's State ID Number		Manifest Document Number		2. Page 1 of		
3. Generator's Name and Mailing Address DUKE ENERGY CAROLINAS 400 EAST REMJET ROAD GREENVILLE, SC 704-273-1500				5. Generating Location (if different) CONTAMINANT CONTROL 231 LANE PARKWAY SALUSBURY, SC 28146				
4. Phone ()				6. Phone ()				
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone			
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone			
13. Designated T/S/D Facility Name and Site Address 669 Walnut Rd Enoree, SC 29335			14. US EPA ID Number		15. Facility's Phone (616-969-4460)			
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity	20. Unit WU/Vol
					No.	Type		
a. MGP-RELATED SOILS AND SEDIMENTS			31152131397 8/16/2021					
b.								
c.								
21. Additional Descriptions for Materials Listed Above								
22. Special Handling Instructions and Additional Information MANIFEST EVERYLOAD CUSTOMER 333383								
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.								
Printed/Typed Name Tyler Whitt for Duke Energy				Signature Tyler Whitt		Month 10	Day 1	Year 21
24. Transporter #1: Acknowledgement of Receipt of Materials								
Printed/Typed Name Dennis A. Vickers				Signature Dennis A. Vickers		Month 10	Day 1	Year 21
25. Transporter #2: Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature		Month	Day	Year
26. Discrepancy Indication Space								
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)								
Printed/Typed Name Melanie B				Signature Melanie B		Month 10	Day 1	Year 21

GENERATOR

TRANSPORTER

T/S/D FACILITY



NON-HAZARDOUS WASTE MANIFEST

1463506

Please print or type.

1. <input type="checkbox"/> Generator's US EPA ID Number		<input type="checkbox"/> Generator's State ID Number		Manifest Document Number		2. Page 1 of	
3. Generator's Name and Mailing Address: DUKE ENERGY CAROLINAS 400 EAST PENNET ROAD GREENVILLE, SC				5. Generating Location (if different): CONTAINER CONTROL 201 LANE PARKWAY SALISBURY, SC 29146			
4. Phone () 704-273-1500				6. Phone ()			
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone		
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone		
13. Designated T/S/D Facility Name and Site Address: 888 Wildcat Rd Ennes, SC 29035			14. US EPA ID Number		15. Facility's Phone 854-963-4450		
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity
					No. Type		20. Unit Wt/Vol
a. MSP- RELATED SOILS AND SEDIMENTS			31152131697 01/6/2024				
b.							
c.							
21. Additional Descriptions for Materials Listed Above							
22. Special Handling Instructions and Additional Information MANIFEST EVERY LOAD CUSTOMER 10000							
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.							
Printed/Typed Name Tyler Wharth for Duke Energy				Signature Tyler Wharth		Month Day Year 10 / 1 / 21	
24. Transporter #1: Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
25. Transporter #2: Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
26. Discrepancy Indication Space							
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)							
Printed/Typed Name M. Williams				Signature M. Williams		Month Day Year 10/1/21	

GENERATOR

TRANSPORTER

T/S/D/FACILITY



NON-HAZARDOUS WASTE MANIFEST

1463505

Please print or type.

1. <input type="checkbox"/> Generator's US EPA ID Number		<input type="checkbox"/> Generator's State ID Number		Manifest Document Number		2. Page 1 of		
3. Generator's Name and Mailing Address DUKE ENERGY CAROLINAS 400 EAST REMLET ROAD GREENVILLE, SC 704-270-1500				5. Generating Location (if different) CONTAMINANT CONTROL 201 LANE PARKWAY SALISBURY, SC 29146				
4. Phone ()		6. Phone ()		7. Transporter #1 Company Name		8. US EPA ID Number		
9. Transporter #1's Phone		10. Transporter #2 Company Name		11. US EPA ID Number		12. Transporter #2's Phone		
13. Designated T/S/D Facility Name and Site Address 868 Wilcox Rd Enoree, SC 29335		14. US EPA ID Number		15. Facility's Phone 254-960-4460				
16. Waste Shipping Name and Description		17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity	20. Unit Wt/Vol	
a. MOP-RELATED SOILS AND SEDIMENTS		31152131697 8/16/2021		No.	Type			
b.								
c.								
21. Additional Descriptions for Materials Listed Above								
22. Special Handling Instructions and Additional Information MANIFEST EVERYLOAD CUSTOMER 33350								
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.								
Printed/Typed Name Tyler Wyatt for Duke Energy				Signature Tyler Wyatt		Month 10	Day 1	Year 21
24. Transporter #1: Acknowledgement of Receipt of Materials								
Printed/Typed Name Dennis A. V. ...				Signature		Month 10	Day 1	Year 21
25. Transporter #2: Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature		Month	Day	Year
26. Discrepancy Indication Space								
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)								
Printed/Typed Name M. ...				Signature		Month 10	Day 1	Year 21

GENERATOR

TRANSPORTER

T/S/D FACILITY



NON-HAZARDOUS WASTE MANIFEST

1463504

Please print or type.

