Storm Water Pollution

Prevention Plan (SWPPP)

For

Southbend Crossings

Located on

South Cross Bridges Road

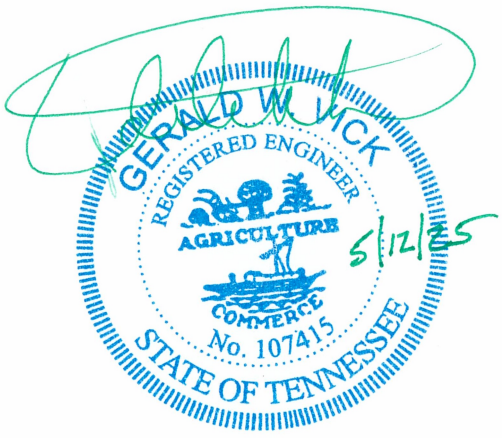
Mt. Pleasant, Tennessee 38474

May 12, 2025

Prepared For:

Brightland Homes of Tennessee, LLC
Barton Creek Plaza III
3815 South Capitol of Texas Highway, Suite 275
Austin, TX 78704

Prepared By:



WES
ENGINEERS & SURVEYORS
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2486 Nashville Highway
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APPENDICES

Southbend Crossings – South Cross Bridges Road, Mt. Pleasant, TN
STORM WATER POLLUTION PREVENTION PLAN

<table>
<tr><th colspan="4">SITE DESCRIPTION</th></tr>
<tr><td>Project Name and Location: (Latitude, Longitude, or Address)</td><td>Southbend Crossings
South Cross Bridges Road
Mt. Pleasant TN 38474
Lat. N 35.54829º
Long. - W -87.21203º</td><td>Owner Name & Address:</td><td>Brightland Homes of Tennessee, LLC
Barton Creek Plaza III, 3815 South Capitol of Texas Highway, Suite 275
Austin, TX 78704
Contact: Andy Davidson</td></tr>
<tr><td>Description: (Purpose and Types of Soil Disturbing Activities)</td><td colspan="3">This project consists of grading and construction of proposed infrastructure improvements for a single-family detached development including stormwater detention, utility infrastructure, and related appurtenances in Mt. Pleasant, Maury County, Tennessee. The site is primarily rolling topography at grades between 1% and 10% on the east side and 15-25% slopes on the west . This site drains primarily to northeast corner of the property to a roadside ditch on Highway 43. Detention is to be provided in surface detention basins as a part of the project.</td></tr>
<tr><td>Runoff Coefficient:</td><td colspan="3">The final runoff coefficient within the construction limits is estimated at 0.54.</td></tr>
<tr><td>Site Area:</td><td colspan="3">The total land area on site is ± 58.71 acres.
The total proposed disturbed area on site is ± 43.83 acres.</td></tr>
<tr><td>303(d) Status:</td><td colspan="3">The site does does drain to tributaries of surface waters designated as water quality limited or high-quality waters due to construction activities as listed on the TDEC Interactive Map (2022 Data).</td></tr>
<tr><td colspan="4">Sequence of Major Activities</td></tr>
<tr><td colspan="2">The order of construction activities will be as follows:
1. Construction of non-excavation work such as installation of silt fences, erosion/siltation control barriers, and rock check dams. Temporary Construction Exit and concrete washout will be maintained at the proposed location.
2. Construction of filter rings and drainage swales.
3. Construction of sediment control facilities.
4. Proposed demolition and grubbing of vegetation from each construction phase in sequence.
5. Proposed excavation & storage of excess topsoil from each phase in sequence.</td><td colspan="2">6. Temporary stabilization (or permanent stabilization of each phase at completion of that phase of construction) of all slopes, ditches, and detention basins.
7. Construction of Proposed Facilities and Site Appurtenances.
8. Final stabilization and dressing of site will be accomplished for each phase of grading & reclamation.</td></tr>
<tr><td>Receiving Waters</td><td colspan="3">The proposed drainage areas are carried via overland flow to existing drainage swales that eventually carry the runoff to Sugar Fork off the property. (as indicated on the USGS Topographic Map included as part of this document).</td></tr>
</table>

SOIL CONDITIONS

The NRCS National Cooperative Soil Survey indicates that the native soil in the proximity of this project is primarily Donerall silt loam (Hydrologic Soil Group C), and Godwin silt loam (Hydrological Soil Group C/D). These soils are characterized as having moderately low runoff potential when thoroughly wet. These types of soils should be effectively treated using the control measures included in the design.

Industrial Activity Discharge	This construction project does not include a discharge associated with an industrial activity.

Threatened or Endangered Aquatic Fauna

No threatened or endangered Aquatic Fauna and/or critical habitat have been identified on the subject property therefore no disturbance is anticipated.

Quality Assurance Site Assessment

As required in section 3.1.2 of the TNCGP, a Quality Assurance of erosion prevention and sediment controls shall be completed by performing a site assessment at the construction site. The site assessment shall be conducted at each outfall involving drainage totaling 10 or more acres or 5 or more acres if draining to impaired or exceptional quality waters within a month of construction commencing at each portion of the site that drains the qualifying acreage of such portion of the site. The site assessment shall be performed by individuals with the following qualifications:

- A licensed professional engineer or landscape architect;
- A Certified Professional in Erosion and Sediment Control (CPESC) or
- A person that successfully completed the "Level II Design Principals for Erosion Prevention & Sediment Control for Construction Sites" course.

