TENNESSEE
VALLEY
AUTHORITY

Tennessee Valley Authority, Sequoyah Nuclear Plant, P.O. Box 2000, Soddy Daisy, TN 37384

May 14, 2021

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Subject: **Sequoyah Nuclear Plant, Gravel Lot Restoration Project, Construction General Permit, Notice of Intent**

Attached is the Notice of Intent for coverage under the Construction General Permit for the gravel lot restoration project at Sequoyah Nuclear Plant.

Respectfully,

Travis R. Markum
Environmental Scientist

TENNESSEE VALLEY AUTHORITY

Tennessee Valley Authority, Sequoyah Nuclear Plant, P.O. Box 2000, Soddy Daisy, TN 37384

May 14, 2021

Mr. Vojin Janjić
Division of Water Resources
Tennessee Department of Environment
and Conservation
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243

Dear Mr. Janjić:

TENNESSEE VALLEY AUTHORITY (TVA) – SEQUOYAH NUCLEAR PLANT (SQN) – GRAVEL LOT RESTORATION PROJECT – CONSTRUCTION GENERAL PERMIT NOTICE OF INTENT (NOI)

Enclosed is an updated NOI, storm water pollution prevention plan, and check for $250 to cover 4.6 acreage of disturbance within the project boundary to restore an onsite gravel parking lot with vegetation.

If you have any questions or need additional information to support this request, please contact Travis Markum at (423) 843-6714 or by email at trmarkum@tva.gov.

Sincerely,

Thomas B. Marshall
Vice President
Sequoyah Nuclear Plant

Enclosures

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)

Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities (TNR100000)

Site or Project Name: Sequoyah Nuclear Plant Gravel Lot Restoration			***NPDES Tracking Number: TNR***
Street Address or Location: 2440 Igou Ferry Road Soddy Daisy, TN			Construction Start Date: May 2021
			Estimated End Date: June 2021
Site Description: Gravel parking lot			Latitude (dd.dddd): 35.231088
			Longitude (-dd.dddd): -85.094131
County(ies): Hamilton	MS4 (if applicable):		Acres Disturbed: 4.60
Check box if a SWPPP is attached : ☑	Check box if a site location map is attached: ☑		Total Acres: 4.60
Check the appropriate box(s) if there are streams and/or wetlands on or adjacent to the construction site:			Streams ☐ Wetlands ☐
Has a jurisdictional determination been made by the USACE or EPA identifying waters of the United States?: Yes ☐ No ☐ Note: if yes, attach the jurisdictional determination			
If an Aquatic Resource Alteration Permit (ARAP) has been obtained for this site, what is the permit number? NR(S)			
Receiving waters: Chickamauga Lake			

Site Owner/Developer (Primary Permittee): (Provide person, company, or entity that has operational or design control over construction plans and specifications): Tennessee Valley Authority			
For corporate entities only, provide correct Tennessee Secretary of State (SOS) Control Number: (an incorrect SOS control number may delay NOI processing)			
Site Owner or Developer Contact Name: (signs the certification below) Napoleon Dawson		Title or Position: Site Maintenance Manager	
Mailing Address: 2440 Igou Ferry Road		City: Soddy Daisy	State: TN Zip: 37379
Phone: (423) 843-8546	Fax: ( )	E-mail: nbdawson@tva.gov	

Optional Contact: Travis Markum		Title or Position: Environmental Scientist (Compliance)	
Mailing Address: 2440 Igou Ferry Road		City: Soddy Daisy	State: TN Zip: 37379
Phone: (423) 843-6714	Fax: ( )	E-mail: trmarkum@tva.gov	

Owner/Developer(s) Certification: (must be signed by president, vice-president or equivalent, or ranking elected official) (Primary Permittee)

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Owner/Developer Name (print/type): Thomas B. Marshall	Signature:	Date: 05/18/2024
Owner/Developer Name (print/type):	Signature:	Date:

Contractor Certification: (must be signed by president, vice-president or equivalent, or ranking elected official) (Secondary Permittee)

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations, and for failure to comply with these permit requirements. As specified in Tennessee Code Annotated Section 39-16- 702(a)(4), this declaration is made under penalty of perjury.

Contractor name, address, and SOS control number (if applicable):	Signature:	Date:

OFFICIAL STATE USE ONLY

Received Date:	Reviewer:	Field Office:	Permit Tracking Number: TNR	Exceptional TN Water:
Fee(s):	T & E Aquatic Flora/Fauna:	SOS Corporate Status:	Waters with Unavailable Parameters:	Notice of Coverage Date:

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

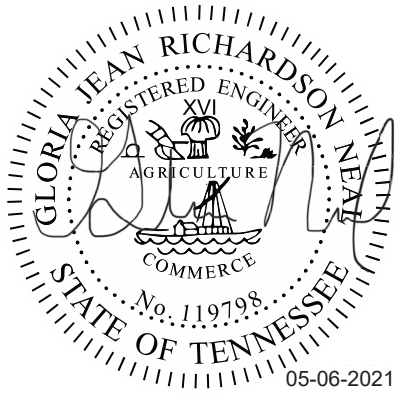
Sequoyah Nuclear Plant Gravel Lot Restoration
Soddy Daisy, TN

Prepared for:
Tennessee Valley Authority
2440 Igou Ferry Road
Soddy Daisy, TN 37379

Original Date: May 2021
Barge Design Solutions Project No. 36152-09

Barge Design Solutions

1110 Market St., Suite 200
Chattanooga, Tennessee 37402
(423)756-3025, (423)756-8477 FAX



05-06-2021

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KEY CONTACTS

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Sequoyah Nuclear Plant Gravel Lot Restoration
Soddy Daisy, TN 37379

Owner/Developer:

Tennessee Valley Authority
2440 Igou Gap Road
Soddy Daisy, TN 37379
Napoleon Dawson
(423) 843-8546
Email: nbdawson@tva.gov

Engineer:

Barge Design Solutions
1110 Market St., Suite 200
Chattanooga, Tennessee 37402
Gloria Neal, PE
(423) 805-9740
(423) 756-8477 FAX
Email: gloria.neal@bargedesign.com

Contractor: TBD

Introduction

This Construction Site Storm Water Pollution Prevention Plan (SWPPP) was prepared in accordance with Tennessee Department of Environment and Conservation (TDEC) General Permit No. TNR10-0000, Storm water Discharges from Construction Activities, the current edition of the *Tennessee Erosion and Sediment Control Handbook*, and good engineering practice. The plan describes and ensures implementation of practices, which will be used to reduce pollutants in storm water discharges associated with construction activity.

The purpose of this plan is to ensure the erosion of soil and the discharge of other pollutants into waters of the State are minimized. Storm water management and sediment control measures will be utilized in the construction to minimize off-site sediment migration beyond the limits of disturbance. The construction activity shall be carried out to prevent discharges of storm water that cause a condition in which visible solids, bottom deposits or turbidity impairs the usefulness of waters of the state for any uses of that water body by Rule 1200-4-4. The following are the overall goals of this plan:

- Where necessary, structural features will be installed to remove sediment from runoff prior to the runoff physically leaving the disturbed area.

- There shall be no distinctly visible floating scum, oil or other matter contained in the storm water discharge.

- The storm water discharge must result in no materials in concentrations sufficient to be hazardous or otherwise detrimental to humans, livestock, wildlife, plant life, or fish and aquatic life in the receiving stream.

- The goal is that storm water discharge should not cause an objectionable color contrast in the receiving stream. However, the physical properties of the soils on this site are such that, despite best efforts there may be temporary discoloration of the receiving stream.

- Spills will be contained on-site and not allowed to enter the storm drainage system or any receiving stream.

- The amount of material that is eroding from the site under this plan should be reduced to the maximum extent possible.

The contractor shall not commence construction prior to receipt of the Notice of Coverage (NOC) from the TDEC.

General Information

This Storm Water Pollution Plan (SWPPP) is developed in accordance with the Tennessee General NPDES Permit (TNR100000) for Storm Water Discharges Associated with Construction Activity (TNCGP) and is prepared using sound engineering practices. Barge Design Solutions personnel involved with the development of this plan have completed the *Design of Vegetative and Structural Measures for Erosion Prevention and Sediment Control* course available from the State of Tennessee.

As instructed by Part III.F of the TNCGP, this plan and all attachments are hereby submitted to the local Environmental Field Office (EFO), along with the complete, correctly signed Notice of Intent (NOI) (Appendix 1). Construction will not be initiated prior to 30 days from the date of submittal of this document, or prior to receipt of a NOC from the TDEC.

Owner: Tennessee Valley Authority
2440 Igou Ferry Road
Soddy Daisy, TN 37379
Contact: Napoleon Dawson

"I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury."		
Representative of owner/ developer and title: (Print or type) Thomas B. Marshall Site Vice President	Signature: (must be signed by President, V.P. or equivalent or ranking elected official)	Date: 05/18/2021

Primary Contractor:

"I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations, and for failure to comply with these permit requirements. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury."		
Company name of primary contractor: (Print or type)	Signature: (must be signed by President, V.P. or equivalent)	Date:

The individual responsible for installation, maintenance, and inspections of erosion and sediment control measures will be the Contractor. Contractor is still to be determined. The individual will be required to have completed the *Fundamentals of Erosion Prevention and Sediment Control* course offered by the State of Tennessee.

Current versions of this SWPPP, the NOI, and the NOC will be kept on the site for the duration of the project. These items will be available for the use of all operators and site personnel involved with erosion and sediment controls and are available to TDEC personnel visiting the site. A notice will be posted near the construction entrance containing a copy of the NOC with the tracking number assigned by the EFO, the name and telephone number of a contact person for the development, and a brief description of the project.