1. <input type="checkbox"/> Generator's US EPA ID Number		<input type="checkbox"/> Generator's State ID Number		Manifest Document Number		2. Page 1 of	
3. Generator's Name and Mailing Address DUKE ENERGY CAROLINAS 100 EAST REMILT ROAD GREENVILLE, SC 704-273-1500				5. Generating Location (if different) CONTAMINANT CONTROL 281 LANE PARKWAY SALISBURY, SC 29145			
4. Phone ()				6. Phone ()			
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone		
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone		
13. Designated T/S/D Facility Name and Site Address 609 Wildcat Rd Eno, SC 29335			14. US EPA ID Number		15. Facility's Phone 864-969-4460		
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity
a. MSP-RELATED SOLIDS AND SEDIMENTS			31152131897 07/16/2024		No. Type		20. Unit Wt/Vol
b.							
c.							
21. Additional Descriptions for Materials Listed Above							
22. Special Handling Instructions and Additional Information MANIFEST EVERYLOAD CUSTOMER 303333							
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.							
Printed/Typed Name Taylor Wiggatt for Duke Energy				Signature Taylor Wiggatt		Month Day Year 10 7 21	
24. Transporter #1: Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
25. Transporter #2: Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
26. Discrepancy Indication Space							
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)							
Printed/Typed Name Marianne B				Signature LB		Month Day Year 10 1 21	

GENERATOR

TRANSPORTER

I/S/D FACILITY



NON-HAZARDOUS WASTE MANIFEST

1463503

Please print or type.

1. <input type="checkbox"/> Generator's US EPA ID Number		<input type="checkbox"/> Generator's State ID Number		Manifest Document Number		2. Page 1 of		
3. Generator's Name and Mailing Address DUKE ENERGY CAROLINAS 101 EAST REMLET ROAD GREENVILLE, SC 704-273-1930				5. Generating Location (if different) SOUTH CAROLINA CONTROL 201 LANE PARKWAY SOUTH BERRY, SC 29146				
4. Phone ()				6. Phone ()				
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone			
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone			
13. Designated T/S/D Facility Name and Site Address POB Wilkint Rd Greene, SC 29035			14. US EPA ID Number		15. Facility's Phone (616) 263-4460			
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity	20. Unit Wt/Vol
a. MGP RELATED SOILS AND SEDIMENTS			215213167 04/2024		No. Type			
b.								
c.								
21. Additional Descriptions for Materials Listed Above								
22. Special Handling Instructions and Additional Information MANIFEST OVERLOAD CUSTOMER 003321								
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.								
Printed/Typed Name Tyler Wyatt for Duke Energy				Signature Tyler Wyatt		Month Day Year 10 1 21		
24. Transporter #1: Acknowledgement of Receipt of Materials								
Printed/Typed Name Robert B. Mason				Signature Robert B. Mason		Month Day Year 10 2 21		
25. Transporter #2: Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature		Month Day Year		
26. Discrepancy Indication Space								
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)								
Printed/Typed Name M. Williams				Signature		Month Day Year 10 1 21		

GENERATOR

TRANSPORTER

T/S/D FACILITY



NON-HAZARDOUS WASTE MANIFEST

1463502

Please print or type.

1. <input type="checkbox"/> Generator's US EPA ID Number		2. <input type="checkbox"/> Generator's State ID Number		Manifest Document Number		3. Page 1 of		
3. Generator's Name and Mailing Address DUKE ENERGY CAROLINA 400 EAST BENTLEY ROAD COLUMBIANA, SC 29522				5. Generating Location (if different) CONTAINMENT CONTROL 201 LANE PARKWAY SHELBY COUNTY, TN 38140				
4. Phone ()				6. Phone ()				
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone			
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone			
13. Designated T/S/D Facility Name and Site Address 5501 WILSON RD FARROW, SC 29505			14. US EPA ID Number		15. Facility's Phone 853-569-4463			
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity	20. Unit Wt/Vol
					No.	Type		
a. NON-REPAIRED BODIES AND SEDIMENTS			311521131607 8/15/2024					
b.								
c.								
21. Additional Descriptions for Materials Listed Above								
22. Special Handling Instructions and Additional Information MANIFEST EVERY LOAD CUSTOMER 133283								
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.								
Printed/Typed Name Tyler Wyatt - Duke Energy				Signature Tyler Wyatt		Month 9	Day 30	Year 21
24. Transporter #1: Acknowledgement of Receipt of Materials								
Printed/Typed Name Robert B. Ingerson				Signature Robert B. Ingerson		Month 9	Day 30	Year 21
25. Transporter #2: Acknowledgement of Receipt of Materials								
Printed/Typed Name				Signature		Month	Day	Year
26. Discrepancy Indication Space								
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)								
Printed/Typed Name MECHANIC B				Signature MB		Month 9	Day 30	Year 21

GENERATOR

TRANSPORTER

T/S/D FACILITY



NON-HAZARDOUS WASTE MANIFEST

1463501

Please print or type.