The site assessment findings and associated revisions to the SWPPP plans shall be documented and the documentation kept with the SWPPP at the site.

GENERAL INFORMATION

This Storm Water Pollution Prevention Plan (SWPPP) is developed in accordance with the Tennessee General NPDES Permit (TNR# 100,000 issued 09/27/2021) for Storm Water Discharges Associated with Construction Activity (TNCGP) and is prepared using sound engineering practices.

As instructed by Part 6.1 of the TNCGP, the permitee shall retain copies of stormwater pollution prevention plans and all reports required by this permit, and records of all data used to complete the NOI and NOT to be covered by the permit for a period of at least 3 years from the date the notice of termination is submitted. This period may be extended by the written request of the director.

As instructed by Part 7.1 of the TNCGP, the permitee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Tennessee Water Quality Control Act (TWQCA) and is grounds for enforcement action; for permit termination, revocation and reissuance, or modifications; or for denial of permit renewal application.

As instructed by Part 2.4.2 of the TNCGP, the permitee must complete and submit a complete NOI, SWPPP, and an appropriate fee at least 30 days prior to commencement of construction activities to the local Environmental Assistance Center (EAC). Construction will not be initiated prior receipt of a Notice of Coverage (NOC) and written approval by the division staff is received from the Tennessee Department of Environment and Conservation (TDEC).

Current Versions of the 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 the erosion and sediment controls and will be available to the TDEC personnel visiting the site. A notice will be posted near the construction exit containing a copy of the NOC with the tracking number assigned by the EAC, the name and telephone number of a point of contact for the development, the completed site assessment, 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 a copy of the NOI (Appendix A) and will submit it to the local EAC. Any correspondence with TDEC or any EAC will reference the tracking number assigned by TDEC for this project. The primary contractor will submit a Notice of Termination (NOT – Appendix B) after complete installation and successful establishment of final stabilization activities at the site. As instructed by Part 6 of the TNCGP, the permitee shall retain copies of the SWPPP and all reports required by this permit , and records of all data used to complete the NOI and NOT to be covered by this permit for at least 3 years from the date the notice of termination is submitted.

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. The construction activity will be carried out in such a manor 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 for reasons described herein, or for other reasons identified in the process of construction. 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 and any revisions will be maid available to TDEC Department Staff as required in the TNCGP.

Any rock check dams proposed for this project do not meet the definition of “dams” as found in chapter 1200-5-7 of the rules of the Department of Environment and Conservation, Division of Water Supply, concerning the Safe Dam Act of 1973. Therefore, no certificate is required for the construction of the rock check dams.

CONTROLS

Erosion and Sediment Controls

General Control Practices

The erosion prevention and sediment control measures proposed to be incorporated into this project have been designed to contain storm runoff generated by a 2-year, 24-hour & 5-year, 24-hour storm event. When clay and other fine particle soils are found on site or introduced to the site, additional physical or chemical treatment of storm water runoff may be necessary to achieve satisfactory sediment removal. All installed measures are to be maintained throughout the life of the project and shall be cleaned before they become ineffective (clean all silt fences before the siltation exceeds 1/3 the total capacity of the fence). All outfall points will be stabilized using seed with erosion control matting to produce a reduction in outfall velocity. Runoff must be maintained to prevent any objectionable color in the storm water leaving the site.

Stabilization Practices

Pre-Construction vegetative ground cover shall not be destroyed, removed, or disturbed more than 15 days prior to grading and earth moving unless the area is seeded and or mulched of other temporary ground cover is applied. The contractor is encouraged to sequence the construction and only expose the areas to be graded within 15 days of exposure.

Temporary Stabilization - Denuded areas, soil stockpiles, dikes, dams, channels, etc. are to be seeded and mulched or receive seed and Erosion Control Matting as indicated on the Erosion Prevention & Sediment Control Plan. Time of exposure of unprotected soils shall be kept to a maximum of 15 days. If construction activities are temporarily halted in the vicinity of exposed areas and are anticipated to remain halted for more than 15 days, such areas are to receive temporary seed and mulch stabilization within 7 days of stopping construction. Suitable barricades and guards shall be erected to prevent equipment or material from being placed on any planted area. Plastic lining shall be used on all ditches, swales, and slopes that exceed 3:1 or include an elevation change greater than 5-feet when time does not permit the Contractor to use seed and mulch for stabilization within the 7-day period.

Permanent Stabilization - Slope and ditches that are constructed to final subgrade or a portion of any slope or ditch that is constructed to subgrade shall immediately receive final stabilization. All slopes are to receive seed and mulch or sod. All ditches shall receive seed and mulch, sod, or seeding and matting for stabilization as indicated on the construction plans. The Contractor shall be responsible for watering seeded, sodded, and matted areas to prevent the soil from drying out until a good stand of grass is present and the area is approved and accepted. The Contractor shall be responsible for reseeding and resodding bare spots for a period of one year after the owner's acceptance of the project.