Any new contractor on the project that has any responsibility to install, inspect, or maintain erosion or sediment control measures will sign the contractor's certification on the original NOI and will submit it to the local EFO. Any correspondence with TDEC or any EFO will reference the tracking number assigned by TDEC to the project. The contractor will submit a Notice of Termination NOT (Appendix 2) after the complete installation and successful establishment of the final stabilization activities at the site. During construction and until the site is stabilized, the contractor will submit quarterly "Construction Storm Water Reports".

It is the intention and goal of the TNCGP and this SWPPP that any discharge from the property described in this document have no objectionable color contrast to the water body that receives it. This construction activity will be carried out in such a manner as will prevent any discharge that would cause a condition in which visible solids, bottom deposits, or turbidity impairs the usefulness of the waters on the property or downstream of the property for fish and aquatic life, livestock watering and wildlife, recreation, irrigation, navigation, or industrial or domestic water supply.

This plan may be amended as necessary. When the plans are revised, the contractor will implement the changes to erosion protection and sediment controls within 48 hours after the need for modification is identified.

Responsibilities of Operators

Tennessee Valley Authority is the owner identified for this plan. Upon selection, the contractor who will have day-to-day operational control of the construction site will be added to this plan.

The following will be the responsibilities of the construction contractor:

1. Ensure the SWPPP construction activities meet the minimum requirements of this plan and the Tennessee General NPDES Permit No. TNR10-0000 and to identify the parties responsible for implementation of control measures identified in this plan and shown and described in the engineering drawings and specifications.

2. Ensure the SWPPP indicates areas of the projects where they have operational control over day-to-day activities.

The construction contractor will have responsibility for implementation and installation of the erosion control measures described in this plan and shown on the drawings and in the project specifications.

1.0 SITE DESCRIPTION

1.1 Existing Site Conditions

The project is located on the Sequoyah Nuclear Plant site in Soddy Daisy, TN. The project will restore an existing gravel parking lot to a grassed area. The latitude and longitude of the site is 35.231088° North and -85.094131° West, respectively. Appendix 4 contains a map that depicts the regional location of the site.

1.2 Project Description

OVERVIEW

The scope of work includes removal of existing perimeter fencing, removal of gravel and matting located below the gravel layer, placing topsoil and seeding, and slope matting to prevent future perimeter erosion. Erosion control measures such as silt sock, silt fencing, outlet protection, seeding, erosion control matting (or sodding) will be implemented.

INITIAL CLEARING

Initial clearing activities will include installation of erosion control measures and removal of the existing gravel and geotextile matting. Site activities will disturb approximately 4.6 acres. The runoff for this site will go to one outfall at the southwest corner of the site. The outfall will drain the entire 4.6 acres of disturbance. The runoff coefficient for this site prior to construction activities is 98 and the runoff coefficient post construction activities will be 84. Pre-construction impervious areas on the project site are 4.6 acres and post-construction impervious areas are 0.0 acres.

Outfall 1 will be controlled by rock filter outfall protection, silt fence installed on contour and outlet protection placed as needed.

LOT RESTORATION

The final details of the site construction are as follows. It will include seeding and mulching the eastern portion of the lot and then placing seeding with erosion control matting on the western portion to prevent rilling from concentrated runoff. The western portion may be sodded in place of erosion control matting.

The proposed drainage patterns will approximately follow existing drainage patterns from source to discharge. All areas of disturbance within the project limits shall be seeded.

1.3 Nature of Construction Activity and Sequence

During the construction period, best management practices (BMP) will be utilized in accordance with the requirements of the “Tennessee Erosion and Sediment Control Handbook”. These BMP’s will include a combination of vegetative and structural practices. Innovative/alternate erosion prevention and sediment controls may be used if the control has been documented to be superior or equivalent to conventional controls. An existing gravel drive will serve as the construction entrance and exit for the project.

Sequencing of Construction:

Construction activities shall be sequenced and phased to limit areas of disturbance in as much a manner as practical regardless of acreage and size of disturbance.

1. Prior to any land disturbance, the perimeter control measures, and construction exits will be installed.
2. Pre-construction vegetation shall not be disturbed more than 10 days prior to any excavating activities.
3. Next, the exiting gravel and geotextile matting will be removed.
4. Once cleared of the existing gravel minor grading will occur to smooth the area for seeding. After grading is complete, the site will be stabilized by seeding & mulching, placing erosion control matting (or sodding).

5. Sediment shall be removed from any sediment control devices when the design capacity has been reduced by 50%.
6. If sediment enters waters of the State, the Tennessee Department of Environment and Conservation, Division of Water Pollution Control (TDEC-WPC) will be notified immediately and consulted with concerning removal of said sediment.
7. Exposed litter, debris, chemicals, etc., shall be properly stored or disposed of prior to any anticipated storm events.
8. Removal of standing muddy water from the site shall be accomplished with a pump/filter bag combination or said water will be diverted into existing sediment control devices via a pump.
9. Areas that are expected to be idle for more than 14 days will be mulched and seeded.
10. Steep slopes (greater than or equal to 35%) shall be stabilized no later than 7 days after construction activity on these slopes has temporarily or permanently ceased.

1.4 Soils and Quality of Discharge

Based upon Web Soil Survey provided by the USDA, the site consists of Colbert-Urban land complex (See Appendix 6 for specific breakdown). The site is classified in the hydrologic soil group “D”. The soils in the “D” group are described as a very slow infiltration rate when thoroughly wet. These soils have a very slow rate of water transmission.

1.5 Receiving Water

Discharges from the site will travel by open channel and downstream culverts to Chickamauga Lake, which is listed as fully supporting on the TDEC Division of Water Resources web map. Since the receiving water is listed as fully supporting, erosion control measures have been designed per the 2-year, 24-hour design intensity for the area.

1.6 Site Maps

Engineering drawings necessary for the construction of the project have been prepared and are incorporated into this plan are included in Appendix 5. The drawings and specifications specifically relating to grading, drainage and erosion control are as follows:

Drawing Number	Title
C2.31	Initial Erosion & Sediment Control Plan
C2.51	Final Erosion & Sediment Control Plan
C7.31	Erosion & Sediment Control Details

The drawings detailed above can be found in Appendix 5. In addition to the details needed for construction, these drawings include, where appropriate, the following information:

- Existing and proposed drainage patterns and slopes
- Areas of soil disturbance
- Location of structural and non-structural erosion controls
- Location of areas where stabilization practices will occur
- Existing surface waters including wetlands, sinkholes and locations where storm water is discharged to a surface water (if applicable)
- Identification of outfall points for storm water discharge from the site and locations of outfall points intended for coverage under the general permit

These drawings and specifications, prepared by a landscape architect or engineer licensed to practice in Tennessee with TNESPC Level II certification, will be issued to the construction

contractor and will be kept at the project site at all times and by reference become a part of this plan. Drawings with the most current date will supersede all others.

Materials used for erosion and sediment control will conform to specifications provided in the following subsections and those shown on the drawings and in the technical specifications.

2.0 CONSTRUCTION STORM WATER RUNOFF CONTROLS

This section contains a description of the appropriate erosion control measures that will be implemented at the project site. The specific erosion control measures for each site are detailed on the engineering drawings and specifications.

2.1 Erosion and Sediment Controls General Criteria and Requirements

This section contains the general criteria and requirements upon which this plan and the design of controls in the engineering drawings and specifications were based.

A. The construction phase erosion and sediment controls are designed to retain sediment on site.

B. All control measures have been selected and will be installed and maintained in accordance with manufacturer's specifications and good engineering practice. If periodic inspections or other information indicates a control has been used inappropriately, or incorrectly, the control will be replaced or modified for site situations.

C. If sediment escapes the site, off-site accumulations of sediment that have not reached a stream will be removed at a frequency sufficient to minimize offsite impacts. Remediation/restoration of a stream will not take place without consulting the TDEC Division of Water Pollution Control first.

D. At a minimum, sediment shall be removed from sediment traps (if applicable), silt fences, and other sediment controls when the design capacity of the controls has been reduced by 50%.

E. Litter, construction debris, and construction chemicals exposed to storm water shall be picked up prior to anticipated storm events (e. g., forecasted by local weather reports) or otherwise prevented from becoming a pollutant source for storm water discharges. After use and final stabilization, silt fences will be removed.

F. No offsite material storage areas (including overburden and stockpiles of soil) will be used for this project.

G. Pre-construction vegetative ground cover shall not be destroyed, removed or disturbed more than 10 calendar days prior to grading or earth moving unless the area is seeded and/or mulched or other temporary cover is installed.

H. Construction will be sequenced to minimize the exposure time of graded or denuded areas.

I. Areas of any completed phase or project must be stabilized within 14 days after another phase or project has been initiated.

J. Erosion and sediment control measures must be in place and functional before earth

moving operations begin, and if possible, prior to clearing. Temporary measures may be removed at the beginning of each workday but must be replaced at the end of each workday.

K. The following records will be kept on site: the dates when major grading activities occur; the dates when construction activities temporarily or permanently cease on a portion of the site; and the dates when stabilization measures are initiated.

2.2 Stabilization Practices

This section contains a description of the interim and permanent stabilization practices, including a schedule for the various projects included under this plan.

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 seven days after the construction activity in that portion of the site has temporarily or permanently ceased except in the following two situations:

A. Where initiation of stabilization measures by the seventh day is precluded by snow cover or frozen ground conditions stabilization measures shall be initiated as soon as practicable; or

B. Where construction activity on a portion of the site is temporarily ceased, and earth-moving activities will be resumed within 7 days, temporary stabilization measures do not have to be initiated on that part of the site.

2.2.1 Permanent Vegetative Cover

Temporary or permanent soil stabilization shall be accomplished within 7 days after final grading or other earthwork.

Establishing permanent vegetative cover will be accomplished by seeding, sodding or landscaping all disturbed areas.

2.2.2 Temporary Vegetative Cover

Establishing temporary vegetative cover will be accomplished by seeding, sodding or mulching and/or placing fabric mats on all disturbed areas.