1. <input type="checkbox"/> Generator's US EPA ID Number		<input type="checkbox"/> Generator's State ID Number		Manifest Document Number		2. Page 1 of	
3. Generator's Name and Mailing Address DUKE ENERGY CAROLINAS 100 EAST HEMLET ROAD GREENVILLE, NC 704-274-1500				5. Generating Location (if different) ENVIRONMENTAL CONTROL 201 LANE PARKWAY SHELBY COUNTY, NC 28146			
4. Phone ()				6. Phone ()			
7. Transporter #1 Company Name			8. US EPA ID Number		9. Transporter #1's Phone		
10. Transporter #2 Company Name			11. US EPA ID Number		12. Transporter #2's Phone		
13. Designated T/S/D Facility Name and Site Address 3651 Whiggin Rd Lenoir, NC 28645			14. US EPA ID Number		15. Facility's Phone 364-958-4490		
16. Waste Shipping Name and Description			17. Republic Services Approval # and Exp. Date		18. Containers		19. Total Quantity
a. NON-RELATED SOIL OR INJ SEDIMENTS			M152131687 12/16/2024		No. Type		20. Unit Wt/Vol
b.							
c.							
21. Additional Descriptions for Materials Listed Above							
22. Special Handling Instructions and Additional Information MANIFEST EVERYLOAD CUSTOMER 30260							
23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.							
Printed/Typed Name Tyler Wright Duke Energy				Signature Tyler Wright		Month Day Year 9 10 24	
24. Transporter #1: Acknowledgement of Receipt of Materials							
Printed/Typed Name D S Construction				Signature		Month Day Year 7 30 24	
25. Transporter #2: Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
26. Discrepancy Indication Space							
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)							
Printed/Typed Name Melanie B.				Signature MB		Month Day Year 9 10 24	

GENERATOR

TRANSPORTER

T/S/D FACILITY



NON-HAZARDOUS WASTE MANIFEST

1463500

Please print or type.

1. Generator's US EPA ID Number Generator's State ID Number Manifest Document Number 2. Page 1 of

3. Generator's Name and Mailing Address: DUKE ENERGY CAROLINA, 401 EAST RENOVA ROAD, GOSFORD, NC

5. Generating Location (if different): ENVIRONMENTAL CONTROL, 2071 AMT DRIVEWAY, SALEM, NC 28135

4. Phone () 6. Phone ()

7. Transporter #1 Company Name 8. US EPA ID Number 9. Transporter #1's Phone

10. Transporter #2 Company Name 11. US EPA ID Number 12. Transporter #2's Phone

13. Designated T/S/D Facility Name and Site Address: 688 WILSON RD, GREENSBORO, NC 27105

14. US EPA ID Number 15. Facility's Phone: 361-969-4450

16. Waste Shipping Name and Description

17. Republic Services Approval # and Exp. Date

a.	b.	c.	18. Containers		19. Total Quantity	20. Unit WU/Vol
			No.	Type		
WDR REPAIRED VEHICLES AND STRUCTURES						

21. Additional Descriptions for Materials Listed Above

22. Special Handling Instructions and Additional Information

23. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Printed/Typed Name: Tyler Whitt for Duke Energy Signature: [Signature] Month: 9 Day: 30 Year: 21

24. Transporter #1: Acknowledgement of Receipt of Materials

Printed/Typed Name: [Name] Signature: [Signature] Month: 9 Day: 30 Year: 21

25. Transporter #2: Acknowledgement of Receipt of Materials

Printed/Typed Name: [Name] Signature: [Signature] Month: [] Day: [] Year: []

26. Discrepancy Indication Space

27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)

Printed/Typed Name: [Name] Signature: [Signature] Month: 9 Day: 30 Year: 21

GENERATOR

TRANSPORTER

T/S/D FACILITY



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

*in weight
59,080*

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete Sections I, II and III

#3

01

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of 1	
d. Generator's Name and Location: DUKE ENERGY CAROLINAS, LLC 400 EAST RAMLET ROAD GREENVILLE, SC f. Phone: 704-273-1500			e. Generator's Mailing Address: CONTAMINANT CONTROL INC (CCI) 281 LANE PARKWAY SALISBURY, SC 28146 g. Phone: 704-273-1500		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity
31152131697	8/16/2024	MGP- RELATED SOILS AND SEDIMENTS	1	OT	Tons
		CUSTOMER# 333383			
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) <i>Tyler Wyatt for Duke Energy</i>			q. Signature <i>Tyler Wyatt</i>		r. Date <i>9/30/21</i>

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: <i>S+S Construction</i>		
b. Phone:		
c. Driver Name (Print) <i>Dennis A. Vickery</i>	d. Signature <i>[Signature]</i>	e. Date <i>9-30-21</i>

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Union County Regional MSW Landfill 868 Wildcat Road Enoree, SC 29335	b. Phone: 864-969-4460	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	b. Phone:	c. Responsible Agency Name and Address:	d. Phone:
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)	h. Signature	i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			

#2

If waste is asbestos waste, complete Sections I, II, III and IV
 If waste is NOT asbestos waste, complete Sections I, II and III

in weight
61,980

03

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of 1	
d. Generator's Name and Location: DUKE ENERGY CAROLINAS, LLC 400 EAST RAMLET ROAD GREENVILLE, SC f. Phone: 704-273-1500			e. Generator's Mailing Address: CONTAMINANT CONTROL INC (CCI) 281 LANE PARKWAY SALISBURY, SC 28146 g. Phone: 704-273-1500		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
31152131697	8/16/2024	MGP- RELATED SOILS AND SEDIMENTS			
CUSTOMER# 333383					
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) <i>Tyler Wyatt for Duke Energy</i>		q. Signature <i>Tyler Wyatt</i>		r. Date 9/30/21	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: <i>SJS Construction</i>		
b. Phone:		
c. Driver Name (Print) <i>David Port</i>	d. Signature <i>[Signature]</i>	e. Date 9-30-21

