



**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES**

William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243
Toll Free Number: 1-888-891-8332 (TDEC)

**NOTICE OF INTENT (NOI) FOR GENERAL NPDES PERMIT FOR
STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES (TNR100000)**

Site or Project Name: Nashville International Airport		NPDES Tracking Number: TNR 246280	
Street Address including city or zip code or Location: 1 Terminal Dr. Nashville, TN 37214		Construction Start Date: 11/14/2023	
Site Description: Relocation of existing Colonial pipelines, Line 19 and Line 20		Estimated End Date: 08/01/2023	
County(ies): Davidson		Latitude (dd.dddd): 36.1397	
MS4 Jurisdiction (if applicable): TNS068047		Longitude (-dd.dddd): -86.6659	
		Acres Disturbed: 27 acres	
		Total Acres: 27 acres	
Are there any streams <input checked="" type="checkbox"/> and/or wetlands <input checked="" type="checkbox"/> on or adjacent to the construction site? If wetlands are located on-site and may be impacted, attach wetlands delineation report. If an Aquatic Resource Alteration Permit has been obtained for this site, what is the permit number? ARAP Number: NR2204.245			
Receiving waters: McCrory Creek, Sims Branch, and an intermittent stream			
Include the SWPPP with the NOI <input checked="" type="checkbox"/> SWPPP Included		Include a site location map <input checked="" type="checkbox"/> Map Included	

Name of Site Owner or Developer (Site-Wide Permittee): (correct legal name of person, company, or entity that has operational or design control over construction plans and specifications) Colonial Pipeline Company			
For corporate entities only, provide the Tennessee Secretary of State (SOS) Control Number: 000036654			
Site Owner or Developer Contact Name: (individual responsible for site) Evan Hay		Title or Position: (the party who signs the certification below): Manager of Operations for Colonial Pipeline Company	
Mailing Address: 2999 Hwy 52 E.		City: Pelham	State: AL
		Zip: 35124	
Phone: (470) 330-4792		E-mail: Ehay@colpipe.com	

Optional Contact Name: Igor Rodrigues		Title or Position: Relocation Engineer	
Mailing Address: 1000 Lake St		City: Alpharetta	State: GA
		Zip: 30009	
Phone: (470) 484-2327		E-mail: irodrigues@colpipe.com	

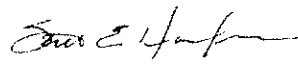
Owner or Developer Certification: (must be signed by president, vice-president or equivalent, or ranking elected official) (Primary Permittee)

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 or Developer Name: (print or type): Evan Hay	Signature: 	Date: 2/1/2023
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Contractor(s) 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.

Primary contractor name, address, and SOS control number (if applicable): (print or type) Scott Hunsberger Michels Pipeline, Inc. ,2155 Park Avenue, Suite 105 Washington, PA 15301 SOS Control #00101315	Signature: 	Date: 01/26/2023
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Primary contractor name, address, and SOS control number (if applicable): (print or type)	Signature:	Date:
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Primary contractor name, address, and SOS control number (if applicable): (print or type)	Signature:	Date:
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Site Owner or Developer Contact Name: (individual responsible for site) Evan Hay		Title or Position: (the party who signs the certification below): Manager of Operations for Colonial Pipeline Company	
Mailing Address: 2999 Hwy 52 E.	City: Pelham	State: AL	Zip: 35124
Phone: (470) 330-4792	E-mail: Ehay@colpipe.com		

Optional Contact Name: Igor Rodrigues		Title or Position: Relocation Engineer	
Mailing Address: 1000 Lake St	City: Alpharetta	State: GA	Zip: 30009
Phone: (470) 484-2327	E-mail: irodrigues@colpipe.com		


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

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Owner or Developer Name: (print or type): Evan Hay	Signature:	Date:
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Street Address including city or zip code or Location: 1 Terminal Dr. Nashville, TN 37214		Construction Start Date: November 2022	
Site Description: Relocation of existing Colonial pipelines, Line 19 and Line 20		Estimated End Date: August, 2023	
County(ies): Davidson		Latitude (dd.dddd): 36.1397	
MS4 Jurisdiction (if applicable): TNS068047		Longitude (-dd.dddd): -86.6659	
		Acres Disturbed: 25.0	
		Total Acres: 25.0	
Are there any streams <input checked="" type="checkbox"/> and/or wetlands <input checked="" type="checkbox"/> on or adjacent to the construction site? If wetlands are located on-site and may be impacted, attach wetlands delineation report. If an Aquatic Resource Alteration Permit has been obtained for this site, what is the permit number? ARAP Number: NR2204.245			
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For corporate entities only, provide the Tennessee Secretary of State (SOS) Control Number: 000036654			
Site Owner or Developer Contact Name: (individual responsible for site) Heath Bryant, P.E		Title or Position: (the party who signs the certification below): Relocation Project Manager Colonial Pipeline Company	
Mailing Address: 1000 Lake St		City: Alpharetta	State: GA Zip: 30009
Phone: (678) 762-2284		E-mail: HBryant@colpipe.com	

Optional Contact Name: Igor Rodrigues		Title or Position: Relocation Engineer	
Mailing Address: 1000 Lake St		City: Alpharetta	State: GA Zip: 30009
Phone: (470) 484-2327		E-mail: irodrigues@colpipe.com	