Structural Practices

Temporary sediment basins, erosion control barriers (silt fence), rock check dams, and other BMP practices will be used as front-line erosion control devices during construction. Rock check dams are to be constructed as necessary to control storm water runoff. All Erosion and Sediment Control appurtenances are to be maintained until the affected areas have been permanently stabilized. Once permanent stabilization has been achieved, all temporary Erosion and Sediment Control appurtenances are to be removed and the area disturbed by this removal is to be permanently stabilized. See the included Erosion Prevention & Sediment Control Plans for additional information on installation of control, timing, and maintenance. All Best Management Practices included in this SWPPP are to be constructed and maintained following the requirements and recommendations outlined in the current edition of the Tennessee Erosion & Sediment Control Handbook and following the details outlined in the included EPSC Plan.

Storm Water Management
Once construction has been completed for this project, the pervious portions of the site are to be restored to a vegetative state similar to its state prior to construction. Post construction stormwater management is proposed as a part of this project and no pollutants are anticipated to be found in stormwater discharges once the site has been stabilized.

OTHER CONTROLS	
Waste Disposal:	

Waste Materials
All construction waste and trash generated by the Contractor and his Subcontractors shall be collected and stored in a securely covered metal dumpster meeting all local and State Solid Waste Management regulations. Waste material shall be defined as unwanted materials left over from a manufacturing or other man-made process. Such debris shall be cleaned up after each specific job has been completed and at the end of each work week, whichever comes first. No construction waste materials or demolition shall be buried on any property. Any waste material excavated from past construction or demolition shall be disposed of in the same manner after the material has been approved for disposal by the engineer. Such containers shall be emptied at a minimum of once every two weeks or more if necessary, and the trash will be hauled to the local landfill. The Contractor and the Owner's representative shall manage and be responsible for seeing that these procedures are followed.

Hazardous Waste
All hazardous waste materials shall be disposed of as per the local, County and State regulations or following the recommendations of the manufacturer. Any hazardous waste must remain in a sealed container and be removed from the site by the end of the workday. The Contractor and the Owner's representative shall manage and be responsible for seeing that these procedures are followed.

Sanitary Waste
All sanitary waste will be collected from portable units a minimum of one time per week by a licensed sanitary waste management contractor.

Offsite Vehicle Tracking:	

Heavy duty equipment including dump trucks, concrete trucks, semi trailers, and all supply trucks shall access the project site only at the proposed construction exit. The contractor will construct and maintain a sign that indicates the location of the construction exit. A wash station and wash water sedimentation area may be required as part of this construction exit. All paved streets adjacent to the site entrance will be swept as needed to remove any mud, dirt or rock that has been tracked from the site.

Non-Storm Water Discharges
It is expected that the following non-storm water potential discharges can be found on site during the construction period and the installed pollution prevention measures are designed to account for the non-stormwater component of the discharge:

- Storm Line Flushing
- Pavement Wash waters

TIMING OF CONTROLS/MEASURES

As indicated in the Sequence of Major Activities, all corresponding erosion-siltation control measures included in phase 1 of the EPSC Plan shall be constructed in the area of disturbance prior to any clearing or grading activities. Disturbed/Exposed Areas are to be limited to 10.0 acres or less at a time and completed areas are to receive temporary stabilization prior to exposing soil in the subsequent area. Areas where the slopes and/or ditches have been cleared shall receive temporary (or final) stabilization. Unprotected soils shall be stabilized when construction activity temporarily ceases for more than 15 days. Sediment shall be removed from all check dams and erosion-siltation control fence on the site following site clearing and after slopes have been stabilized or at any time that the sediment exceeds 1/3 of the capacity of the structure. After final stabilization has been accomplished in all areas, erosion and sediment control measures can be removed and the disturbed areas are to be stabilized following the same procedures as other areas of the site.

CERTIFICATION OF COMPLIANCE WITH LOCAL REGULATIONS

The SWPPP is designed to reflect Mt. Pleasant, Tennessee erosion & sediment control requirements.

MAINTENANCE/INSPECTION PROCEDURES

Erosion and Sediment Control Inspection and Maintenance Practices

These are the inspection and maintenance practices that will be used to maintain erosion and sediment controls.

- All control measures will be inspected at least twice each week (72 hours apart) and following any storm event of 0.5 inches or greater. Appropriate records of these inspections will be made available on site for review by any department staff visiting the site.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of identification and complete within 7 days.
- Built up sediment will be removed from silt fence and/or check dams when it has reached one-third the height of the structure.
- Silt fence will be inspected for depth of sediment, tears, and to see if the fabric is securely attached to the posts, and to see that the fence posts and fabric flaps are firmly in the ground.
- Sediment will be removed from the sediment basins when the storage zone is one-third full or when re-suspension of sediment is observed.
- Sediment will be removed from the inlet protection devices before the sediment depth exceeds one-half the barrier depth.
- Some removed sediment may contain contaminants of which the Tennessee Department of Environment & Conservation (TDEC) requires special disposal procedures. TDEC, Division of Water Pollution Control can be reached at (615) 532-0625.
- Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth. Complete repairs of these areas following the 24-hour / 7-day schedule.
- A maintenance inspection report will be updated after each inspection. A copy of the reporting form to be completed by the inspector is included in Appendix C of this SWPPP.
- The site superintendent will select two individuals who will be responsible for inspections, maintenance, and repair activities, and filling out the inspection and maintenance report.
- Of those selected for inspection and maintenance responsibilities, each will have completed the Training and Certification Program for Construction Sites and be listed as an EPSC Level I Certified Technician and trained in the inspection and maintenance practices necessary for keeping the erosion and sediment controls used on site in good working order.