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Union County Regional MSW Landfill 868 Wildcat Road Enoree, SC 29335		b. Phone: 864-969-4460	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.				
e. Name of Authorized Agent (Print) <i>Melanie B</i>		f. Signature <i>[Signature]</i>		g. Date 9/30/21

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

*in weight
60120*

02

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of 1	
d. Generator's Name and Location: DUKE ENERGY CAROLINAS, LLC 400 EAST RAMLET ROAD GREENVILLE, SC f. Phone:704-273-1500			e. Generator's Mailing Address: CONTAMINANT CONTROL INC (CCI) 281 LANE PARKWAY SALISBURY, SC 28146 g. Phone:704-273-1500		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
31152131697	8/16/2024	MGP- RELATED SOILS AND SEDIMENTS			
CUSTOMER# 333383					
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) <i>Tyler Wyatt for Duke Energy</i>		q. Signature <i>Tyler Wyatt</i>		r. Date <i>9/30/21</i>	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:		
7		
b. Phone:		
c. Driver Name (Print) <i>Robert B Mason</i>	d. Signature <i>Robert B Mason</i>	e. Date <i>9/30/21</i>

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Union County Regional MSW Landfill 868 Wildcat Road Enoree, SC 29335		b. Phone: 864-969-4460	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.				
e. Name of Authorized Agent (Print) <i>Meldniep</i>		f. Signature <i>MB</i>		g. Date <i>9/30/21</i>

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			

SITE

**UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road Enoree, SC 29335**

CUSTOMER

333383
CONTAMINANT CONTROL INC (CCI)
ATTN: ACCOUNTS PAYABLE
SALISBURY, NC 28146

Contract:31152131697
Generator:Duke Energy Carolinas, LLC

SITE	TICKET #	CELL
01	1268843	
WEIGHMASTER		
DATE/TIME IN Melanie B.		
DATE/TIME OUT		
VEHICLE	10/13/21 10:26 am	CONTAINER 10/13/21 10:26 am
REFERENCE S&S CONSTRUCTION2		
REFERENCE 1463515		
BILL OF LADING		

SCALE IN GROSS WEIGHT 52,140 NET TONS 12.36
TARE OUT TARE WEIGHT 27,420 NET WEIGHT 24,720

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
12.36	tn	SW-CONT SOIL				
1.00		ENVIRONMENTAL FEE 1	\$42.00	\$519.12	\$0.00	\$519.12
1.00		FUEL RECOVERY FEE	\$18.00	\$18.00	\$0.00	\$18.00
			7.64%	\$39.66	\$0.00	\$39.66

Signature _____

515

Payment(s) _____

NET AMOUNT	\$576.78
TENDERED	
CHANGE	\$0.00
CHECK#	

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SIGNATURE _____

SITE
UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road Enoree, SC 29335

CUSTOMER
333383
CONTAMINANT CONTROL INC (CCI)
ATTN: ACCOUNTS PAYABLE
SALISBURY, NC 28146

Contract:31152131697
Generator:Duke Energy Carolinas, LLC

SITE	TICKET #	CELL
01	1268842	
WEIGHMASTER		
DATE/TIME IN	Melanie B.	DATE/TIME OUT
VEHICLE	10/13/21 10:24 am	CONTAINER 10/13/21 10:24 am
REFERENCE S&S CONSTRUCTION		
REFERENCE 1463514		
BILL OF LADING		

MANUAL IN GROSS WEIGHT	58,060	NET TONS	15.45	
TARE OUT TARE WEIGHT	27,160	NET WEIGHT	30,900	INBOUND INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
15.45	tn	SW-CONT SOIL				
		Origin:GREENVILLE CO SC 100%	\$42.00	\$648.90	\$0.00	\$648.90
1.00		ENVIRONMENTAL FEE 1	\$18.00	\$18.00	\$0.00	\$18.00
1.00		FUEL RECOVERY FEE	7.64%	\$49.58	\$0.00	\$49.58

Signature _____

514

Payment(s) _____

NET AMOUNT
\$716.48
TENDERED
CHANGE \$0.00
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SITE
UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road Enoree, SC 29335

CUSTOMER
 333383
 CONTAMINANT CONTROL INC (CCI)
 ATTN: ACCOUNTS PAYABLE
 SALISBURY, NC 28146

 Contract:31152131697
 Generator:Duke Energy Carolinas, LLC

SITE	TICKET #	CELL
01	1268692	
WEIGHMASTER		
Melanie B.		
DATE/TIME IN	DATE/TIME OUT	
10/12/21 11:44 am	10/12/21 11:44 am	
VEHICLE	CONTAINER	
S&S CONSTRUCTION		
REFERENCE	1463512	
BILL OF LADING		