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

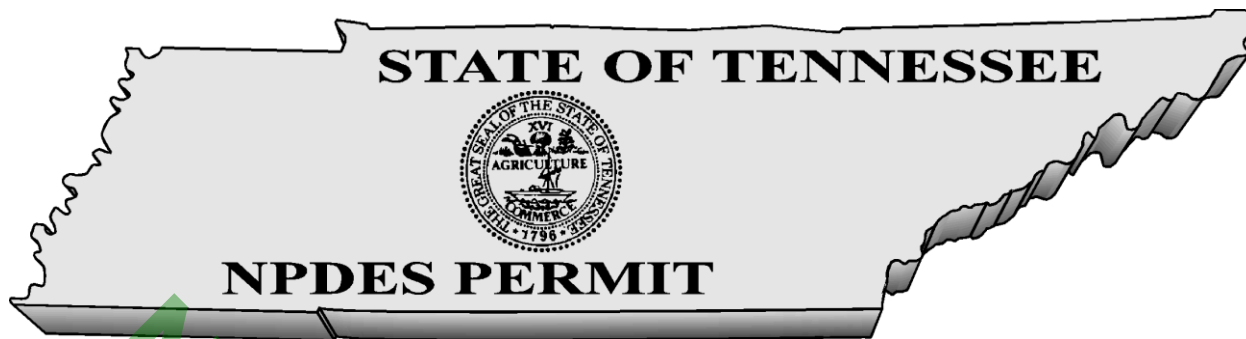
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Owner or Developer Name: (print or type): Jeffrey Bird <i>JEFFREY S BIRD</i>	Signature: <i>Jeffrey S Bird</i>	Date: 9-2-2022
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Contractor(s) Certification: (must be signed by president, vice-president 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.

Primary contractor name, address, and SOS control number (if applicable): (print or type)	Signature:	Date:
Primary contractor name, address, and SOS control number (if applicable): (print or type)	Signature:	Date:
Primary contractor name, address, and SOS control number (if applicable): (print or type)	Signature:	Date:



Tracking Number TNR246280

NOTICE OF COVERAGE UNDER THE GENERAL NPDES PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (CGP)

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

Under authority of the Tennessee Water Quality Control Act of 1977 (T.C.A. 69-3-101 et seq.) and the delegation of authority from the United States Environmental Protection Agency under the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 (33 U.S.C. 1251, et seq.):

Name of the Construction Project: **Nashville International Airport (25 acres)**
Master Tracking Number at the Site: **TNR246280**
Permittee Name: **Colonial Pipeline Company**
Project Name: **Nashville International Airport**
Contractor(s): **no contractor**
is authorized to discharge: **storm water associated with construction activity**
from site located at: **1 Terminal Dr., Davidson County**
to receiving waters named: **McCrory Creek**
in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

Likely presence of threatened or endangered species in one mile radius: **YES**
Likely presence of threatened or endangered species downstream: **YES**

Additional pollution prevention requirements apply for discharges into waters which TDEC identifies as:

- Exceptional Tennessee Waters: NO

Your coverage under the CGP shall become effective on **October 17, 2022**, and shall be terminated upon receipt of [Notice of Termination](#).

A copy of the CGP can be obtained from <https://www.tn.gov/content/tn/environment/permit-permits/water-permits1/npdes-permits1/npdes-stormwater-permitting-program/npdes-stormwater-construction-permit.html>



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES

Nashville Environmental Field Office
711 R.S. Gass Boulevard
Nashville, TN 37216

Phone 615-687-7000 Statewide 1-888-891-8332 Fax 615-687-7078

October 23, 2022

Jeffrey Bird
Senior Manager, Operations; Alabama / Tennessee
Colonial Pipeline Company
e-copy: JBird@colpipe.com
2999 County Road 52 East
Pelham, AL 35124

Subject: **NPDES Construction General Permit Tracking No. TNR246280**
 Master Tracking Number: TNR246280
 Nashville International Airport
 Colonial Pipeline Company
 Nashville, Davidson County, Tennessee

Dear Bird:

You recently submitted a Notice of Intent (NOI) form as part of an application package to obtain coverage under a General NPDES Permit for Storm Water Discharges Associated with Construction Activity. The Division of Water Resources (the division) acknowledges receipt of the most recent version of the application for the above referenced project on September 23, 2022. After review, the application was deemed to be complete on October 17, 2022. Enclosed is the Notice of Coverage (NOC) form which shows the site name and location, receiving stream, effective date of coverage, etc.

Contractor Information

You have not identified a contractor on the NOI. You must identify a primary contractor, or contractor otherwise responsible for sediment and erosion controls on the construction site, if appropriate, and submit a revised NOI to this office prior to beginning earth clearing operations onsite. When submitting the NOI, please include the above referenced permit tracking number.

Storm Water Pollution Prevention Plan (SWPPP)

You have submitted a Storm Water Pollution Prevention Plan (SWPPP) as required by Section 1.4.2 of the CGP. Please note that the division has not performed an engineering review of the SWPPP and does not certify whether the SWPPP adequately provides for the pollution prevention requirements at the site as described in the general permit. The division acknowledges that you have submitted a SWPPP that appears to include the required components of a SWPPP. It is the responsibility of all site operators to design, implement, and maintain measures that are sufficient to prevent pollution at the referenced site, and to remain in compliance with the terms and conditions of the general permit.

Threatened and Endangered Species

The receiving stream for the construction site for which the NOI was submitted has Federal or State listed threatened and endangered species in the area, or downstream of your project. Stormwater discharges and stormwater discharge-related activities that are not protective of legally protected listed or proposed threatened or endangered aquatic fauna in the receiving stream(s); or discharges or activities that would result in a 'take' of a Federally listed endangered or threatened fish or wildlife species are not authorized by the General Permit. If the division finds that stormwater discharges or stormwater related activities are likely to result in any of the above effects, the division will deny the coverage under this general permit unless and until project plans are changed to protect the listed species. In addition, discharges from your construction site that result in harm to such species may incur additional fines and penalties from the US Fish and Wildlife Service and/or the Tennessee Wildlife Resources Agency.