2.2.3 Construction Scheduling

The following is a preliminary schedule for construction. This schedule will be updated once the construction contractor has been identified and the contractor submits the official construction schedule:

Week 1	*Installation of initial erosion control measures.*
Weeks 1 & 2	*Remove existing gravel and matting.*
Week 3	*Seed & mulch, install erosion control matting (or sod).*
Weeks 4 - 8	*Monitor and maintain erosion control. Water seeding as needed.*
Weeks 9 & 10	*Remove perimeter erosion control features once site has established 75% vegetated cover.*

2.3 Structural Practices

This section describes the structural features that will be installed to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site to the degree attainable.

Engineering drawings and specifications show the locations and describe and provide details for the structural measures for this project. Structural controls for this project consist of riprap check dams, inlet and outlet protection, a temporary sediment trap, and two final condition infiltration beds.

The general design criterion that was used in the design of structural measures is as follows:

A. Erosion and sediment control measures were designed according to the size and slope of disturbed or drainage areas to detain runoff and trap sediment. The controls were designed to control the rainfall and runoff from a 2-year, 24-hour storm with a value of 3.67 inches in 24 hours. The construction contractor is required to maintain a rain gauge on the site and keep records of daily precipitation totals.

B. Muddy water to be pumped from excavation and work areas must be held in settling basins or filtered prior to its discharge into surface waters. Such water must be discharged through a pipe or lined or well-grassed channel or other equivalent means so that the discharge does not cause erosion and sedimentation.

2.4 Other Items Needing Control

No solid materials, including building materials, will be discharged to waters of the United States under the projects covered by this plan.

Offsite tracking of sediments and the generation of dust shall be minimized. The contractor shall inspect trucks and other equipment leaving the site and remove mud and other debris from the vehicles or equipment prior to leaving the project site such that mud is not tracked on offsite roads, parking areas and other surfaces. If such tracking does inadvertently take place, the contractor will take immediate action to clean and remove the tracked materials. Dust during earth moving operations or movement of equipment across the site or on any project site area not yet paved will be minimized by watering. The contractor will maintain access to a watering truck or other water source for this purpose.

Excess topsoil or unsuitable material will be hauled to an on-site stockpile. Base stone, asphalt, and concrete will be placed as it is delivered. Electrical equipment such as poles, wire, as well as incidental forms for pole foundations, etc. will be stored on-site prior to installation but this equipment presents no risk for pollution. Material for the buildings will include such items as block, building stone, sand, rebar, lumber, mortar mix and other miscellaneous building materials. Mortar mix will be kept in unopened bags until used and stacks of unused mortar will be covered with plastic. All construction debris and waste materials will be removed from the site in an expeditious manner (daily if practicable) and disposed of in the appropriate waste containers at the site or in the appropriate landfill.

Storm water sources from areas outside the site do not present hazards to the site.

3.0 MAINTENANCE

Inspections of all erosion control measures shall take place as set forth in Section 4.

Sediment shall be removed from sediment traps, silt fences if inspections reveal that the design capacity of the controls has been reduced by 50%. For example, if sediment has been deposited to ½ the height of a silt fence, the sediment must be removed, or the fence replaced.

Based on the results of the inspections, any inadequate control measure or control measures in disrepair shall be replaced, modified, and/ or repaired such that they function as originally designed and installed before the next rain event if possible, but in no case more than seven days after the need is identified. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable.

4.0 INSPECTIONS

Inspections will be performed in accordance with Section 3.5.8.2 of the Tennessee General NPDES Permit (TNR100000). **The inspector will be required to be a qualified inspector. A qualified inspector is one who holds a TNEPSC Level One certification with no exceptions or equivalency.** Qualified personnel shall be identified by the construction contractor to inspect disturbed areas of the construction site, areas used for storage of materials that are exposed to precipitation that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least twice every 7 calendar days at least 72 hours apart, before anticipated storm events (or series of storm events such as intermittent showers over one or more days) and within 24 hours of the end of a storm that is 0.5 inch or greater of total precipitation within a 24-hour period. In periods of prolonged rainfall, daily checking and repairing is necessary.

Inspections will cover, at a minimum, all disturbed areas that have not undergone final stabilization, sediment control structures, and outfall points. The inspections will be conducted with the purpose of determining whether erosion prevention and sediment control measures are effective in preventing impacts to receiving waters. Based on the results of the inspection, any inadequate control measures or control measures in disrepair shall be replaced or modified, or repaired as necessary, before the next rain event if possible, but in no case more than 7 days after the need is identified. If the controls are installed and maintained correctly but are found to provide an inadequate level of protection, field revisions will be implemented by the contractor. Necessary revisions to the plans based upon the inspection shall be made within 7 days. The inspector will maintain a rain gauge and a daily log of readings. The inspector will certify on a weekly basis (on the form found in Appendix 3) that the inspection described above has been performed and whether or not all of the erosion and sediment control measures are installed and in working order. Inspection documentation will be maintained on site and made available upon request.

Inspections and associated necessary maintenance and repairs done 60 hours before a rain event constitute compliance with “before anticipated storm events” and inspections and repairs on Friday meet the requirement for rain events over the weekend. When the project site has been finally or temporarily stabilized, prior to the submission of a Notice of Termination of coverage, or runoff is unlikely due to winter conditions (snow cover, ice, or frozen ground), such inspections have to be conducted once per month.

Each inspection shall be documented using the form found in Appendix 3. Copies shall be submitted to the owner on a monthly basis not later than the 10th day of the following month.

4.1 Pollutants

Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure they are operating correctly. Discharge locations or points shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Where discharge

locations are in accessible, nearby downstream locations shall be inspected if possible. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.

4.2 Plan Revisions

This SWPPP shall be amended as follows:

A. Whenever there is a change in the scope of the project, which would be expected to have a significant effect on the discharge of pollutants to the waters of the state and which has not otherwise been addressed in the SWPPP. If applicable, the SWPPP must be modified or updated whenever there is a change in chemical treatment methods, including the use of different treatment chemical, different dosage or application rate, or different area of application;

B. Whenever inspections or investigations by site operators, local, State or Federal officials indicate the plan is proving ineffective in eliminating or significantly minimizing pollutants or is otherwise not achieving the general objectives of controlling pollutants in storm water discharges associated with construction activities. A copy of all correspondence to this effect must be retained in the SWPPP;

C. To identify a new contractor and /or subcontractor that will implement a measure of the SWPPP; and

D. To include measures necessary to prevent a negative impact to legally protected state or federally listed or proposed threatened or endangered fauna or flora.

E. A TMDL is developed for the receiving waters for a pollutant of concern (siltation and/or habitat alteration).

When amendments are made to the plan, a heavy black bar will be placed to the right of the revised text to indicate a change from the previously issued document.

If the inspection shows that the planned measures are not effectively preventing pollution, changes to sediment and erosion controls to minimize the discharge at sediment from the site will be implemented as soon as practicable. This plan and/or the engineering drawings and specifications shall be revised or amended no later than 14 calendar days following the inspection. Such modifications shall provide for timely implementation of any changes to the plan in no case later than 7 calendar days following the inspection.

4.3 Reports

A specific individual who meets one of the following criteria and is experienced with the installation and maintenance of erosion control measures and familiar with the provisions of this plan and the engineering drawings and specifications shall be designated to be responsible for erosion and sediment controls on the site:

A. A licensed professional engineer or landscape architect;

B. A Certified Professional in Erosion and Sediment Control (CPESC); or

C. A person that successfully completed the “Level I Design Principles for Erosion Prevention and Sediment Control for Construction Sites” course.

The inspection report to be used in summarizing the scope of an inspection is provided in Appendix 3. Each inspection performed shall be made and retained as part of the storm water plan for at least three years from the date that the site is finally stabilized. At a minimum the inspection report shall contain name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with Section 3. Such reports shall identify any incidents of non-compliance and corrective actions taken. Where a report does not identify any incidents of non-compliance, the report shall contain evidence that the facility is in compliance with the storm water plan. The report shall be signed by the individual responsible for erosion and sediment controls and the construction contractor's Project Superintendent or his appointed representative.

4.4 Right of Entry

The permittee shall allow authorized representatives of the U.S. EPA, the Director or an authorized representative of the Director of the Division of Water Pollution Control upon presentation of credentials and other documents as may be required by law:

A. To enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;

B. To have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and

C. To inspect any facilities or equipment (including monitoring and control equipment)

5.0 SPILLS & NON-STORM WATER DISCHARGES

All fueling of equipment and vehicles on site will be conducted near the construction entrance/staging area. Any spillage will be removed immediately. Contaminated soils will be placed on heavy plastic and covered or placed into approved containers to prevent contact with storm water. All fuel tanks will be in the containment area. Oils, other vehicle fluids, paints, and solvent will be stored in the construction trailer. Any spill in excess of two gallons will be reported to the contractor's project manager.

If a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period, the contractor will immediately notify the permittee who shall then do the following: notify the National Response Center (NRC) (800-424-8802) and the Tennessee Emergency Management Agency (TEMA) (emergencies: 800-262-3300; non-emergencies: 800-262-3400); as well as the local Environmental Field Office. Also, the contractor will prepare a revision of this document to identify measures to prevent the reoccurrence of such releases.

Concrete trucks will wash out at the designated area. Each contractor is responsible to provide litter control for trash generated by his crew. A dumpster for garbage will be located near the construction trailer and is limited to garbage and paper trash only. Paint cans, oil cans, used oil and filters will be contained and disposed of by the contractor by taking them to the County Hazardous Waste Disposal Center.

Non-storm water discharges that may be included in one or more of the projects in this plan include the following:

A. Dewatering of work areas of collected storm water and ground water;

B. Waters used to wash vehicles (of dust and soil, not process materials such as oils, asphalt or concrete) where detergents are not used and detention and/or filtering is provided before the water leaves site;

C. Water used to control dust in accordance with the General Permit No. TNR10-000;

D. Potable water sources including waterline flushing's from which chlorine has been removed to the maximum extent practicable;

E. Routine external building wash-down that does not use detergents or other chemicals;

F. Uncontaminated groundwater or spring water; and

G. Foundation or footing drains where flows are not contaminated with pollutants (process maters such as solvents, heavy metals, etc.).