SCALE IN GROSS WEIGHT	46,880	NET TONS	9.86		INBOUND
TARE OUT TARE WEIGHT	27,160	NET WEIGHT	19,720		INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
9.86	tn	SW-CONT SOIL Origin:GREENVILLE CO SC 100%	\$42.00	\$414.12	\$0.00	\$414.12
1.00		ENVIRONMENTAL FEE 1	\$18.00	\$18.00	\$0.00	\$18.00
1.00		FUEL RECOVERY FEE	7.64%	\$31.64	\$0.00	\$31.64
		Signature _____	Payment (s) _____			

512

NET AMOUNT
\$463.76
TENDERED
CHANGE \$0.00
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SITE UPSTATE REGIONAL MSW LANDFILL 864-527-5311
 868 Wildcat Road -Enoree, SC 29335

CUSTOMER 333383
 CONTAMINANT CONTROL INC (CCI)
 ATTN: ACCOUNTS PAYABLE
 SALISBURY, NC 28146

 Contract:31152131697
 Generator:Duke Energy Carolinas, LLC

SITE 01	TICKET #	1267533	CELL
WEIGHMASTER		Ceara R.	
DATE/TIME IN		10/1/21 4:24 pm	DATE/TIME OUT
VEHICLE		S&S CONSTRUCTION3	CONTAINER
REFERENCE		1463511	
BILL OF LADING			

SCALE IN	GROSS WEIGHT	66,240	NET TONS	19.45	INBOUND
TARE OUT	TARE WEIGHT	27,340	NET WEIGHT	38,900	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
19.45	tn	SW-CONT SOIL	\$42.00	\$816.90	\$0.00	\$816.90
1.00		ENVIRONMENTAL FEE 1	\$18.00	\$18.00	\$0.00	\$18.00
1.00		FUEL RECOVERY FEE	7.64%	\$62.41	\$0.00	\$62.41
Signature _____			Payment(s)			

511

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RS-F042UPR (04/19)

SIGNATURE _____

NET AMOUNT
TENDERED
\$0.00
CHANGE
CHECK#

SITE UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road -Enoree, SC 29335

CUSTOMER 933383
CONTAMINANT CONTROL INC (OCI)
ATTN: ACCOUNTS PAYABLE
SALISBURY, NC 28146

Contract:31152131697
Generator:Duke Energy Carolinas, LLC

SITE 01	TICKET #	1267534	CELL
WEIGHMASTER		Ceara R.	
DATE/TIME IN		10/1/21 4:26 pm	DATE/TIME OUT
VEHICLE		S&S CONSTRUCTION	CONTAINER
REFERENCE		1463510	
BILL OF LADING			

SCALE IN	GROSS WEIGHT	66,100	NET TONS	19.47
TARE OUT	TARE WEIGHT	27,160	NET WEIGHT	38,940

INBOUND
INVOICE

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	yd	Tracking QTY				
19.47	tn	SW-CONT SOIL				
1.00		ENVIRONMENTAL FEE 1	\$42.00	\$817.74	\$0.00	\$817.74
1.00		FUEL RECOVERY FEE	\$18.00	\$18.00	\$0.00	\$18.00
			7.64%	\$62.48	\$0.00	\$62.48

Origin:GREENVILLE CO SC 100%

Signature _____

Payment (s)

510

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RS-F042UPR (04/19)

SIGNATURE _____

NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road -Enoree, SC 29335

CUSTOMER 333383
CONTAMINANT CONTROL INC (CCI)
ATTN: ACCOUNTS PAYABLE
SALISBURY, NC 28146

Contract:31152131697
Generator:Duke Energy Carolinas, LLC

SITE 01	TICKET #	1267532	CELL
WEIGHMASTER		Ceara R.	
DATE/TIME IN		10/1/21 4:22 pm	DATE/TIME OUT
VEHICLE		S&S CONSTRUCTION 2	CONTAINER
REFERENCE		1463509	
BILL OF LADING			

SCALE IN	GROSS WEIGHT	68,660	NET TONS	20.62	INBOUND
MANUAL OUT	TARE WEIGHT	27,420	NET WEIGHT	41,240	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
20.62	tn	SW-CONT SOIL Origin:GREENVILLE CO SC 100%	\$42.00	\$866.04	\$0.00	\$866.04
1.00		ENVIRONMENTAL FEE 1	\$18.00	\$18.00	\$0.00	\$18.00
1.00		FUEL RECOVERY FEE	7.64%	\$66.17	\$0.00	\$66.17
		Signature _____	Payment(s)			

509

NET AMOUNT
TENDERED
\$0.00
CHANGE
CHECK#

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SIGNATURE _____

SITE
UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road Enoree, SC 29335

CUSTOMER
 333383
 CONTAMINANT CONTROL INC (CCI)
 ATTN: ACCOUNTS PAYABLE
 SALISBURY, NC 28146
 Contract:31152131697
 Generator:Duke Energy Carolinas, LLC

SITE	TICKET #	CELL
01	1267489	
WEIGHMASTER:		
DATE/TIME IN	Melanie B.	
DATE/TIME OUT		
VEHICLE	10/1/21 1:07 pm	CONTAINER 10/1/21 1:07 pm
S&S CONSTRUCTION		
REFERENCE	1463508	
BILL OF LADING		