Annual Maintenance Fee and Termination of Permit Coverage

Effective July 1, 2014, permit fees for the General Permit have been revised. In addition to new application fee amounts, annual maintenance fees are now required for projects that exceed one year of coverage. Permittees wishing to terminate coverage must submit a completed notice of termination (NOT) form, which is available on the division's construction stormwater webpage at <https://www.tn.gov/content/tn/environment/permit-permits/water-permits1/npdes-permits1/npdes-stormwater-permitting-program/npdes-stormwater-construction-permit.html>.

The division will review the NOT for completeness and accuracy and, when necessary, investigate the site for which the NOT was submitted. The division will notify the applicant that either the NOT form was received and accepted, or that the permit coverage is not eligible for termination and has not been terminated. If applicable, the notification will include a summary of existing deficiencies.

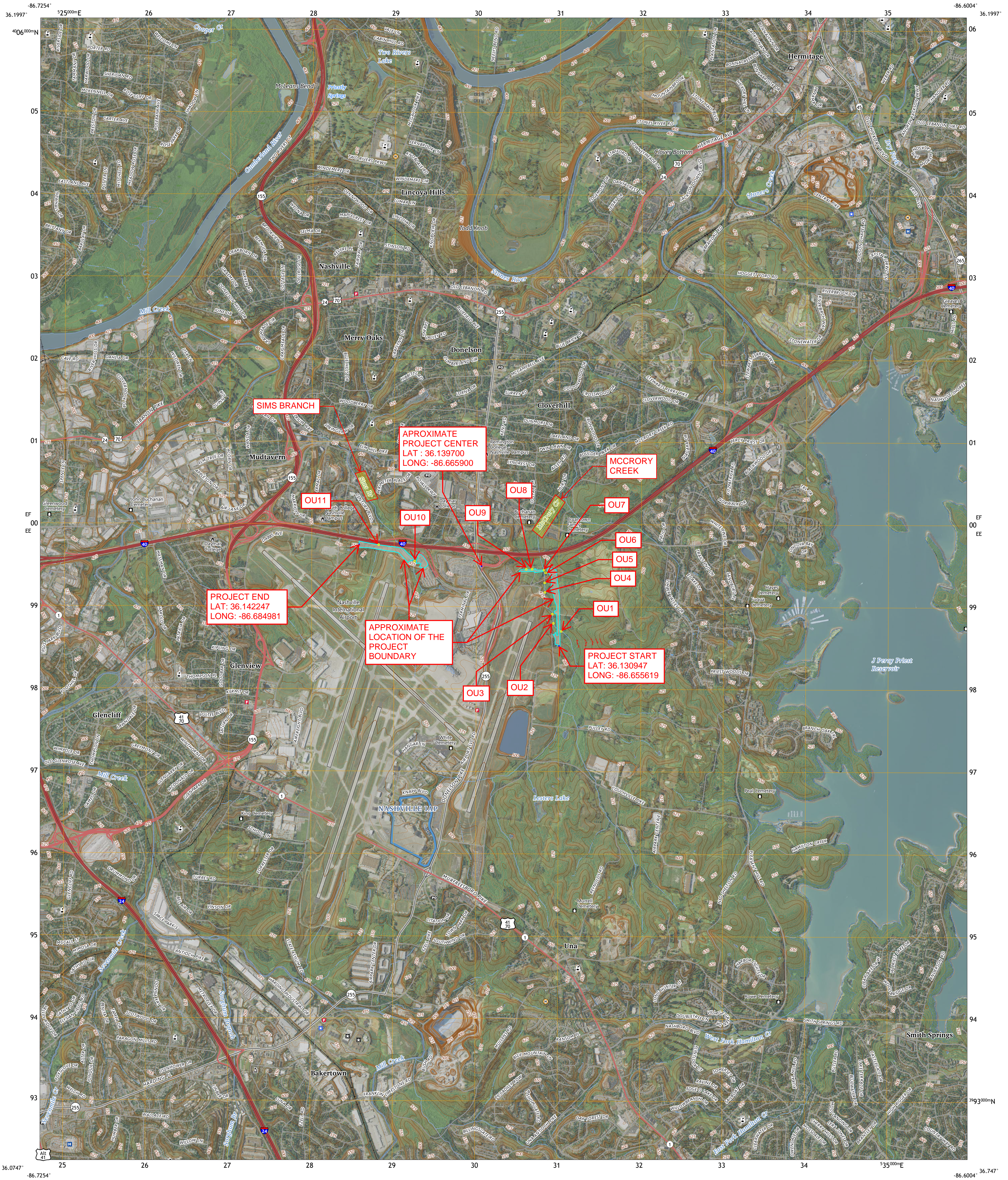
We appreciate your attention to the general construction storm water permit and its requirements. A copy of the CGP can be obtained from <https://www.tn.gov/content/tn/environment/permit-permits/water-permits1/npdes-permits1/npdes-stormwater-permitting-program/npdes-stormwater-construction-permit.html>. We believe this does make a difference to the quality of state waters. If you have any questions, please contact Ms. Virginia Lawrence at (615) 714-0730 or by e-mail at Virginia.Lawrence@tn.gov.