6.0 RECORD KEEPING AND REPORTING

Records of checks and repairs will be maintained on site. The following records shall be maintained on or near the site:

1. The dates when major grading activities occur.
2. Dates when construction activities temporarily or permanently cease on a portion of a site.
3. Dates when stabilization measures are initiated.
4. Inspection Reports
5. Rainfall Records

All required records noted in the TNCGP shall be retained by the permittee for a period of at least three (3) years from the date the Notice of Termination (NOT) is filed.

A construction site assessment of the SWPPP shall be performed in accordance with part 3.1.2 of the Tennessee Construction General Permit within one month of construction commencement.

Records and information resulting from the monitoring activities and this plan (including any revisions or amendments) will be retained for a minimum of 3 years from the submittal date of the Notice of Termination, or longer if requested by TDEC Division of Water Pollution Control.

The discharge of hazardous substances or oil in the storm water discharges from any of the project sites shall be prevented or minimized in accordance with Section 1546 of the specifications for the project, this plan and the Work Plan for Demolition. Coverage under this permit does not relieve the permittee or the contractor of the reporting requirements of 40 CFR 117 and 40 CFR 302. Where a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 CFR 117 or 40 CFR 302, occurs during a 24 hour period:

A. The construction contractor will immediately report releases to the County.

B. The construction contractor is required to notify the National Response Center (NRC) (800-424-8802) and the Tennessee Emergency Management Agency (emergencies 800-262-3300, non-emergencies 800-262-3400) in accordance with the requirements of 40 CFR 117 and 40 CFR 302 as soon as he or she has knowledge of the discharge.

C. The construction contractor shall submit within 14 calendar days of knowledge of the release a written description of the release (including the type and estimate of the amount

of material released), the date that such release occurred, the circumstances leading to the release, what actions were taken to mitigate effects of the release, and steps to be taken to minimize the chance of future occurrences, to the appropriate Environmental Assistance Center at the following address

TN Department of Environment and Conservation
Division of Water Pollution Control
1301 Riverfront Parkway
Suite #206
Chattanooga, TN 37402

D. This plan will be modified within 14 calendar days of knowledge of the release to provide a description of the release, the circumstances leading to the release, and the date of the release. In addition, the plan will be reviewed to identify measures to prevent reoccurrence of such releases and to respond to releases, and the plan will be modified where appropriate.

7.0 COMPLIANCE WITH PERMIT PROVISIONS

All construction activities shall be carried out in conformance with this plan, the engineering drawings and specifications and in accordance with the provisions of the TDEC General Permits, and individual Aquatic Resource Alteration Permits (ARAP). An ARAP is required for the irrigation pump stations and is in the process of being prepared and submitted for approval.

The operator shall take all reasonable steps to minimize any adverse impact to the waters of Tennessee, including such accelerated or additional monitoring as necessary to determine the nature and impact of the discharge. It shall not be a defense for the operator in an enforcement action that it would have been necessary to halt or reduce the construction activity in order to maintain compliance.

The construction contractor shall post a notice near the main entrance of each project site with the following information:

A. A copy of the Notice of Coverage (NOC) with the NPDES permit number for the project;

B. The name and telephone number of a local contract person representing the construction contractor that is responsible for implementing the provisions of this plan; and

C. The location of the SWPPP if the site is inactive or does not have an on-site location to store the plan.

8.0 SUMMARY AND TERMINATION OF COVERAGE

This plan recognizes the importance of sediment migration and control. Stormwater runoff and sedimentation control will be accomplished through the following:

- Minimizing the size of the disturbed areas,
- Filtering the runoff from the disturbed areas through silt fence, temporary sediment traps and check bales,
- Enhanced inspection and reporting tools, and
- Stabilizing all disturbed areas

Storm water management and erosion control structures will be maintained during construction activities and for the entire project duration. The structures are specifically designed to minimize

the amount of soil, which may migrate from the site. It is concluded that the plan, as developed, revised, and amended will be an effective means of controlling erosion.

Operators wishing to terminate coverage under the General Permit TNR10-0000 must submit a Notice of Termination (NOT) in accordance with Part VIII of the General Permit. The NOT form can be found in Appendix 2. The construction contractor must submit the NOT after completion of their construction activities and final stabilization of their project.

APPENDIX 1
NOTICE OF INTENT (NOI)

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)

Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities (TNR100000)

Site or Project Name: Sequoyah Nuclear Plant Gravel Lot Restoration			***NPDES Tracking Number: TNR***
Street Address or Location: 2440 Igou Ferry Road Soddy Daisy, TN			Construction Start Date: May 2021
			Estimated End Date: June 2021
Site Description: Gravel parking lot			Latitude (dd.dddd): 35.231088
			Longitude (-dd.dddd): -85.094131
County(ies): Hamilton	MS4 (if applicable):		Acres Disturbed: 4.60
Check box if a SWPPP is attached : ☑	Check box if a site location map is attached: ☑		Total Acres: 4.60
Check the appropriate box(s) if there are streams and/or wetlands on or adjacent to the construction site:			Streams ☐ Wetlands ☐
Has a jurisdictional determination been made by the USACE or EPA identifying waters of the United States?: Yes ☐ No ☐ Note: if yes, attach the jurisdictional determination			
If an Aquatic Resource Alteration Permit (ARAP) has been obtained for this site, what is the permit number? NR(S)			
Receiving waters: Chickamauga Lake			

Site Owner/Developer (Primary Permittee): (Provide person, company, or entity that has operational or design control over construction plans and specifications): Tennessee Valley Authority			
For corporate entities only, provide correct Tennessee Secretary of State (SOS) Control Number: (an incorrect SOS control number may delay NOI processing)			
Site Owner or Developer Contact Name: (signs the certification below) Napoleon Dawson		Title or Position: Site Maintenance Manager	
Mailing Address: 2440 Igou Ferry Road		City: Soddy Daisy	State: TN Zip: 37379
Phone: (423) 843-8546	Fax: ( )	E-mail: nbdawson@tva.gov	

Optional Contact: Travis Markum		Title or Position: Environmental Scientist (Compliance)	
Mailing Address: 2440 Igou Ferry Road		City: Soddy Daisy	State: TN Zip: 37379
Phone: (423) 843-6714	Fax: ( )	E-mail: trmarkum@tva.gov	

Owner/Developer(s) Certification: (must be signed by president, vice-president or equivalent, or ranking elected official) (Primary Permittee)

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Owner/Developer Name (print/type): Thomas B. Marshall	Signature:	Date: 05/18/2024
Owner/Developer Name (print/type):	Signature:	Date:

Contractor Certification: (must be signed by president, vice-president or equivalent, or ranking elected official) (Secondary Permittee)

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations, and for failure to comply with these permit requirements. As specified in Tennessee Code Annotated Section 39-16- 702(a)(4), this declaration is made under penalty of perjury.

Contractor name, address, and SOS control number (if applicable):	Signature:	Date:

OFFICIAL STATE USE ONLY

Received Date:	Reviewer:	Field Office:	Permit Tracking Number: TNR	Exceptional TN Water:
Fee(s):	T & E Aquatic Flora/Fauna:	SOS Corporate Status:	Waters with Unavailable Parameters:	Notice of Coverage Date:

CONSTRUCTION GENERAL PERMIT - NOTICE OF INTENT (NOI) - INSTRUCTIONS

A completed NOI must be submitted to obtain coverage under the CGP. **Requesting coverage under this permit means that an applicant has obtained and examined a copy of this permit, and thereby acknowledges applicant's claim of ability to be in compliance with permit terms and conditions.** CGP coverage is required for stormwater (SW) discharge(s) from construction activities including clearing, grading, filling and excavating (including borrow pits) of one or more acres of land. This form should be submitted at least 30 days prior to the commencement of land disturbing activities, or no later than 48 hours prior to when a new operator assumes operational control over site specifications or commences work at the site.

The application fee must accompany the NOI and is based on total acreage to be disturbed by an entire project, including any associated construction support activities (e.g., equipment staging yards, material storage areas, excavated material disposal areas, borrow or waste sites, etc.). A separate annual maintenance fee is also required for activities that exceed 1 year under CGP coverage. See TN Rules, Chapter 0400-40-11-.02(b)(12).

Acres Disturbed	= or > 150 acres	= or > 50 < 150 acres	= or > 20 < 50 acres	= or > 5 < 20 acres	= or > 1 < 5 acres	Subsequent coverage
Fee	$10,000	$6,000	$3,000	$1,000	$250	$100

Who must submit the NOI form? All site operators must submit an NOI form. "Operator" for the purpose of this permit and in the context of SW associated with construction activity means any person associated with a construction project who meets either or both of the following two criteria: (1) The person has operational or design control over construction plans and specifications, including the ability to make modifications to those plans and specifications. This person is typically the owner or developer of the project or a portion of the project (e.g., subsequent builder), or the person that is the current land owner of the construction site, and is considered the primary permittee; or (2) The person has day-to-day operational control of those activities at a project which are necessary to ensure compliance with a SWPPP for the site or other permit conditions. This person is typically a contractor or a commercial builder who is hired by the primary permittee, and is considered a secondary permittee.