INVENTORY FOR POLLUTION PREVENTION PLAN

The materials or substances listed below are expected to be present on-site during construction:

- Stone for EPSC Measures
- Fertilizers
- Concrete
- Petroleum Based Products
- Straw Mulch
- Bituminous Materials
- Cleaning Solvents
- Paints & Silicones

SPILL PREVENTION

Material Management Practices

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff:

Good Housekeeping:	

The following good housekeeping practices will be followed on site during the construction project:

- An effort will be made to store only enough product required to do the job.
- All materials stored on site will be stored in a neat, orderly manner in their appropriate containers.
- Products will be kept in their original containers with the original manufacturer's label.
- Substances will not be mixed with one another unless recommended by the manufacturer.
- Whenever possible, all of a product will be used up before disposing of the container.
- Manufacturers' recommendations for proper use and disposal will be followed.
- The site superintendent will inspect daily to ensure proper use and disposal of materials on site.

Hazardous Products:	

These practices are used to reduce the risks associated with hazardous materials:

- Products will be kept in original containers unless they are not resealable.
- Original labels and material safety data will be retained; they contain important product information.
- If surplus product must be disposed of, manufacturers' or local and State recommended methods for proper disposal will be followed.

SPILL PREVENTION (Continued)

Product Specific Practices

The following product specific practices will be followed on site:

Petroleum Products:	

All on site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used on site will be applied according to the manufacturer's recommendations.

Fertilizers:	

Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

Paints:	

All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system but will be properly disposed of according to manufacturer's instructions or State and local regulations.

Concrete Trucks and Paving Equipment:	

Concrete trucks and paving equipment will not be allowed to wash out or discharge surplus material or drum wash water into streams or ditches. A specific wash location will be designated by the site Superintendent and approved by the engineer. The wash area will be properly protected and contained to prevent runoff of contaminates.

Spill Control Practices

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:

- Manufacturers' recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area on site. Equipment and materials will include but not be limited to absorbent brooms, spill pillows, brooms, dust pans, mops, rags, gloves, goggles, sand, sawdust, and plastic and metal trash containers specifically for this purpose.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated, and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate local and State government agency, regardless of the size.
- Measures will be implemented to prevent this type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the clean up measures will also be included.
- The site Superintendent responsible for the day-to-day site operations, will be the spill prevention and clean-up coordinator. He will designate at least two other site personnel who will receive spill prevention and clean up training. These individuals will each become responsible for a particular phase of prevention and clean up. The names of responsible spill personnel will be posted in the material storage area and in the office trailer on site.

POLLUTION PREVENTION PLAN CERTIFICATION

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.

Signed: _____

Andy Davidson

Print Name

Date: 5/6/25

CONTRACTOR'S CERTIFICATION

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 or 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.

Signature	For	Responsible for
Signed: _____ Date: _____		All Site Construction Activities Included in this Project

Appendix A - 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, 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:		**NPDES Tracking Number: TNR**
Street Address including city or zip code or Location: South Cross Bridges Road Mt. Pleasant, TN 38474		Construction Start Date: Aug 2025
		Estimated End Date: Aug 2027
Site Description: To construct 26 single-family residences with related appurtenances		Latitude (dd.dddd): 35.54829
		Longitude (-dd.dddd): -87.21203
County(ies): Maury	MS4 Jurisdiction (if applicable):	Acres Disturbed: 43.83
		Total Acres: 58.71

Are there any streams ☐ and/or wetlands ☐ 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: N/A

Receiving waters: Sugar Fork off-site

Include the SWPPP with the NOI ■ SWPPP Included | Include a site location map ■ 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)
Brightland Homes of Tennessee, LLC

For corporate entities only, provide the Tennessee Secretary of State (SOS) Control Number: 001390782

Site Owner or Developer Contact Name: (individual responsible for site) Andy Davidson	Title or Position: (the party who signs the certification below): Land Development Project Manager		
Mailing Address: Barton Creek Plaza III, 3815 South Capitol of Texas Highway, Suite 275	City: Austin	State: TX	Zip: 78704
Phone:	E-mail: adavidson@brightlandhomes.com		

Optional Contact Name: Gerald Vick, PE	Title or Position: Consultant Engineer		
Mailing Address: 2486 Nashville Highway	City: Columbia	State: TN	Zip: 38401
Phone: 931-388-2329	E-mail: gerald@wesengineers.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): Andy Davidson	Signature:	Date: 5/6/25