Sincerely,



Timmy Jennette
Environmental Program Manager

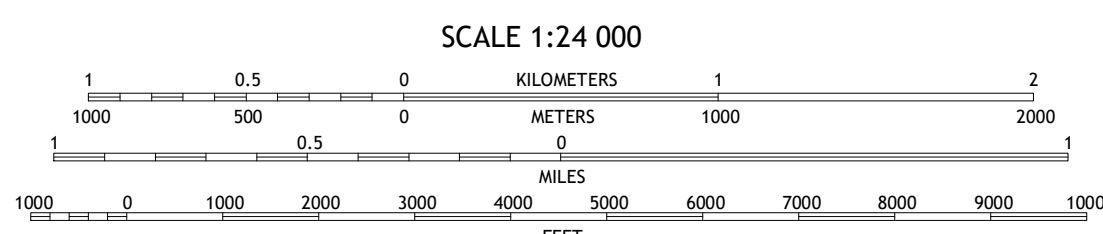
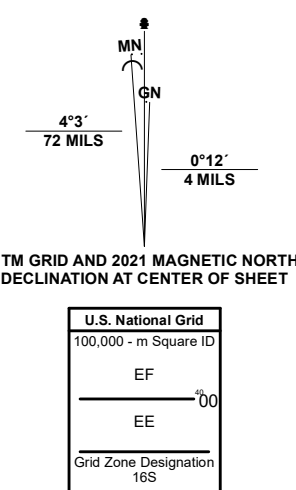
cc: DWR, Nashville EFO Permit File
Mr. Michael Hunt, NPDES Program Mgr Metro Water Services Stormwater Division,
michael.hunt@nashville.gov



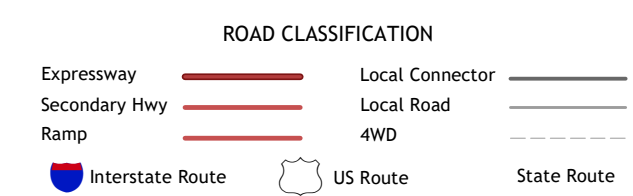
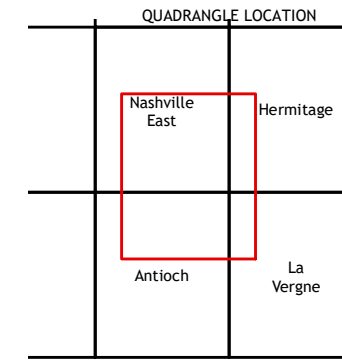
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North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000 meter grid/Universal Transverse Mercator, Zone 16S
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CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium



7.5-MINUTE TOPO 1, TN
2022



**UPDATE OF
Storm Water Pollution Prevention Plan
(SWPPP)**

Tracking Number TNR246280

Permit Number:

NPDES General Permit for Discharges of Stormwater, TNR100000

Prepared For:

Prime Contractor, Michels Pipeline Inc.

On Behalf Of:

Colonial Pipeline Company

Development Name & Location:

DONELSON PIKE PROPOSED LINE 19 AND LINE 20 RELOCATIONS
Davidson County, Tennessee

Prepared by:

Kleinfelder

Date:

January 31, 2023

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APPENDIX E	Construction Stormwater Inspection Form
APPENDIX F	Tennessee Erosion & Sediment Control Handbook Sections
APPENDIX G	Suggested Construction Sequence

1.0 Contact Information

<i>DEVELOPER</i>	<i>PHONE/FAX/MOBILE</i>	<i>ADDRESS</i>
<i>Colonial Pipeline Company Evan Hay Operations Manager TN/AL</i>	<i>P: 205-685-6001 M: 470-330-4792</i>	<i>Colonial Pipeline Company 2999 Hwy. 52 E. Pelham, AL 35194</i>
<i>Colonial Pipeline Company Heath Bryant, P.E. Relocation Project Manager</i>	<i>P: 678-762-2284 M: 713-502-2364</i>	<i>Colonial Pipeline Company 1000 Lake Street Alpharetta, GA 30009</i>
<i>Colonial Pipeline Company John Wyatt Environmental Permitting</i>	<i>P: 423-713-7568 M: 404-713-9270</i>	<i>Colonial Pipeline Company 1000 Lake Street Alpharetta, GA 30009</i>
<i>DESIGNER</i>	<i>PHONE/FAX/MOBILE</i>	<i>ADDRESS</i>
<i>Kleinfelder Andrew Fleming Senior Project Manager</i>	<i>P: 470-571-1446 M: 470-366-0173</i>	<i>Kleinfelder 5775 Glenridge Drive NE Suite 585B Atlanta, GA 30328</i>
<i>Kleinfelder Liz Bissonnette, P.E. Program Manager</i>	<i>P: 919-755-5011 M: 860-770-7840</i>	<i>Kleinfelder 3500 Gateway Center Blvd, Suite 200 Morrisville, NC 27560</i>
<i>PROJECT CONTRACTOR</i>	<i>PHONE/FAX/MOBILE</i>	<i>ADDRESS</i>
<i>Michels Pipeline Tyler Protiva Project Manager</i>	<i>P: 724-249-2065 M: 920-579-7061</i>	<i>2155 Park Avenue, Suite 105 Washington, PA 15301</i>
<i>PROJECT EROSION LEAD/ 24-HOUR CONTACT</i>	<i>PHONE/FAX/MOBILE</i>	<i>ADDRESS</i>
<i>Drew Parsons</i>	<i>M: 920-539-4826</i>	
<i>OTHER</i>		

2.0 Objective

A storm water pollution prevention plan (SWPPP) was prepared for storm water discharges that will reach the Waters of Tennessee to identify and address potential sources of pollution that are reasonably expected to affect the quality of discharges from the construction site, including temporary overburden and stockpiles of dirt, borrow areas, equipment staging areas, fueling areas, etc., used by the permitted project. This SWPPP describes and ensures the implementation of practices that will be used to reduce the pollutants in storm water discharges associated with construction activity at the construction site and assure compliance with the terms and conditions of the general permit.