Owners, developers and all contractors that meet the definition of the operator in subsection 2.2 of the permit shall apply for permit coverage on the same NOI, insofar as possible. After permit coverage has been granted to the initial site-wide primary permittee, any subsequent NOI submittals must include the site's previously assigned permit tracking number and the project name. The comprehensive site-specific SWPPP shall be prepared in accordance with the requirements of part 3 of the permit and must be submitted with the NOI unless the NOI being submitted is to add a subsequent permittee to an existing coverage. **Artificial entities (e.g., corporations or partnerships) must submit the correct Tennessee Secretary of State, Division of Business Services, control number. General partnerships. For general partnerships, the NOI must be signed by each general partner in the general partnership.**

The NOI will be considered incomplete without a correct control number, and the division reserves the right to deny coverage to artificial entities that are not properly registered and in good standing with the Tennessee Secretary of State (i.e., listed with an entity status of "active"). The division further reserves the right to issue permit coverage in the correct legal name of the individual or entity seeking coverage and to name each general partner of a general partnership in addition to the general partnership.

Complete the form: Type or print clearly. Answer each item or enter "NA," for not applicable. If you need additional space, attach a separate piece of paper to the NOI form. **The NOI will be considered incomplete without a permit fee and comprehensive site-specific SWPPP (if applicable).**

Describe and locate the project: Use the legal or official name of the construction site. If a construction site lacks street name or route number, give the most accurate information available to describe the location (reference to adjacent highways, roads and structures; eg., intersection of state highways 70 and 100). Latitude and longitude (in decimal degrees) can be found at numerous other web sites. Attach a copy of a map, showing location of site, with boundaries at least one mile outside the site boundaries. Provide estimated starting date of clearing activities and completion date of the project, and an estimate of the number of acres of the site on which soil will be disturbed, including borrow areas, fill areas, stockpiles and the total acres. For linear projects, give location at each end of the construction area.

Name of the receiving waters: Trace the route of stormwater runoff from the site and determine the name of the water course(s) into which the runoff drains. Note that the water course may or may not be located on the construction site. If the first water body receiving construction site runoff is unnamed ("unnamed tributary"), determine the name of the waterbody that the unnamed tributary enters.

An ARAP may be required: **If your work will disturb or cause alterations of a stream or wetland, you must obtain an appropriate Aquatic Resource Alteration Permit (ARAP).** If wetlands are located on-site and may be impacted, attach the wetland delineation report. If you have a question about the ARAP program, contact your local Field Office (EFO).

Submitting the form and obtaining more information: Note that this form must be signed by the company President, Vice-President, or a ranking elected official in the case of a municipality, for details see subpart 2.5. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed NOI form (keep a copy for your records) to the appropriate EFO for the county(ies) where the construction activity is located, addressed to **Attention: Stormwater NOI Processing**.

Notice of Coverage: The division will review NOIs for completeness and accuracy and issue an NOC to site-wide primary operators, authorizing SW discharge from the construction site as of the effective date of the NOC. New subsequent operators will not receive an NOC, but are considered covered under the permit when their permit record is published on TDEC's dataviewer as "active" and with an effective date. TDEC Permit Dataviewer can be found at: http://environment-online.tn.gov:8080/pls/enf_reports/f?p=9034:34001:0

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	1301 Riverfront Pkwy, Suite 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601

APPENDIX 2
NOTICE OF TERMINATION FORM (NOT)

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-TDEC (8332)

Notice of Termination (NOT) for General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)

This form is required to be submitted when requesting termination of coverage from the CGP. The purpose of this form is to notify the TDEC that either all stormwater discharges associated with construction activity from the portion of the identified facility where you, as an operator, have ceased or have been eliminated; or you are no longer an operator at the construction site. Submission of this form shall in no way relieve the permittee of permit obligations required prior to submission of this form. Please submit this form to the local DWR Environmental Field Office (EFO) address (see table below). For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC).

Type or print clearly, using ink.

Site or Project Name:	**NPDES Tracking Number: TNR**
Street Address or Location:	County(ies):

Name of Permittee Requesting Termination of Coverage:			
Permittee Contact Name:	Title or Position:		
Mailing Address:	City:	State:	Zip:
Phone:	E-mail:		

Check the reason(s) for termination of permit coverage:

☐	Stormwater discharge associated with construction activity is no longer occurring and the permitted area has a uniform 70% permanent vegetative cover OR has equivalent measures such as rip rap or geotextiles, in areas not covered with impervious surfaces.
☐	You are no longer the operator at the construction site (i.e., termination of site-wide, primary or secondary permittee coverage).

Certification and Signature: (must be signed by president, vice-president or equivalent ranking elected official)

I certify under penalty of law that either: (a) all stormwater discharges associated with construction activity from the portion of the identified facility where I was an operator have ceased or have been eliminated or (b) I am no longer an operator at the construction site. I understand that by submitting this notice of termination, I am no longer authorized to discharge stormwater associated with construction activity under this general permit, and that discharging pollutants in stormwater associated with construction activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that the submittal of this notice of termination does not release an operator from liability for any violations of this permit or the Clean Water Act.

For the purposes of this certification, elimination of stormwater discharges associated with construction activity means that all stormwater discharges associated with construction activities from the identified site that are authorized by a NPDES general permit have been eliminated from the portion of the construction site where the operator had control. Specifically, this means that all disturbed soils at the portion of the construction site where the operator had control have been finally stabilized, the temporary erosion and sediment control measures have been removed, and/or subsequent operators have obtained permit coverage for the site or portions of the site where the operator had control.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Permittee name (print or type):	Signature:	Date:

EFO	**Street Address**	**Zip Code**	**EFO**	**Street Address**	**Zip Code**
Memphis	8383 Wolf Lake Drive, Bartlett, TN	38133	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305	Chattanooga	1301 Riverfront Parkway, Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601

APPENDIX 3
INSPECTION CERTIFICATION FORM

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)

Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)

General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)

Construction Stormwater Inspection Certification (Twice-Weekly Inspections)

Site or Project Name: Sequoyah Nuclear Plant Gravel Lot Restoration		**NPDES Tracking Number: TNR**
Primary Permittee Name:		Date of Inspection:
Current approximate disturbed acreage:	Has rainfall been checked/documented daily? ☐ Yes ☐ No	Name of Inspector:
Current weather conditions:		Inspector's Training Certification Number:

Please check the box if the following items are on-site:

☐ Notice of Coverage (NOC) ☐ Stormwater Pollution Prevention Plan (SWPPP) ☐ Twice-weekly inspection documentation

☐ Site contact information ☐ Rain Gage ☐ Off-site Reference Rain Gage Location: _____

Best Management Practices (BMPs):

Are the Erosion Prevention and Sediment Controls (EPSCs) functioning correctly: If "No," describe below in Comment Section			
1.	Are all applicable EPSCs installed and maintained per the SWPPP?	☐ Yes	☐ No
2.	Are EPSCs functioning correctly at all disturbed areas/material storage areas per section 4.1.5?	☐ Yes	☐ No
3.	Are EPSCs functioning correctly at outfall/discharge points such that there is no objectionable color contrast in the receiving stream, and no other water quality impacts per section 5.3.2?	☐ Yes	☐ No
4.	Are EPSCs functioning correctly at ingress/egress points such that there is no evidence of track out?	☐ Yes	☐ No
5.	If applicable, have discharges from dewatering activities been managed by appropriate controls per section 4.1.4? If "No," describe below the measures to be implemented to address deficiencies.	☐ Yes	☐ No
6.	If construction activity at any location has temporarily/permanently ceased, was the area stabilized within 14 days per section 3.5.3.2? If "No," describe below each location and measures taken to stabilize the area(s)	☐ Yes	☐ No
7.	Have pollution prevention measures been installed, implemented, and maintained to minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters per section 4.1.5? If "No," describe below the measures to be implemented to address deficiencies.	☐ Yes	☐ No
8.	If a concrete washout facility is located on site, is it clearly identified on the project and maintained? If "No," describe below the measures to be implemented to address deficiencies. ☐ N/A	☐ Yes	☐ No
9.	Have all previous deficiencies been addressed? If "No," describe remaining deficiencies in Comment section. ☐ Check if deficiencies/corrective measures have been reported on a previous form.	☐ Yes	☐ No

Comment Section. If the answer is "No" for any of the above, please describe the problem and corrective actions to be taken. Otherwise, describe any pertinent observations:

Certification and Signature (must be signed by the certified inspector and the permittee per Sections 3.5.8.2 (g) and 7.7.2 of the CGP)

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Inspector Name and Title:	Signature:	Date:
Primary Permittee Name and Title:	Signature:	Date:

Construction Stormwater Inspection Certification Form (Twice-Weekly Inspections)

Purpose of this form/ Instructions

An inspection, as described in section 3.5.8.2. of the General Permit for Stormwater Discharges from Construction Activities ("Permit"), shall be performed at least twice every calendar week and documented on this form. Inspections shall be performed at least 72 hours apart. Where sites or portion(s) of construction sites have been temporarily stabilized, or runoff is unlikely due to winter conditions (e.g., site covered with snow or ice), such inspection only has to be conducted once per month until thawing results in runoff or construction activity resumes.

As described in section 3.5.8.1 of the Permit, inspectors performing the required twice weekly inspections must have an active certification by completing the "Fundamentals of Erosion Prevention and Sediment Control Level I" course (http://www.tnepsc.org/). Twice weekly inspections can also be performed by: a licensed professional engineer or landscape architect; a Certified Professional in Erosion and Sediment Control (CPESC) or a person who has successfully completed the "Level II Design Principles for Erosion Prevention and Sediment Control for Construction Sites" course. A copy of the certification or training record for inspector certification should be kept on site.

Qualified personnel, (provided by the permittee or cooperatively by multiple permittees) shall inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural control measures, locations where vehicles enter or exit the site, and each outfall.

Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the site's drainage system. Erosion prevention and sediment control measures shall be observed to ensure that they are operating correctly.

Outfall points (where discharges leave the site and/or enter waters of the state) shall be inspected to determine whether erosion prevention and sediment control measures are effective in preventing significant impacts to receiving waters. Where discharge locations are inaccessible, nearby downstream locations shall be inspected. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.

Based on the results of the inspection, any inadequate control measures or control measures in disrepair shall be replaced or modified, or repaired as necessary, before the next rain event if possible, but in no case more than 7 days after the need is identified.