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:

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

Purpose of this form - A completed notice of intent (NOI) must be submitted to obtain coverage under the Tennessee General NPDES Permit for Discharges of Stormwater Associated with Construction Activity (permit). **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.** This permit is required for stormwater 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 appropriate permit 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):

(i) Projects equal to or greater than 150 acres	$10,000
(ii) Projects equal to or greater than 50 acres and less than 150 acres	$6,000
(iii) Projects equal to or greater than 20 acres and less than 50 acres	$3,000
(iv) Projects equal to or greater than 5 acres and less than 20 acres	$1,000
(v) Projects equal to or greater than 1 acre and less than 5 acres	$250
(vi) Projects seeking subsequent coverage under an actively covered larger common plan of development or sale	$100

There is no fee for sites less than 1 acre. A separate annual maintenance fee is also required for construction activities that exceed 1 year under general permit coverage. Tennessee Rules, Chapter 0400-40-11-.02(b)(12)).

Who must submit the NOI form? Per Section 2 of the permit, all site operators must submit an NOI form. "Operator" for the purpose of this permit and in the context of stormwater 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 landowner of the construction site. This person 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 primary permittee, any separate or subsequent NOI submittals must include the site's previously assigned permit tracking number and the project name. The site-wide site-specific SWPPP shall be prepared in accordance with the requirements of part 5 of the permit and must be submitted with the NOI unless the NOI being submitted is to only add a contractor (secondary permittee) to an existing coverage. Artificial entities (e.g., corporations or partnerships excluding entities not required to register) must submit the TN Secretary of State, Division of Business Services, control number. The Division reserves the right to deny coverage to artificial entities that are not properly registered and in good standing with the TN Secretary of State.

Notice of Coverage - The division will review the NOI for completeness and accuracy and prepare a notice of coverage (NOC). Stormwater discharge from the construction site is authorized as of the effective date of the NOC.

Complete the form - Type or print clearly, using ink and not markers or pencil. Answer each item or enter "NA," for not applicable, if a particular item does not fit the circumstances or characteristics of your construction site or activity. 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, a map, and the SWPPP.**

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 geographic information available to describe the location (reference to adjacent highways, roads, and structures, e.g., intersection of state highways 70 and 100). Latitude and longitude (expressed in decimal degrees) of the center of the site can be located on USGS quadrangle maps. The maps can be obtained at the USGS World Wide Web site: http://www.usgs.gov/; latitude and longitude information can be found at numerous other web sites. Attach a copy of a portion of a 7.5-minute topographic map, a city map, or a county 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.

Give name of the receiving waters - Trace the route of stormwater runoff from the construction site and determine the name of the river(s), stream(s), creek(s), wetland(s), lake(s) or any other water course(s) into which the stormwater runoff drains. Note that the receiving 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 water body that the unnamed tributary enters.

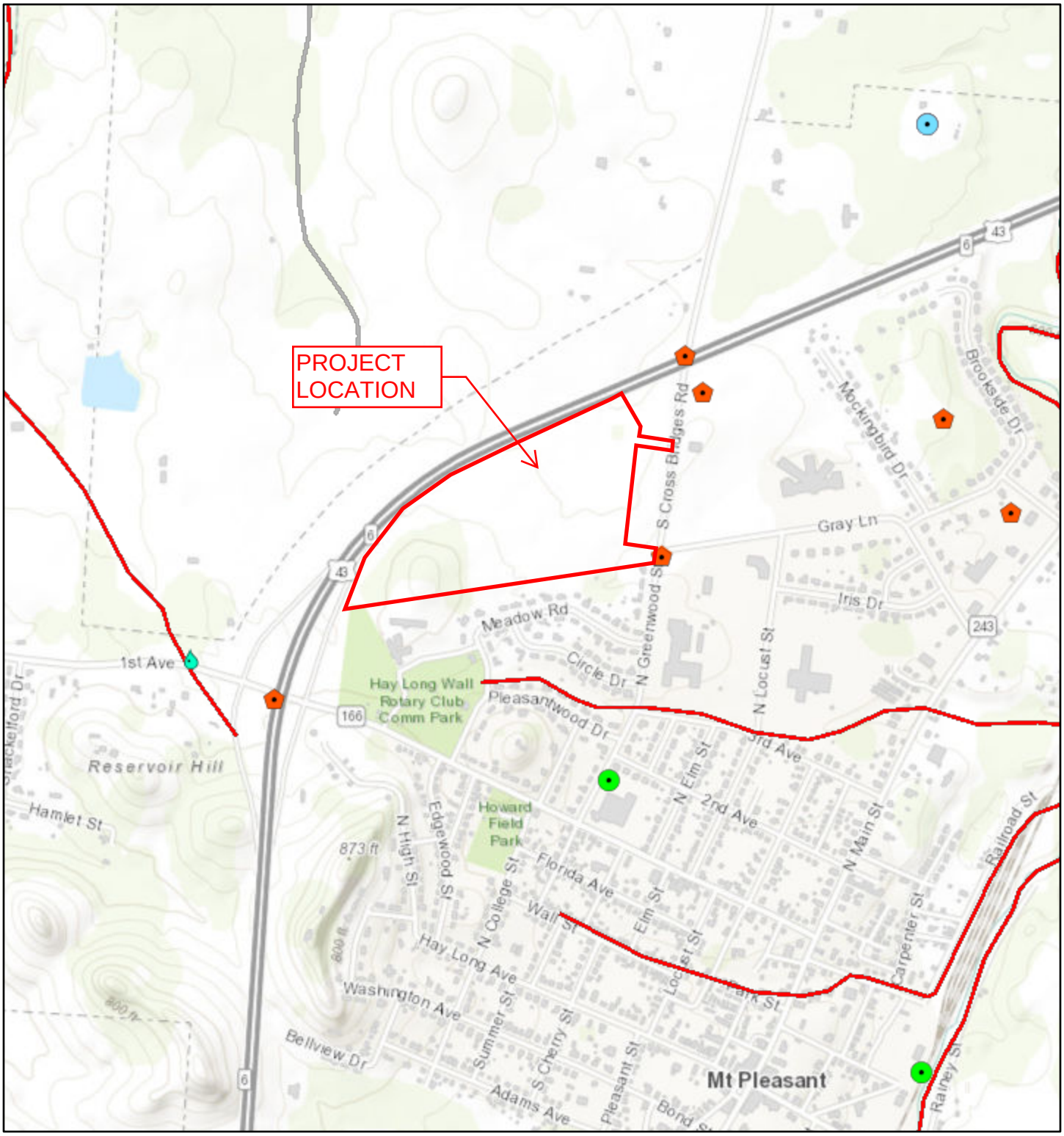
An ARAP may be required - If your work will disturb or cause alterations of a stream or wetland, you must obtain an appropriate Aquatic Resource Alteration Permit (ARAP). If you have a question about the ARAP program, contact your local Environmental Field Office (EFO).