SCALE IN GROSS WEIGHT 60,900 NET TONS 16.87 INBOUND
 TARE OUT TARE WEIGHT 27,160 NET WEIGHT 33,740 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
16.87	tn	SW-CONT SOIL				
1.00		ENVIRONMENTAL FEE 1	\$42.00	\$708.54	\$0.00	\$708.54
1.00		FUEL RECOVERY FEE	\$18.00	\$18.00	\$0.00	\$18.00
			7.64%	\$54.13	\$0.00	\$54.13

Signature _____

508

Payment (\$)

NET AMOUNT
\$780.67
TENDERED
CHANGE \$0.00
CHECK#

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SIGNATURE _____

SITE
UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road Enoree, SC 29335

CUSTOMER
 333383
 CONTAMINANT CONTROL INC (CCI)
 ATTN: ACCOUNTS PAYABLE
 SALISBURY, NC 28146

 Contract:31152131697
 Generator:Duke Energy Carolinas, LLC

SITE	TICKET #	CELL
01	1267488	
WEIGHMASTER		
DATE/TIME IN Melanie B.		
DATE/TIME OUT		
VEHICLE	10/1/21 1:05 pm	CONTAINER
S&S CONSTRUCTION		
REFERENCE	1463507	
BILL OF LADING		

SCALE IN GROSS WEIGHT	73,140	NET TONS	22.90	
TARE OUT TARE WEIGHT	27,340	NET WEIGHT	45,800	INBOUND INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
22.90	tn	SW-CONT SOIL Origin:GREENVILLE CO SC 100%	\$42.00	\$961.80	\$0.00	\$961.80
1.00		ENVIRONMENTAL FEE 1	\$18.00	\$18.00	\$0.00	\$18.00
1.00		FUEL RECOVERY FEE	7.64%	\$73.48	\$0.00	\$73.48

Signature _____

Payment (\$)

507

NET AMOUNT
\$1,053.28
TENDERED
CHANGE \$0.00
CHECK#

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SITE **UPSTATE REGIONAL MSW LANDFILL 864-527-5311**
868 Wildcat Road -Enoree, SC 29335

CUSTOMER **333303**
CONTAMINANT CONTROL INC (CCI)
ATTN: ACCOUNTS PAYABLE
SALISBURY, NC 28146

Contract:31152131697
 Generator:Duke Energy Carolinas, LLC

SITE01	TICKET #	1267487	CELL
WEIGHMASTER		Melanie B.	
DATE/TIME IN		10/1/21 1:00 pm	DATE/TIME OUT 1:00 pm
VEHICLE		S&S CONSTRUCTION2	CONTAINER
REFERENCE		1463506	
BILL OF LADING			

SCALE IN	GROSS WEIGHT	70,540	NET TONS	21.56	INBOUND
TARE OUT	TARE WEIGHT	27,420	NET WEIGHT	43,120	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
21.56	tn	SW-CONT SOIL Origin:GREENVILLE CO SC 100%	\$42.00	\$905.52	\$0.00	\$905.52
1.00		ENVIRONMENTAL FEE 1	\$18.00	\$18.00	\$0.00	\$18.00
1.00		FUEL RECOVERY FEE	7.64%	\$69.18	\$0.00	\$69.18
		Signature _____		Payment(s)		

506

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RS-F042UPR (04/19)

SIGNATURE _____

NET AMOUNT
TENDERED
\$0.00
CHANGE
CHECK#

SITE

UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road Enoree, SC 29335

CUSTOMER

333383
CONTAMINANT CONTROL INC (CCI)
ATTN: ACCOUNTS PAYABLE
SALISBURY, NC 28146

Contract:31152131697

Generator:Duke Energy Carolinas, LLC

SITE	TICKET #	CELL
01	1267412	
WEIGHMASTER		
DATE/TIME IN	Melanie B.	DATE/TIME OUT
VEHICLE	10/1/21 9:00 am	CONTAINER
		10/1/21 9:00 am
REFERENCE	S&S CONSTRUCTION3	
BILL OF LADING	1463505	

SCALE IN GROSS WEIGHT	64,000	NET TONS	18.33
TARE OUT TARE WEIGHT	27,340	NET WEIGHT	36,660

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
18.33	tn	SW-CONT SOIL				
		Origin:GREENVILLE CO SC 100%				
1.00		ENVIRONMENTAL FEE 1	\$42.00	\$769.86	\$0.00	\$769.86
1.00		FUEL RECOVERY FEE	\$18.00	\$18.00	\$0.00	\$18.00
			7.64%	\$58.82	\$0.00	\$58.82

Signature

Payment(s)

505

NET AMOUNT

\$846.68

TENDERED

CHANGE
\$0.00

CHECK#

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RS-F042UPR (04/19)

SIGNATURE _____

SITE UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road -Enoree, SC 29335