This SWPPP covers the work being performed on this project, however the prime contractor (TBD) shall be the responsible party for the implementation, management, oversight, documentation, reporting, etc. for all SWPPP compliance requirements in accordance with the NPDES General Permit for Discharges of Stormwater, TNR100000 (General Permit). The prime contractor (TBD) and all parties that will have day-to-day operational control of the construction site, will be responsible for submitting an NOI identifying as the new operators, prior to commencing work at the site. They will be considered secondary permittees and will ensure compliance with the SWPPP and other permit conditions. The SWPPP must also be updated to reflect the addition of new operators.

3.0 Stormwater Discharges Associated with Construction Support Activities

The General Permit authorizes stormwater discharges from support activities associated with a permitted construction activity. These activities may include equipment staging yards, material storage areas, excavated material disposal areas and borrow areas and are authorized provided all of the following conditions are met:

- The support activity is related to a construction activity that is covered under this general permit.
- The operator of the support activity is the same as the operator of the construction activity.
- The support activity is not a commercial operation serving multiple unrelated construction projects by different operators.
- The support activity does not operate beyond the completion of the construction activity of the last construction project it supports.
- Support activities are identified in the Notice of Intent (NOI) and the Stormwater Pollution Prevention Plan (SWPPP). The appropriate erosion prevention and sediment controls and measures applicable to the support activity shall be described in a site wide SWPPP covering all discharges from the support activity areas.

This permit does NOT authorize any process (dry weather) wastewater discharges from support activities.

4.0 Non-Storm Water Discharges

The following non-storm water discharges are authorized for discharge under the NPDES General Permit for Discharges of Stormwater, TNR100000, provided the non-stormwater component is in compliance with Subsection 5.5.3.12 of the permit.

- Dewatering of collected stormwater and groundwater, discharged in accordance with section 4.1.3.
- Waters used to wash dust and soils from vehicles where detergents are not used and detention and/or filtering is provided before the water leaves site. Wash removal of process materials such as oil, asphalt or concrete is not authorized.
- Water used to control dust in accordance with Section 5.5.3.7
- Potable water sources, including waterline flushings, from which chlorine has been removed to the maximum extent practicable.
- Routine external building washdown that does not use detergents or other chemicals.
- Uncontaminated, non-turbid groundwater or spring water.
- Foundation or footing drains where flows are not contaminated with pollutants (e.g., lubricants and fluids from mechanized equipment, process materials such as solvents, heavy metals, etc.).
- Discharges from emergency fire-fighting activities.
- Fire hydrant flushings.
- Landscape irrigation.
- Pavement wash waters, provided spills or leaks of toxic or hazardous substances have not occurred (unless all spill material has been removed) and where soaps, solvents, and detergents are not used.
- Uncontaminated air conditioning or compressor condensate.

All authorized non-stormwater discharges must be free of sediment and other solids, must not cause erosion of soils, and must not result in sediment or erosion impacts to receiving streams.

The contractor will keep all hydrostatic test water discharges in upland areas and within the project disturbance areas encompassed by EPSC measures. All applicable permits, effluent limitations on chlorine or other limitations, and applicable regulations will be adhered.

5.0 SWPPP Availability and Modifications

5.1 Availability

A copy of the existing version of the SWPPP shall be retained on-site at the location which generates the stormwater discharge in accordance with Part 7 of the NPDES General Permit for Discharges of Stormwater, TNR100000. If the site is inactive or does not have an onsite location adequate to store the SWPPP, the location of the SWPPP, along with a contact phone number, shall be posted on-site. If the SWPPP is located off-site, reasonable local access to the plan during normal working hours must be provided.

The following will be posted at the project board which must be visible to the public:

- A copy of the Notice of Coverage (NOC) with the NPDES permit number.
- The Colonial representative and contractor contact names with E-mail addresses and telephone numbers.
- the location of the SWPPP on site.

This SWPPP and inspection reports must be made available upon request to the director; the local agency approving erosion prevention and sediment control plans, grading plans, land disturbance plans or stormwater management plans; or the operator of the MS4. Files will be retained by Colonial for a minimum of 3 years from the time the NOT is submitted.

5.2 Modifications

This SWPPP must be modified, updated and recertified is any of the following conditions apply:

1. Whenever there is a change in the scope of the project that 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.
2. 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.
3. Whenever inspections or investigations by site operators or local, state or federal officials indicate the SWPPP is proving ineffective in eliminating or significantly minimizing pollutants from sources identified under Section 5.5.2 or is otherwise not achieving the general objectives of controlling pollutants in stormwater discharges associated with construction activity. Where local, state or federal officials determine that the SWPPP is ineffective in eliminating or significantly minimizing pollutant sources, a copy of any correspondence to that effect must be retained in the SWPPP.

4. Whenever any new operator (typically a secondary permittee) who will implement a measure of the SWPPP must be identified (see Subpart 3.1.1 for further description of which operators must be identified).
5. Whenever it is necessary to include water quality protection measures as required by the applicable wildlife management agency intended to prevent a negative impact to legally protected state or federally listed fauna or flora (or species proposed for such protection – Subpart 1.3). Amendments to the SWPPP may be reviewed by the division, a local MS4, the EPA, or an authorized regulatory agency.
6. Whenever a Total Maximum Daily Load (TMDL) is developed for the receiving waters for a pollutant of concern (e.g., siltation).

All other permittees implementing portions of the SWPPP that will be impacted by a change to the SWPPP will be notified of the change in a timely fashion.