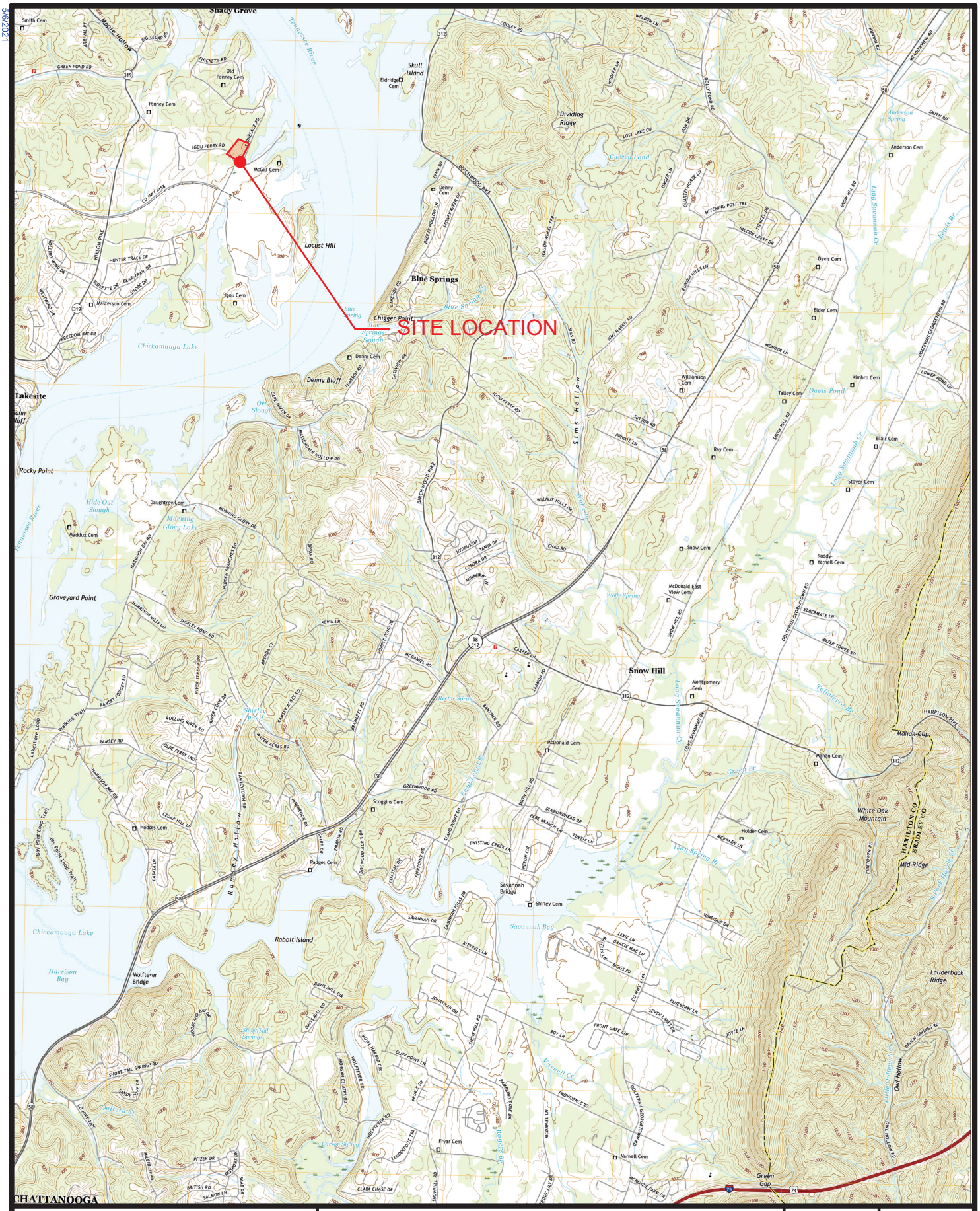
Based on the results of the inspection, the site description identified in the SWPPP in accordance with section 3.5.1 of the Permit and pollution prevention measures identified in the SWPPP in accordance with section 3.5.2 of the Permit, shall be revised as appropriate, but in no case later than 7 days following the inspection. Such modifications shall provide for timely implementation of any changes to the SWPPP, but in no case later than 14 days following the inspection.

All inspections shall be documented on this Construction Stormwater Inspection Certification form. Alternative inspection forms may be used as long as the form contents and the inspection certification language are, at a minimum, equivalent to the division's form and the permittee has obtained a written approval from the division to use the alternative form. Inspection documentation will be maintained on site and made available to the division upon request. Inspection reports must be submitted to the division within 10 days of the request.

Trained certified inspectors shall complete inspection documentation to the best of their ability. Falsifying inspection records or other documentation or failure to complete inspection documentation shall result in a violation of this permit and any other applicable acts or rules.

APPENDIX 4
REGIONAL MAP

F:\36\36152\36152091\04_CAD\CIVIL\Sequoyah SWPPP\WORKING\USGS_Map.dgn
5/6/2021



USGS TOPO MAP

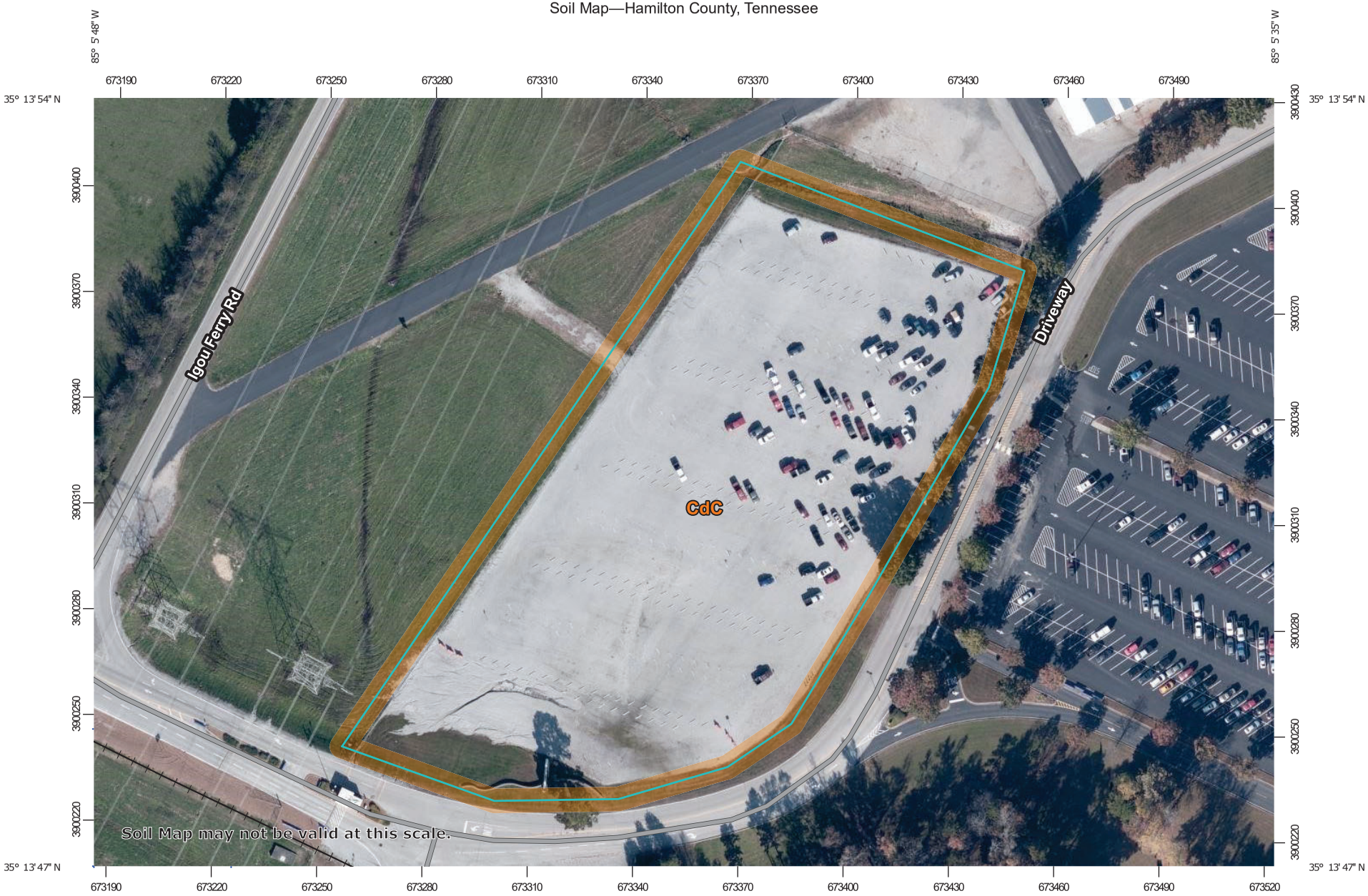
TENNESSEE VALLEY AUTHORITY
SEQUOYAH NUCLEAR PLANT GRAVEL LOT RESTORATION
SODDY DAISY, TN

DRAWN BY: GJRN
CHECKED BY: BCN
DRAWING NO.: EXHIBIT-A
PROJECT NO.: 36152-09
DATE: 5-6-2021

BARGE DESIGN SOLUTIONS
1110 Market Street // Suite 200 // Chattanooga, Tennessee 37402
PHONE (423) 756-3025 // FAX (423) 756-8477

APPENDIX 5
ENGINEERING DRAWINGS

APPENDIX 6
SOIL MAP



Map Scale: 1:1,540 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 20 40 80 120

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hamilton County, Tennessee
Survey Area Data: Version 17, May 29, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 29, 2018—Nov 16, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CdC	Colbert-Urban land complex, 2 to 12 percent slopes	4.6	100.0%
Totals for Area of Interest		**4.6**	**100.0%**