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** or use MyTDEC Forms for electronic submittal.

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 Parkway, Suite 206	37402-2013
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601

Appendix B - Location/Topographic Map

ArcGIS Web Map



5/13/2025, 7:27:08 AM

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Counties

Water Quality Assessment Waterbodies

- Fully Supporting
- Not Assessed
- Not Supporting

Water Quality Assessment

- Fully Supporting
- Fully Supporting (Evaluated)
- Not Assessed
- Not Supporting
- Not Supporting (Evaluated)

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, Rich Cochran

ArcGIS Web AppBuilder

Rich Cochran | Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA |

Appendix C - Storm Water Inspection Report

To be completed and maintained on site

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 (Inspection Form)

Site or Project Name:		**NPDES Tracking Number: TNR**
Primary Permittee Name:		Date of Inspection:
Current approximate <u>disturbed</u> acreage:	Has rainfall been checked/documented daily? ☐ Yes ☐ No	Name of Inspector:
Current weather/ground conditions:	Rainfall total since last inspection:	Inspector's TNEPSC Certification Number:
Site Assessment ☐ Yes ☐ No	Assessor's TN PE registration number:	Assessor's TNEPSC Level II/CPESC number:

Check the box if the following items are on-site:	
☐	Notice of Coverage (NOC)
☐	Stormwater Pollution Prevention Plan (SWPPP)
☐	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 per the current phase?		☐ Yes	☐ No
2.	Are EPSCs functioning correctly at all disturbed areas/material storage areas? (permit section 5.5.3)		☐ 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? (permit section 5.5.3.5 and 6.3.2)		☐ Yes	☐ No
4.	Are EPSCs functioning correctly at ingress/egress points such that there is no evidence of track-out? (permit section 5.5.3.1)		☐ Yes	☐ No
5.	If applicable, have discharges from dewatering activities been managed by appropriate controls? (permit section 4.1.3) If "No," describe below the measure to be implemented to address deficiencies.	☐ N/A	☐ Yes	☐ No
6.	If construction activity at any location on-site has temporarily/permanently ceased, was the area stabilized within 14 days? (permit section 5.5.3.4) If "No," describe below each location and measures taken to stabilize the area(s).	☐ N/A	☐ Yes	☐ No
7.	Have pollution prevention measures been installed, implemented, and maintained to minimize the discharge of pollutants from wash waters, exposure of materials and discharges from spills and leaks per section 4.1.4? If "No," describe below the measure to be implemented to address deficiencies.	☐ N/A	☐ Yes	☐ No

Site or Project Name:	**NPDES Tracking Number: TNR**
Primary Permittee Name:	Date of Inspection:

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. (permit section 1.2.2)	☐ N/A	☐ Yes	☐ No
9.	Have all previous deficiencies been addressed? If "No," describe the remaining deficiencies in the Comments section. ☐ Check if deficiencies/corrective measures have been reported on a previous form.	☐ N/A	☐ Yes	☐ No

Comment Section. If the answer is "No" for any of the above, describe the problem and summarize 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 5.5.3.11 (g) and 8.7.2 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 (Inspection Form)

Purpose of this form / Instructions

An inspection, as described in subsection 5.5.3.9. of the General Permit for Stormwater Discharges from Construction Activities ("Permit"), shall be performed at the specified frequency 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.