CUSTOMER 333383
CONTAMINANT CONTROL INC (CCI)
ATTN: ACCOUNTS PAYABLE
SALISBURY, NC 28146

Contract:31152131697
Generator:Duke Energy Carolinas, LLC

SITE 01	TICKET # 1267411	CELL
WEIGHMASTER Melanie B.		
DATE/TIME IN 10/1/21 8:55 am	DATE/TIME OUT 10/1/21 8:55 am	
VEHICLE S&S CONSTRUCTION2	CONTAINER	
REFERENCE 1463504		
BILL OF LADING		

SCALE IN GROSS WEIGHT	67,480	NET TONS	20.03	INBOUND
TARE OUT TARE WEIGHT	27,420	NET WEIGHT	40,060	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
20.03	tn	SW-CONT SOIL Origin:GREENVILLE CO SC 100%	\$42.00	\$841.26	\$0.00	\$841.26
1.00		ENVIRONMENTAL FEE 1	\$18.00	\$18.00	\$0.00	\$18.00
1.00		FUEL RECOVERY FEE	7.64%	\$64.27	\$0.00	\$64.27
		Signature _____	Payment (s) _____			

504

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RS-F042UPR (04/19)

SIGNATURE _____

NET AMOUNT
TENDERED
\$0.00
CHANGE
CHECK#

SITE
UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road Enoree, SC 29335

CUSTOMER
 333383
 CONTAMINANT CONTROL INC (CCI)
 ATTN: ACCOUNTS PAYABLE
 SALISBURY, NC 28146
 Contract:31152131697
 Generator:Duke Energy Carolinas, LLC

SITE	TICKET #	CELL
01	1267410	
WEIGHMASTER		
DATE/TIME IN	Melanie B.	DATE/TIME OUT
VEHICLE	10/1/21 8:53 am	CONTAINER
REFERENCE	S&S CONSTRUCTION	
BILL OF LADING	146353	

SCALE IN	GROSS WEIGHT	62,740	NET TONS	17.79	INBOUND
TARE OUT	TARE WEIGHT	27,160	NET WEIGHT	35,580	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
17.79	tn	SW-CONT SOIL				
1.00		ENVIRONMENTAL FEE 1	\$42.00	\$747.18	\$0.00	\$747.18
1.00		FUEL RECOVERY FEE	\$18.00	\$18.00	\$0.00	\$18.00
			7.64%	\$57.08	\$0.00	\$57.08

Signature _____

Payment(s) _____

503

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RS-F042UPR (04/19)

SIGNATURE _____

NET AMOUNT
\$822.26
TENDERED
CHANGE \$0.00
CHECK#

SITE UPSTATE REGIONAL MSW LANDFILL 864-527-5311
 868 Wildcat Road -Enoree, SC 29335

CUSTOMER 333383
 CONTAMINANT CONTROL INC (CCI)
 ATTN: ACCOUNTS PAYABLE
 SALISBURY, NC 28146

 Contract:31152131697
 Generator:Duke Energy Carolinas, LLC

SITE01	TICKET #	1267312	CELL
WEIGHMASTER		Melanie B.	
DATE/TIME IN	9/30/21	1:48 pm	DATE/TIME OUT
VEHICLE	S&S CONSTRUCTION	CONTAINER	
REFERENCE	1463502		
BILL OF LADING			

SCALE IN	GROSS WEIGHT	64,620	NET TONS	18.73	INBOUND
TARE OUT	TARE WEIGHT	27,160	NET WEIGHT	37,460	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	yd	TRACKING QTY				
18.73	tn	SW-CONT SOIL Origin:GREENVILLE CO SC 100%	\$42.00	\$786.66	\$0.00	\$786.66
1.00		ENVIRONMENTAL FEE 1	\$18.00	\$18.00	\$0.00	\$18.00
1.00		FUEL RECOVERY FEE	7.64%	\$60.10	\$0.00	\$60.10
Signature _____			Payment (s)			

502

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RS-F042UPR (04/19)

SIGNATURE _____

NET AMOUNT
TENDERED
\$0.00
CHANGE
CHECK#

SITE UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road -Enoree, SC 29335

CUSTOMER 553383
CONTAMINANT CONTROL INC (CCI)
ATTN: ACCOUNTS PAYABLE
SALISBURY, NC 28146

Contract:31152131697
Generator:Duke Energy Carolinas, LLC

SITE01	TICKET #	1267313	CELL
WEIGHMASTER		Melanie B.	
DATE/TIME IN		9/30/21 1:51 pm	DATE/TIME OUT
VEHICLE		S&S CONSTRUCTION2	CONTAINER
REFERENCE		1463501	
BILL OF LADING			

SCALE IN GROSS WEIGHT	62,120	NET TONS	17.35	INBOUND
TARE OUT TARE WEIGHT	27,420	NET WEIGHT	34,700	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	TD	Tracking QTY				
17.35	tn	SW-CONT SOIL Origin:GREENVILLE CO SC 100%	\$42.00	\$728.70	\$0.00	\$728.70
1.00		ENVIRONMENTAL FEE 1	\$18.00	\$18.00	\$0.00	\$18.00
1.00		FUEL RECOVERY FEE	7.64%	\$55.67	\$0.00	\$55.67
Signature _____			Payment (s)			

501

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RS-F042UPR (04/19)