LEGEND

- EXISTING CONTOURS
- PROJECT LIMITS
- SF — SILT FENCE SEE DETAIL 4, SHEET C7.31
- CE — CONSTRUCTION EXIT SEE DETAIL 2, SHEET C7.31
- FR — FILTER RING SEE DETAIL 6, SHEET C7.31

KEYED NOTES:

1. DEMO FENCE
2. LIMITS OF DISTURBANCE
3. RAIN GAUGE
4. REMOVE EXISTING GRAVEL AND MATTING ONCE PERIMETER EROSION CONTROL MEASURES IN PLACE

NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES AROUND THE EXTERIOR OF THE SITE SHALL BE INSTALLED PRIOR TO ANY ON-SITE GRADING ACTIVITIES DURING THE CONSTRUCTION PERIOD. SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE INSPECTED PRIOR TO THE START OF GRADING ACTIVITIES. UPON PROPER STABILIZATION OF THE DISTURBED AREAS THAT DRAIN TO THE SEDIMENT BASIN, CLEAN OUT AND DISPOSE OF ALL SEDIMENT DEBRIS, AND COMPLETE CONSTRUCTION OF THE DETENTION BASIN FACILITIES.
2. PERMANENT OR TEMPORARY SOIL STABILIZATION MUST BE APPLIED TO ALL DENUDED AREAS WITHIN 7 DAYS OF REACHING FINAL GRADE OR TO OTHER DENUDED AREAS WHICH ARE TO REMAIN DORMANT FOR LONGER THAN 14 DAYS. ALL TOPSOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SILT FENCE SEDIMENT TRAPPING.
3. ALL DISTURBED AREAS NOT TO BE PAVED SHALL BE TOP SOILED, FERTILIZED, SEEDED AND MULCHED. AN ACCEPTABLE GROWTH OF GRASS IS REQUIRED IN ALL AREAS DESIGNATED FOR SEEDING. AN ACCEPTABLE GROWTH IS CONSIDERED 100 SEEDLINGS PER SQUARE FOOT OF THE PERMANENT SPECIES OF GRASS OF THE SEED MIXTURE. IF THE PLANTING IS LESS THAN 50% SUCCESSFUL, REWORK THE GROUND, RE-FERTILIZE, RE-SEED AND RE-MULCH. ALL SEEDING MUST MEET THE APPROVAL OF SWMD AND THE A/E.
4. E&S RESPONSIBLE PARTY: PROJECT CONTRACTOR ON BEHALF OF TVA.
5. TVA AND, THEREFORE, THE CONTRACTOR IS REQUIRED TO PREVENT ALL RUNOFF AND SEDIMENT FROM DAMAGING ADJACENT PROPERTIES, AND ANY DITCHES, DRAINAGEWAYS, STREAMS OR OTHER WATER CONVEYANCES.
6. ON AND OFF-SITE DUST AND MUD TO BE CONTROLLED AT ALL TIMES. THIS MAY REQUIRE PERIODIC ON-SITE WATERING OR OTHER METHODS FOR DUST CONTROL AND PERIODIC WASHING OF THE PUBLIC STREETS AS MAY BE NECESSARY.
7. SEDIMENT CONTROL DEVICES ARE TO BE PERIODICALLY CLEANED WHEN ACCUMULATION OF SILT IS WITHIN HALF THE HEIGHT OF THE CONTROL DEVICE. THE DEVICES SHALL BE CHECKED WEEKLY AND WITHIN 24 HOURS AFTER EVERY RAINFALL OF 0.5" OR GREATER. IN THE EVENT OF CONTINUOUS RAINFALL, EROSION CONTROLS SHALL BE CHECKED DAILY. ANY FAILURE OF A CONTROL DEVICE SHALL BE CORRECTED WITHIN 3 DAYS. THE CONTRACTOR WILL KEEP A LOG OF ALL INSPECTIONS AND REPAIR EFFORTS DURING THE CONSTRUCTION PERIOD. COST FOR THIS TREATMENT SHALL BE INCLUDED IN THE PRICE BID FOR EROSION CONTROL. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EROSION CONTROL STRUCTURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTORS OWN EXPENSE.
8. INSPECTION OF STORMWATER CONTROL MEASURES ARE TO BE COMPLETED BY TDEC LEVEL 1 CERTIFIED PERSON AT A MINIMUM OF TWICE WEEKLY.
9. THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION AND WATER CONTROL MEASURES (BMP'S) (SUCH AS BERMS, SEDIMENT BASINS, SLOPE DRAINS, HAY BALES AND SILT FENCES) AS DIRECTED BY TVA. THESE TEMPORARY MEASURES SHALL BE COORDINATED WITH THE PERMANENT EROSION CONTROL FEATURES TO ASSURE ECONOMICAL, EFFECTIVE, AND CONTINUOUS EROSION CONTROL THROUGHOUT THE PROJECT.
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11. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC.
12. INSPECTIONS OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DONE BEFORE ANTICIPATED STORM EVENTS (OR SERIES OF STORM EVENTS SUCH AS INTERMITTENT SHOWERS OVER ONE OR MORE DAYS) AND WITHIN 24 HOURS AFTER THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
13. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO SURROUNDING WATERS. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE FOR OFF-SITE ROADWAY SEDIMENT TRACKING.
14. UPON CONCLUSION OF THE INSPECTIONS, EROSION AND SEDIMENT CONTROL MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONDITION IS IDENTIFIED.
15. THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE UTILIZED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT POLLUTION OF WATERS OF THE STATE/U.S. INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.
16. ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED AND THE PERMIT OR PERMITS ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE APPROPRIATE AGENCY SHALL DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

N

40' 20' 0' 40' 80'

SCALE: 1 INCH = 40 FEET

BARGE DESIGN SOLUTIONS
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GLORIA JEAN RICHARDSON — REGISTERED ENGINEER — No. 119798 — STATE OF TENNESSEE — 5-5-2021

INITIAL EROSION & SEDIMENT CONTROL PLAN

SEQUOYAH NUCLEAR PLANT GRAVEL LOT RESTORATION
TENNESSEE VALLEY AUTHORITY
SODDY DAISY, TN

REV.	DR.	CHK.	DATE	DESCRIPTION
0	GJRN	BCN	05-05-2021	ISSUED FOR PERMITTING

REVISION INFORMATION

C2.31

FILE NO. 36152-09

5/6/2021
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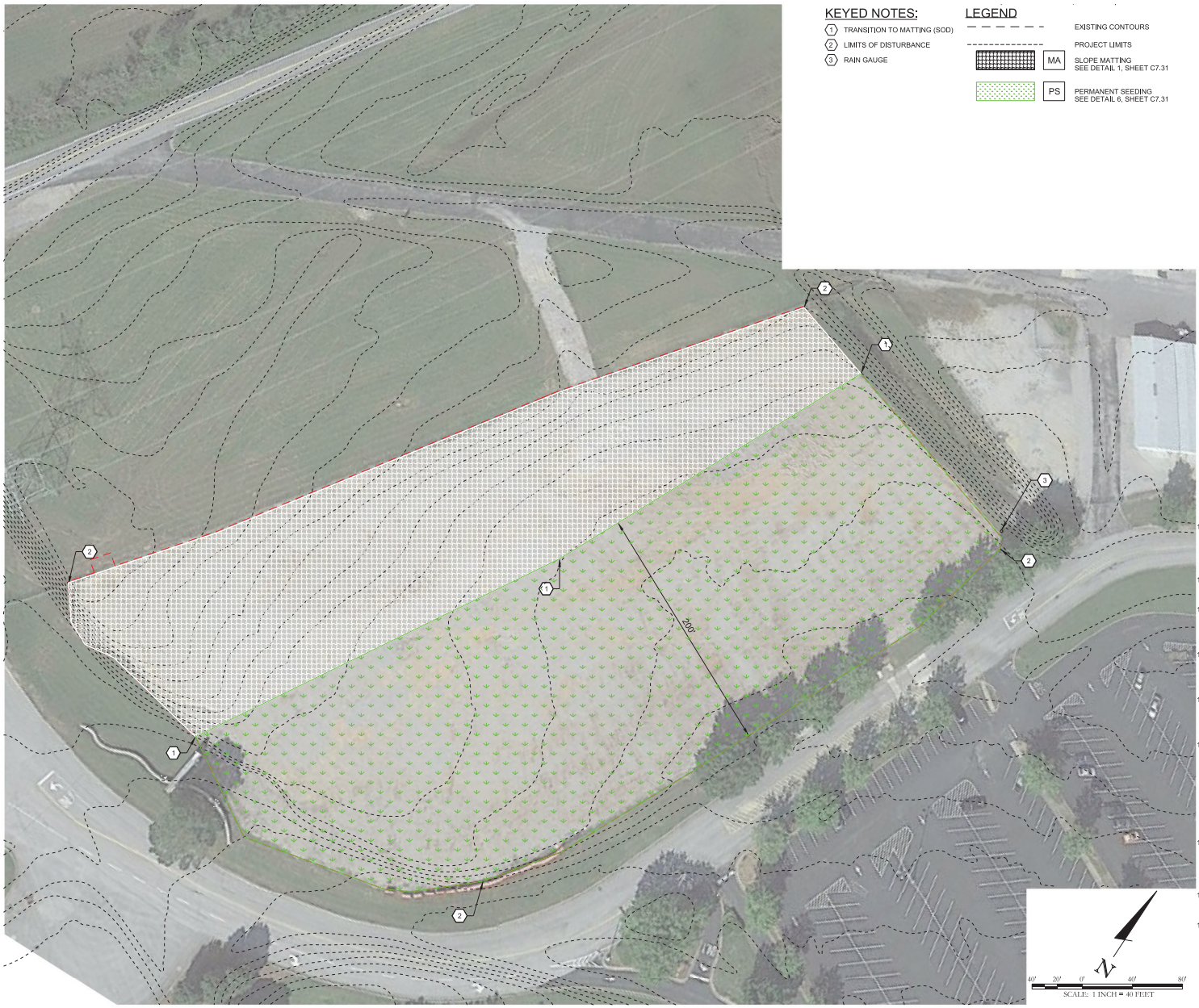

KEYED NOTES:

1. TRANSITION TO MATTING (SOD)
2. LIMITS OF DISTURBANCE
3. RAIN GAUGE

LEGEND

- EXISTING CONTOURS
- PROJECT LIMITS
- MA — SLOPE MATTING SEE DETAIL 1, SHEET C7.31
- PS — PERMANENT SEEDING SEE DETAIL 6, SHEET C7.31

NOTES

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17. EXTEND PERMANENT SEEDING TO COVER THE EXTENTS OF THE PROJECT AREA. SLOPE MATTING LIMITS SHOWN TO REDUCE SLOPE EROSION AFTER THE TRASITION FROM SHEET FLOW TO SHALLOW CONCENTRATED FLOW.
18. CONTRACTOR TO KEEP ALL PERIMETER EROSION CONTROL DEVICES IN PLACE UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.