Inspections can be performed by:

a) a person with a valid certification from the "Fundamentals of Erosion Prevention and Sediment Control Level I" course,
b) a licensed professional engineer or landscape architect,
c) a Certified Professional in Erosion and Sediment Control (CPESC), or
d) a person who has successfully completed the "Level II Design Principles for Erosion Prevention and Sediment Control for Construction Sites" course.

Qualified personnel, as defined in subsection 5.5.3.10 of the Permit (provided by the permittee or cooperatively by multiple permittees) shall inspect disturbed areas of the construction site that have not been permanently 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 5.5.1 of the Permit and pollution prevention measures identified in the SWPPP in accordance with section 5.5.2 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 D - Notice of Termination (NOT)

To be completed and submitted to the local EAC when all construction and stabilization activities have been completed and stabilization measures are effective, or if the operator's responsibilities at this site have ended.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
DIVISION OF WATER RESOURCES (DWR)
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. Specifically, this means that all disturbed soils at the portion of the construction site where the operator had control have been permanently 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. Submission of this form shall in no way relieve the permittee of permit obligations required prior to submission of this form.

Submit this form to the local DWR Environmental Field Office (EFO) address (see table below) or using MyTDEC Forms electronic submittal process. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC).

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: (check only one)

☐	Primary permittee termination: all requirements for termination under Permit Part 9.1.1. a) through c) have been met. This includes, but is not limited to, for areas the primary permittee has control all earth-disturbing activities at the site are complete and permanent stabilization as defined in Part 10 of the CGP has been achieved. (attach photo documentation)
	When applicable, and you are a primary permittee seeking termination, list who is responsible for ongoing maintenance of stormwater controls left on the site subject for long-term use following termination of coverage:
☐	Secondary permittee termination: all requirements for termination under Permit Part 9.2.1. have been met (no longer an operator at the construction site).

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

Appendix E - Stabilization Plan & Soil Information

Stabilize disturbed areas using seed mixtures indicated in the appropriate table below:

Temporary Seeding Mixtures

Seeding Dates	Grass Seed	Percentages
February 1 to July 1	Kentucky 31 Fescue	80%
	Korean Lespedeza	15%
	English Rye	5%
June 1 to August 15	Kentucky 31 Fescue	55%
	English Rye	20%
	Korean Lespedeza	15%
	German Millet	10%
April 15 to August 15	Bermuda grass (hulled)	70%
	Annual Lespedeza	30%
August 1 to December 1	Kentucky 31 Fescue	70%
	English Rye	20%
	White Clover	10%
February 1 to December 1	Kentucky 31 Fescue	70%
	Crown Vetch	25%
	English Rye	5%

Permanent Seeding Mixtures

Seeding Dates	Grass Seed	Percentages
January 1 to May 1	Italian Rye	33%
	Korean Lespedeza	33%
	Summer Oats	34%
May 1 to July 15	Sudan - Sorghum	100%
May 1 to July 15	Starr Millet	100%
July 15 to January 1	Balboa Rye	67%
	Italian Rye	33%

In areas of 3:1 or steeper slope that exceed 5-feet in uninterrupted vertical elevation change will receive North American Green SC150 Erosion Control Mat seeded for stabilization (temporary or permanent). In areas were rip-rap will be installed, install with Amoco Propex 4535 Non-Woven Fabric (or equivalent).

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Maury County, Tennessee

May 6, 2025

Custom Soil Resource Report
Soil Map

Map Scale: 1:4,650 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 200 400 800 1200

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 1:20,000.

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: Maury County, Tennessee
Survey Area Data: Version 19, Sep 12, 2024

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

Date(s) aerial images were photographed: Mar 20, 2021—Jun 14, 2021

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
Ae	Armour silt loam, eroded gently sloping phase	4.5	7.5%
Ag	Armour silt loam, 5 to 12 percent slopes	3.2	5.4%
Bm	Burgin silt loam, phosphatic phase (Eagleville)	0.0	0.0%
Df	Donerail silt loam, gently sloping phase	21.4	36.2%
Ga	Godwin silt loam	13.5	22.8%
Mb	Maury silt loam, eroded gently sloping phase	0.2	0.3%
Me	Maury silty clay loam, eroded sloping phase	0.2	0.4%
Mo	Mimosa silty clay loam, 5 to 12 percent slopes, eroded	8.4	14.2%
Rd	Rockland, Mimosa and Inman materials, sloping	7.9	13.3%
Totals for Area of Interest		**59.2**	**100.0%**

Maury County, Tennessee

Ae—Armour silt loam, eroded gently sloping phase

Map Unit Setting

National map unit symbol: kq4h
Elevation: 450 to 700 feet
Mean annual precipitation: 46 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 190 to 200 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Armour and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Armour

Setting

Landform: Hillslopes
Landform position (three-dimensional): Base slope
Parent material: Silty alluvium and/or loamy alluvium over clayey residuum weathered from phosphatic limestone