6.0 Site or Project Description

Colonial Pipeline Company currently operates a 12-inch pipeline, Line 19, and an 8-inch pipeline, Line 20, which are located below grade through the northern part of the Nashville Airport and crosses Donelson Pike in Nashville, Tennessee. The Tennessee Department of Transportation (TDOT) is proposing a road project modifying Donelson Pike and the Metropolitan Nashville Airport Authority (MNA) is proposing a project to expand some of its existing airport-support facilities such as roadways, loop road and parking. To accommodate both projects, Colonial is relocating Lines 19 and 20.

The re-route for Line 19 includes a north-south open trench approximately 3,500 feet in length to install the line adjacent to Line 20. Both lines will be relocated in the east-west direction with horizontal directional drill approximately 5,000 feet in length. After the new sections of pipelines are installed, the sections of both lines that will be by-passed will be predominately grouted and left in place rather than removed. Line 19 has 8,000 feet and Line 20 has approximately 6,000 feet of pipeline that will be grouted and left in place.

6.1 Construction Activity Acres

Activity or Material	Acres
Limits of Disturbance	27

The Erosion Prevention and Sediment Controls (EPSC) Plans present the phased approach to site controls that will be followed by the contractor. The Initial and Interim/Post Drainage Areas are presented to present the surface flows to introduce the controls presented in the rest of the plans.

The Initial Phase of the EPSC Plans established the perimeter control of sediment and pollution containment. Access to disturbed areas of the project is lined with gravel exit to rid tires of mud and keep sediment contained within the perimeter control.

The Interim Phase of the EPSC Plans will expand on the Initial phase to control stormwater flow and loss of sediment during construction. Best Management Practices (BMPs) are placed to direct flow around trenched areas and to prevent excavation stockpiles from eroding in flow paths.

The Final Phase of EPSC Plans will stabilize the areas all the disturbed area. Structural BMP's will be removed. Permanent seeding and grassing will prevent future sediment loss.

6.2 Soil Data

Soil delineation is detailed in the Erosion Prevention and Sediment Control (EPSC) Plans and denoted by an orange dashed line. Hydric soils, soil type Ld, Lindell silt loam, have been identified and are clearly denoted in the EPSC Plans. See Soil Resource Report for Davidson County, Tennessee in Appendix C. The runoff coefficient / peak discharge table is also included on page 2 of the EPSC Plan set.

6.3 General Location Map and Site Map

The general location map is found in the NOI document. A detailed site map is included in the EPSC Plan set.

6.4 Erosion and Sediment Control

All control measures will be installed and maintained in accordance with the manufacturer's specifications and/or good engineering practices. EPSC measures must be in place and functional before earth moving operations begin and must be constructed and maintained throughout the construction period stages as appropriate.

If periodic inspections or other information indicate a control has been used inappropriately, or incorrectly, it must be replaced or modified. If sediment escapes the permitted area, off-site accumulations that have not reached a stream must be removed at a frequency sufficient to minimize off-site impacts (e.g., sediment that has escaped a construction site and collected in a street must be removed so that it does not subsequently wash into storm sewers and streams during the next rain or so that it does not pose a safety hazard to users of public streets). Permittees shall not initiate remediation or restoration of a stream without receiving prior authorization from the division.

Arrangements concerning the removal of sediment on adjoining property must be settled by the permittee and the adjoining landowner. Sediment must be removed from sediment traps, silt fences, and other sediment controls when design capacity has been reduced by 50%.

Pre-construction vegetative ground cover shall not be destroyed, removed or disturbed more than 14 days prior to commencement of grading or earth moving activities unless the area is subsequently temporarily or permanently stabilized. Clearing and grubbing must be held to the minimum necessary for grading and equipment operation. Existing vegetation at the site shall be preserved to the maximum extent practicable. EPSC measures must be in place and functional before earth moving operations begin and must be constructed and maintained throughout the construction period stages as appropriate. Details for the temporary construction access are located in the EPSC plans in Appendix A.

The EPSC Plan set includes the following:

- Drainage patterns and approximate slopes anticipated after major grading activities.
- Locations of all major structural and non-structural controls either planned or in place.
- Locations where stabilization practices are expected to be used.
- Surface waters (i.e. creeks, streams, or ponds including wetlands) either adjacent or in close proximity of site.
- Locations where storm water discharges from the site and location of outfall points.

Implementation of EPSC measures will be installed in three phases. During phase 1, the initial phase, temporary construction entrances will be established, silt fences will be installed, and Clear Water Diversions (CWDs) will be constructed. For the interim phase, phase 2, all BMPs will be placed for each area of construction to expand on the initial phase. The final phase, phase 3, will be seeding and stabilization measures.

6.5 Industrial Discharges

This project does not involve discharges associated with industrial activities.

6.6 Total Maximum Daily Loading (TMDL)

Currently, there is no TMDL established for the receiving stream that would regulate potential pollutants from the construction site.

6.7 Receiving Waters

The water bodies that receive stormwater discharges from the site are McCrory Creek and Sims Branch. Buffer zones are clearly identified and outlined on the EPSC Plans for these receiving water bodies. No unavailable parameters or Exceptional Tennessee Waters have been identified.

6.8 NPDES General Permit for Discharges of Stormwater, TNR100000

A copy of the NPDES General Permit for Discharges of Stormwater, TNR100000 is included in Appendix B.

7.0 Erosion and Sediment Controls

This section includes descriptions of control measures that will be implemented to control pollutants in the storm water discharges. The control measures are, at a minimum, designed to effectively minimize the discharge of pollutants by design, installation, and maintenance, in order to meet the requirements of the NPDES General Permit for Discharges of Stormwater, TNR100000.