SCALE: 1 INCH = 40 FEET

BARGE DESIGN SOLUTIONS
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GLORIA JEAN RICHARDSON — REGISTERED ENGINEER — No. 119798 — STATE OF TENNESSEE — 5-6-2021

FINAL EROSION & SEDIMENT CONTROL PLAN

SEQUOYAH NUCLEAR PLANT GRAVEL LOT RESTORATION
TENNESSEE VALLEY AUTHORITY
SODDY DAISY, TN

REV.	DR.	CHK.	DATE	DESCRIPTION
0	GJRN	BCN	05-06-2021	ISSUED FOR PERMITTING

REVISION INFORMATION

C2.51

FILE NO. 36152-09

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LandRes.pen Workspace: LandRes

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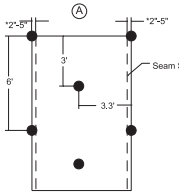
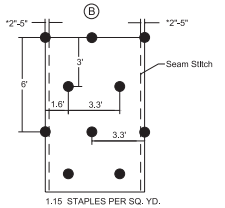
STAPLE PATTERN GUIDE



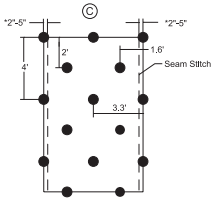
0.7 STAPLES PER SQ. YD.

For blankets with the optional North American Green DOT System place staples/stakes through each of the BLUE colored dots.



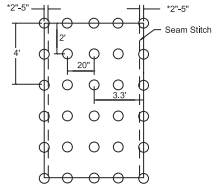
1.15 STAPLES PER SQ. YD.

For blankets with the optional North American Green DOT System place staples/stakes through each of the RED colored dots.



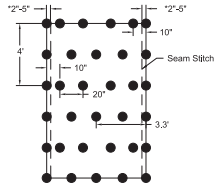
1.7 STAPLES PER SQ. YD.

For blankets with the optional North American Green DOT System place staples/stakes through each of the GREEN colored dots.



3.4 STAPLES PER SQ. YD.

For blankets with the optional North American Green DOT System place staples/stakes through each of the WHITE colored dots.

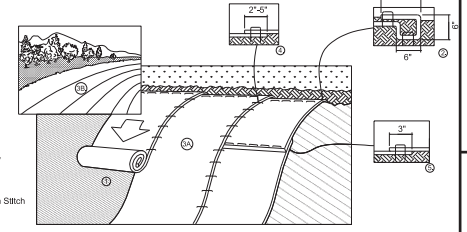


3.75 STAPLES PER SQ. YD.

For blankets with the optional North American Green DOT System place staples/stakes through each of the YELLOW colored dots.

*Location of Seam Stitch will vary depending on North American Green product type:

NORTH AMERICAN GREEN S150 OR EQUIVALENT



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED, DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP x 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.

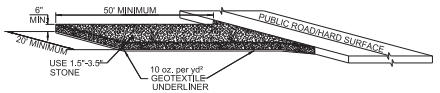
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENEDTO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.

5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA. APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

1 C7.31 SLOPE MATTING DETAIL
N.T.S.

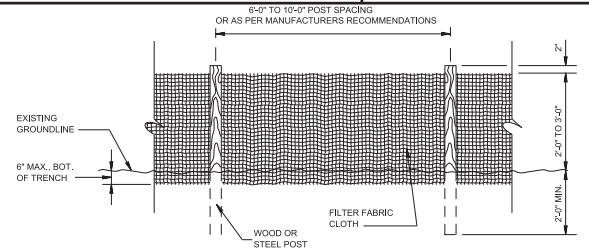


NOTES:
1. NO.2 STONE COARSE AGGREGATE PER T.D.O.T.
2. MINIMUM SIZE 20' WIDE x 50' LONG.
3. MINIMUM PAD THICKNESS = 6"
4. IF NECCESSARY, INCLUDE WHEEL WASHING.
5. MAY REQUIRE PERIODIC TOP DRESSING.
6. MAINTAIN IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ON TO PUBLIC OR PRIVATE ROADS.
7. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

2 C7.31 CONSTRUCTION EXIT
N.T.S.

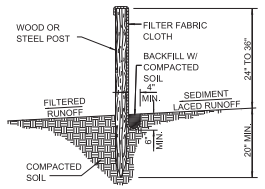
	BEST	MARGINAL	MIX (lb/acre PLS)
Temporary Seeding Winter	Oct 31 - Feb 15	Oct 15 - Mar 1	German millet (30) Sudangrass (40)
Temporary Seeding Summer	May 1 - Sept 15	April 15 - Oct 1	Annual ryegrass (40) Foxtail millet (30)
Permanent Seeding - 1	August 1-Dec.1	April 15-August 15	Kentucky 31 Fescue (80) English Rye (25) White Clover (11)
Permanent Seeding - 2	May 1- August 1	May 1-June 1	Weeping Lovegrass (65)

3 C7.31 SEEDING SCHEDULE



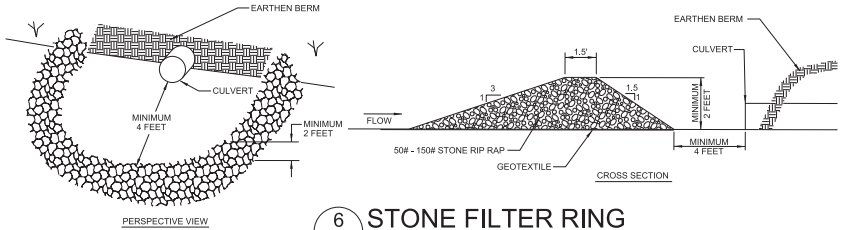
NOTES:

1. FILTER CLOTH SHALL HAVE APPROVED BACKING OR A BUILT-IN REINFORCED STRUCTURE, AS RECOMMENDED BY THE MANUFACTURER TO SUPPORT THE FILTER CLOTH.
2. FILTER CLOTH SHALL MEET THE REQUIREMENTS OF SECTION 209 OF T.D.O.T. STANDARD SPECIFICATIONS.
3. A PREASSEMBLED SILT FENCE MEETING THE REQUIREMENTS OF THIS DRAWING IS ACCEPTABLE IN LIEU OF A FIELD CONSTRUCTED SILT FENCE.
4. SILT FENCE TO BE REMOVED AFTER CONSTRUCTION AND VEGETATION IS ESTABLISHED.
5. MINIMUM 2" X 2" (NOMINAL) / 1.5" X 1.5" (ACTUAL) HARDWOOD POST (OAK OR HICKORY) - LENGTH 48" OR MINIMUM 1.33 LB./FT. STEEL POST (STANDARD OR U SECTION).
6. WHEN STEEL POSTS ARE USED THEY SHALL HAVE A PROTECTION FOR FASTENING WIRE TO THEM. THE WIRE FASTENERS SHOULD BE EVENLY SPACED WITH AT LEAST FIVE PER POST.

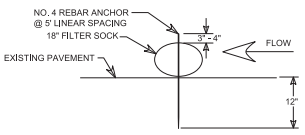


4 C7.31 SEDIMENT BARRIER-SILT FENCE
N.T.S.

NOTE:
CONTRACTOR MAY USE SILT FENCE OR FILTER SOCK FOR SEDIMENT BARRIER



6 C7.31 STONE FILTER RING
NOT TO SCALE



SECTION A-A

NOTES:
1. SOCKS SHALL BE FILLED USING A PNEUMATIC BLOWER HOSE OR EQUIVALENT, TO BE FIRMLY PACKED YET FLEXIBLE.
2. FILL MATERIAL TO BE MAXIMUM 2-INCH BIODEGRADABLE, MULCH MATERIAL.
3. CONTRACTOR RESPONSIBLE FOR DISPOSAL OF FILTER SOCK AND FILL MATERIAL UPON COMPLETION OF PROJECT.
4. FILTER SOCK TO BE MAINTAINED FOR THE DURATION OF THE PROJECT.

5 C7.31 TYPICAL FILTER SOCK SECTION
NOT TO SCALE

BARGE DESIGN SOLUTIONS
1110 Market Street // Suite 200 // Chattanooga, Tennessee 37402
PHONE (423) 756-2025 // FAX (423) 756-5477

GLORIA JEAN RICHARDSON — REGISTERED ENGINEER — No. 119798 — STATE OF TENNESSEE — 5-5-2021

EROSION & SEDIMENT CONTROL DETAILS

SEQUOYAH NUCLEAR PLANT GRAVEL LOT RESTORATION
TENNESSEE VALLEY AUTHORITY
SODDY DAISY, TN

REV'S	DR.	CHK.	DATE	DESCRIPTION
0	GJRN	BCN	05-05-2021	ISSUED FOR PERMITTING

C7.31

FILE NO. 36152-09

5/6/2021
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