SIGNATURE _____

NET AMOUNT
TENDERED
\$0.00
CHANGE
CHECK#

SITE
UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road Enoree, SC 29335

CUSTOMER
 333383
 CONTAMINANT CONTROL INC (CCI)
 ATTN: ACCOUNTS PAYABLE
 SALISBURY, NC 28146
 Contract:31152131697
 Generator:Duke Energy Carolinas, LLC

SITE	TICKET #	CELL
01	1267314	
WEIGHMASTER		
Melanie B.		
DATE/TIME IN	DATE/TIME OUT	
9/30/21 1:54 pm	9/30/21 1:54 pm	
VEHICLE	CONTAINER	
S&S CONSTRUCTION3		
REFERENCE	143500	
BILL OF LADING		

SCALE IN GROSS WEIGHT	62,300	NET TONS	17.48	
TARE OUT TARE WEIGHT	27,340	NET WEIGHT	34,960	INBOUND INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
17.48	tn	SW-CONT SOIL				
		Origin:GREENVILLE CO SC 100%				
1.00		ENVIRONMENTAL FEE 1	\$42.00	\$734.16	\$0.00	\$734.16
1.00		FUEL RECOVERY FEE	\$18.00	\$18.00	\$0.00	\$18.00
:			7.64%	\$56.09	\$0.00	\$56.09

Signature _____

Payment(s)

500

NET AMOUNT
\$808.25
TENDERED
CHANGE \$0.00
CHECK#

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SIGNATURE _____

SITE UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road -Enoree, SC 29335

CUSTOMER 333383
CONTAMINANT CONTROL INC (CCI)
ATTN: ACCOUNTS PAYABLE
SALISBURY, NC 28146

Contract:31152131697
Generator:Duke Energy Carolinas, LLC

SITE#1	TICKET #	1267243	CELL
WEIGHMASTER		Melanie B.	
DATE/TIME IN		9/30/21 9:32 am	DATE/TIME OUT
		9/30/21 9:55 am	
VEHICLE	S&S CONSTRUCTION3	CONTAINER	
REFERENCE			
BILL OF LADING			

MANUAL IN	GROSS WEIGHT	59,680	NET TONS	16.17
SCALE OUT	TARE WEIGHT	27,340	NET WEIGHT	32,340

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
16.17	tn	SW-CONT SOIL Origin:GREENVILLE CO SC 100%	\$42.00	\$679.14	\$0.00	\$679.14
1.00		ENVIRONMENTAL FEE 1	\$18.00	\$18.00	\$0.00	\$18.00
1.00		FUEL RECOVERY FEE	7.64%	\$51.89	\$0.00	\$51.89

Signature _____

Payment(s)

#3

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RS-F042UPR (04/19)

SIGNATURE _____

NET AMOUNT
TENDERED
\$0.00
CHANGE
CHECK#

UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road - Enoree, SC 29335

333383
CONTAMINANT CONTROL INC (CCI)

ATTN: ACCOUNTS PAYABLE

SALISBURY, NC 28146

Contact: 3152131697

Generator: Duke Energy Carolinas, LLC

SCALE IN GROSS WEIGHT 61,980

SCALE OUT TARE WEIGHT 27,420

NET TONS 17.28

NET WEIGHT 34,560

01

1267242

Melanie B.

9/30/21 9:29 am

9/30/21

9:53 am

SSCONSTRUCTION2

INBOUND INVOICE

YD	Tracking QTY	EN	SM-CONT SOIL	ENVIRONMENTAL FEE 1	FUEL RECOVERY FEE	\$42.00	\$18.00	\$55.45	\$0.00	\$725.76	\$0.00	\$18.00	\$55.45
01.00		17.08		1.00	1.00								

Origin: GREENVILLE CO SC 100%

Signature

#2

Payment(s)

\$799.21

\$0.00

SITE UPSTATE REGIONAL MSW LANDFILL 864-527-5311
868 Wildcat Road -Enoree, SC 29335

CUSTOMER 333983
CONTAMINANT CONTROL INC (CCI)
ATTN: ACCOUNTS PAYABLE
SALISBURY, NC 28146

Contract:31152131697
Generator:Duke Energy Carolinas, LLC

SITE01	TICKET #	1267241	CELL
WEIGHMASTER		Melanie B.	
DATE/TIME IN		9/30/21 9:24 am	DATE/TIME OUT
		9/30/21 9:49 am	
VEHICLE	S&S CONSTRUCTION	CONTAINER	
REFERENCE			
BILL OF LADING			

SCALE IN	GROSS WEIGHT	60,120	NET TONS	16.48	INBOUND
SCALE OUT	TARE WEIGHT	27,160	NET WEIGHT	32,960	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	TD	TRACKING QTY				
16.48	tn	SW-CONT SOIL Origin:GREENVILLE CO SC 100%	\$42.00	\$692.16	\$0.00	\$692.16
1.00		ENVIRONMENTAL FEE 1	\$18.00	\$18.00	\$0.00	\$18.00
1.00		FUEL RECOVERY FEE	7.64%	\$52.88	\$0.00	\$52.88

Signature _____

Payment (s) _____

#1

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RS-F042UPR (04/19)

SIGNATURE _____

NET AMOUNT
TENDERED
\$0.00
CHANGE
CHECK#