7.1 Short- and Long-Term Goals/Criteria

- Retain sediment on-site to the extent practicable with consideration for local topography, soil type, and rainfall.
- Select, install, and maintain control measures according to the manufacturer or designer's specifications.
- Remove sediment accumulations if sediment escapes the site at a frequency to minimize further negative effects and, whenever feasible, prior to the next storm event.
- Remove sediment from silt fences before reaching 50% of fence height (above ground). See Appendix D for EPA Stormwater Best Management Practice, Silt Fences.
- Address off-site material storage areas in erosion and sediment control efforts (overburden and dirt stockpiles, borrow areas). There are no offsite material storage areas with this project.

7.2 Best Management Plans (BMPs)

The chosen controls include designs that are effective at minimizing pollutants, and will be installed and maintained to:

- Control storm water volume and velocity in ways that minimize soil erosion.
- Control storm water runoff during peak flow and total storm runoff volume to minimize channel and stream bank erosion and scour around discharge points.
- Minimize exposed soils generated during construction.
- Preserve topsoil where feasible.
- Minimize disturbance of steep slopes on site.
- Minimize sediment discharge with erosion and sediment controls that are designed and installed to address:
 - Duration, amount, frequency and intensity of precipitation,
 - Nature of resulting runoff,
 - Soil characteristics: range of particle sizes present.
- Use natural buffers around waters of the state and direct runoff to these areas, where feasible.
- Minimize soil compaction unless dictated by site development.

7.3 Site-Specific Erosion and Sediment Controls

The erosion and sediment control methods used are listed in the EPSC Plan set.

Silt fence will be installed along the downslope side of the limits of disturbance with silt fence outlets at the low points and where practical. Clear water ditches will be used upstream of the limits of disturbance to route clean water around work zone.

Temporary diversion ditches will be used to route all surface water flow around dirt stockpiles. Additional silt fence will be placed on downhill side of stockpiles located on the uphill side of the limits of disturbance. Timber mat bridges, dam and water pump around systems, and matting will be used for river crossings. A temporary railcar bridge will be used to cross the existing wetland in the work zone.

8.0 Stabilization Practices

The site stabilization practices described in this SWPPP include interim (temporary) and permanent stabilization measures that ensure that disturbed portions of the site are stabilized, and that existing vegetation is preserved when possible. Final stabilization measures may include but are not limited to establishment of permanent self-sustaining perennial vegetation, mulching, geo-textiles, sod stabilization, vegetative buffer strips, protection of existing trees and mature vegetation, and other appropriate measures depending on post-construction land use.

8.1 Deadline to Initiate Stabilization Measures

The types of activities that constitute the initiation of stabilization include, but are not limited to:

- Prepping soil for vegetative or non-vegetative stabilization.
- Applying mulch or other non-vegetative product.
- Seeding or planting.
- Starting stabilization practices on a portion of the area to be stabilized.
- Finalizing arrangements to have stabilization product fully installed.

Stabilization measures will be initiated immediately in portions of the site where clearing, grading, excavating, or other earth disturbing activities have permanently ceased on any portion of the site, or temporarily ceased and will not resume for 14 days. If earth disturbing activities will resume within 14 days, stabilization measures do not have to be initiated on that portion of the site.

8.2 Deadline to Complete Installation of Stabilization Measures

As soon as practicable, but no later than 14 days after initiation of soil stabilization measures, the site will have completed:

- Vegetative Stabilization – initial seeding or planting, and/or
- Non-Vegetative – installation or application of temporary stabilization measures.

With extenuating circumstances like drought, stabilization measures will be completed as soon as practicable. Routine inspections will be continued until final stabilization requirements are met.

8.3 Other Deadlines

Where the site is affected by circumstances beyond the control of the Stormwater Permittee, and vegetative stabilization measures are proposed, the following deadlines apply:

- Immediately initiate, and within 14 days complete installation of temporary non-vegetative measures to prevent erosion.
- As soon as conditions allow, the activities required to plant and initially establish vegetation will proceed.

The circumstances that led to the inability to complete the deadlines outlined in sections 8.1 and 8.2 of this SWPPP will be documented, with the outline of a schedule for initiating and completing stabilization.

9.0 Structural Controls

The structural controls used on this project are detailed within the EPSC Plans. Clear water diversions are used to minimize surface water flow, divert flows away from exposed soils, and to limit the contact of runoff with disturbed areas into each drainage area on the project. Temporary silt fencing and temporary filter socks are located to prevent or minimize off-site transport of eroded soils. Please see Tennessee Erosion & Sediment Control Handbook, Practice 7.34: Silt Fence in Appendix F.

10.0 Storm Water Management

No permanent storm water controls (e.g. detention ponds, catch basin filter inserts, etc.) or velocity dissipation devices are planned to be installed during the construction. The runoff coefficient / peak discharge table is included on page 2 of the EPSC Plan set.

11.0 Other Controls

To minimize off-site tracking of sediments and generation of dust, typical controls may include stabilized construction entrances, shoveling and sweeping, watering for dust control, etc.

Where soils are exposed and in close proximity to receiving streams, plastic sheeting can provide a temporary ground cover to prevent erosion and off-site sediment discharges. Please see Tennessee Erosion & Sediment Control Handbook, Practice 7.14: Emergency Stabilization with Plastic in Appendix F.

All construction and waste materials that pose a potential pollutant source to the storm water runoff from the construction site will be stored in such a manner so as to prevent or minimize storm water contact. Designated waste management areas should be identified throughout the construction process, separating trash from reusable or recyclable materials. Please see Tennessee Erosion & Sediment Control Handbook, Practice 7.19: Trash and Debris Management in Appendix F.

12.0 MAINTENANCE

All erosion and sediment control measures and other protective measures identified in this SWPPP must be maintained in effective operating condition. If through inspections the permittee determines that BMPs are not effective, maintenance must be performed before the next anticipated storm event or as necessary to maintain the continued effectiveness of storm water controls. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable. Erosion and sediment controls that have been intentionally disabled, run over, removed, or otherwise rendered ineffective must be replaced or corrected immediately upon discovery.

13.0 Inspection of Controls

The implemented BMPs will be inspected at least twice a week at least 72 hours apart. Based on the results of the inspection, any inadequate or damaged control measures will be replaced, modified or repaired as necessary, before the next rain event; but in no case more than 7 days after the inspection identifies the need. See details in the EPSC plans for maintenance of each specific measure. A rain gauge will be used by the contractor to collect accurate project-specific rainfall records.

Inspections will be conducted by individuals that have completed the “Fundamentals of Erosion Prevention and Sediment Control Level I” course. Inspections can also be completed by a licensed professional engineer or landscape architect, 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 will be kept on site.

Inspections will verify and document the functionality and performance of the EPSC measures described in the SWPPP. Initial inspections will also indicate if all EPSCs have been installed as designed in the submitted SWPPP and EPSC plans; and, if not, measures that need to be taken so those EPSCs meet the design specifications in the SWPPP and EPSC plans.

Inspections will be recorded on a Construction Stormwater Inspection Form in Appendix E. Any required repairs will be completed by the contractor immediately. Contractor will keep on site, at all times, a minimum of the past 30 days of Construction Stormwater Inspection forms until the project is closed out by the regional TDEC office.

14.0 Contractors and Subcontractors Responsibility

All contractors and subcontractors working at the site will be informed of the terms and conditions of the SWPPP and their obligation to follow the plan. In doing so, they agree not to perform their operations counter to the plan without first contacting the primary permittee in order that the necessary adjustments to the SWPPP plan can be made to assure that pollutants are not discharged from the site in the storm water runoff.

15.0 Condensed SWPPP Narrative per General Permit

The contents of this portion of the SWPPP match Section 5.5.1 of the General Permit for Discharges of Stormwater Associated with Construction Activities, Permit Number TNR100000 for consistent reference.

- a. A description of all construction activities at the site, including the intended sequence of activities which disturb soils for major portions of the site (e.g., grubbing, excavation, grading, utilities and infrastructure installation) is presented in the EPSC Plans, Sheet 2, for Suggested Construction Sequence and also in Appendix G. The following lists the construction activities or materials that have the potential to contribute pollutants, including sediment, to stormwater runoff.

Construction Activity and/or Material	Potential Pollutant
Land clearing	Sediment – Total Suspended Solids (TSS), turbidity, oil and grease, Total Petroleum Hydrocarbons (TPH)
Excavation	Sediment – TSS, turbidity, oil and grease, TPH
Drilling	Drilling Fluids
Filling	Sediment – TSS, turbidity, oil and grease, TPH
Grading	Sediment – TSS, turbidity, oil and grease, TPH

- b. The total area that is expected to be disturbed by excavation, grading, filling or other construction activities equals 27 Acres.

- c. A description of the topography of the site, including an estimation of percent slope and delineation of drainage area serving each outfall is as follows: The east side of the project is relatively flat through a powerline corridor. The west side is hilly terrain that parallels I-40. Slope topography varies from 0% to 25%.

Please see the EPSC Plans for drainage areas.

- d. Hydric soils, soil type Ld, Lindell silt loam, have been identified and are clearly denoted in the EPSC Plans. Also, please see Soil Resource Report for Davidson County, Tennessee in Appendix C.
- e. A description of how the runoff will be handled to prevent erosion at the permanent outfall and receiving stream: Silt fence will be installed along the downslope side of the limits of disturbance with silt fence outlets at the low points and where practical. Clear water ditches will be used upstream of the limits of disturbance to route clean water around work zone. Temporary diversion ditches will be used to route all surface water flow around dirt stockpiles. Additional silt fence will be placed on downhill side of stockpiles located on the uphill side of the limits of disturbance. Timber mat bridges, dam and water pump around systems, and matting will be used for river crossings. A temporary railcar bridge will be used to cross the existing wetland in the work zone.
- f. An EPSC Plan with the proposed construction area clearly outlined is provided. The plan indicates the boundaries of the permitted area, drainage patterns, approximate slopes anticipated after major grading activities, areas of soil disturbance, an outline of areas which are not to be disturbed, the location of major structural and nonstructural controls identified in the SWPPP, the location of areas where stabilization practices are expected to occur, streams, and identification on the erosion control plan of outfall points intended for coverage.
- g. This project does not involve discharges associated with industrial activities.
- h. McCrory Creek and Sims Branch are the water bodies on or adjacent to the project. TDEC ARAP Permit Number: NR2204.245 has been submitted.
- i. The water bodies that receive stormwater discharges from the site are McCrory Creek and Sims Branch.
- j. The receiving waters are not identified to contain unavailable parameters for siltation.
- k. The receiving waters are not identified as Exceptional Tennessee Waters.
- l. Buffer zones are clearly identified and outlined on the EPSC Plans.
- m. A description of the construction phasing for projects of more than 50 acres is not applicable to this project.

- n. The timing of the planting of the vegetation cover is presented in Section 8.0 Stabilization within this SWPPP for when permanent or temporary vegetation is to be used as a control measure. Additionally:
 - a. Planting cover vegetation during winter months or dry months should be avoided.
 - b. Contractor must maintain all erosion and sediment controls through the duration of the project until all drainage areas have been stabilized with the establishment of permanent vegetation.