Typical profile

H1 - 0 to 14 inches: silt loam
H2 - 14 to 40 inches: silty clay loam
H3 - 40 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: High (about 10.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: B
Ecological site: F123XY004TN - Deep Loamy Terraces And Depressions
Hydric soil rating: No

Ag—Armour silt loam, 5 to 12 percent slopes

Map Unit Setting

National map unit symbol: 2td32

Elevation: 500 to 850 feet
Mean annual precipitation: 48 to 58 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 190 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Armour and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Armour

Setting

Landform: Stream terraces
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Base slope, tread
Down-slope shape: Concave, convex
Across-slope shape: Linear, convex
Parent material: Silty alluvium over clayey residuum weathered from phosphatic limestone

Typical profile

A - 0 to 19 inches: silt loam
Bt - 19 to 58 inches: silty clay loam
BC - 58 to 79 inches: clay

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 11.6 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: F123XY004TN - Deep Loamy Terraces And Depressions
Hydric soil rating: No

Minor Components

Byler

Percent of map unit: 4 percent
Landform: Stream terraces
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Base slope, tread
Down-slope shape: Concave, convex
Across-slope shape: Linear, convex
Hydric soil rating: No

Dellrose

Percent of map unit: 4 percent
Landform: Hillsides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Mimosa

Percent of map unit: 2 percent
Landform: Escarpments
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave, convex
Across-slope shape: Linear, convex
Hydric soil rating: No

Bm—Burgin silt loam, phosphatic phase (Eagleville)

Map Unit Setting

National map unit symbol: kq51
Elevation: 610 to 2,090 feet
Mean annual precipitation: 48 to 63 inches
Mean annual air temperature: 45 to 72 degrees F
Frost-free period: 154 to 189 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Eagleville and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Eagleville

Setting

Landform: Flood plains
Landform position (three-dimensional): Tread
Parent material: Clayey alluvium derived from limestone

Typical profile

H1 - 0 to 14 inches: silt loam
H2 - 14 to 35 inches: clay
R - 35 to 45 inches: bedrock

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Somewhat poorly drained
Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: About 12 to 18 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: D
Ecological site: F123XY005TN - Floodplains
Hydric soil rating: No

Df—Donerail silt loam, gently sloping phase

Map Unit Setting

National map unit symbol: kq5l
Elevation: 610 to 820 feet
Mean annual precipitation: 46 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 190 to 200 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Donerail and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Donerail

Setting

Landform: Hillslopes
Landform position (three-dimensional): Crest
Parent material: Clayey alluvium derived from limestone

Typical profile

H1 - 0 to 10 inches: silt loam
H2 - 10 to 20 inches: silty clay loam
H3 - 20 to 40 inches: silty clay
H4 - 40 to 60 inches: silty clay

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 18 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: High (about 10.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C
Ecological site: F123XY004TN - Deep Loamy Terraces And Depressions
Hydric soil rating: No

Ga—Godwin silt loam

Map Unit Setting

National map unit symbol: kq66
Elevation: 600 to 1,000 feet
Mean annual precipitation: 46 to 54 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 190 to 220 days
Farmland classification: Prime farmland if protected from flooding or not frequently flooded during the growing season

Map Unit Composition

Godwin and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Godwin

Setting

Landform: Hillslopes
Landform position (three-dimensional): Base slope
Parent material: Clayey alluvium derived from limestone

Typical profile

H1 - 0 to 18 inches: silt loam
H2 - 18 to 30 inches: silty clay loam
H3 - 30 to 60 inches: clay

Properties and qualities

Slope: 0 to 6 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: About 12 to 24 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Available water supply, 0 to 60 inches: High (about 10.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: C/D
Ecological site: F123XY005TN - Floodplains
Hydric soil rating: No

Mb—Maury silt loam, eroded gently sloping phase

Map Unit Setting

National map unit symbol: kq72
Elevation: 540 to 930 feet
Mean annual precipitation: 46 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 190 to 200 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Maury and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Maury

Setting

Landform: Hillslopes
Landform position (three-dimensional): Crest
Parent material: Loess over clayey residuum and/or alluvium derived from limestone

Typical profile

H1 - 0 to 14 inches: silt loam
H2 - 14 to 26 inches: silty clay loam
H3 - 26 to 40 inches: silty clay
H4 - 40 to 60 inches: clay

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: High (about 11.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: A
Ecological site: F123XY001TN - Limestone Uplands
Hydric soil rating: No

Me—Maury silty clay loam, eroded sloping phase

Map Unit Setting

National map unit symbol: kq75
Elevation: 560 to 890 feet
Mean annual precipitation: 46 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 190 to 200 days
Farmland classification: Not prime farmland

Map Unit Composition

Maury and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Maury

Setting

Landform: Hillslopes
Landform position (three-dimensional): Side slope
Parent material: Loess over clayey residuum and/or alluvium derived from limestone

Typical profile

H1 - 0 to 16 inches: silty clay loam
H2 - 16 to 40 inches: silty clay
H3 - 40 to 60 inches: clay

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: High (about 10.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: A
Ecological site: F123XY001TN - Limestone Uplands
Hydric soil rating: No

Mo—Mimosa silty clay loam, 5 to 12 percent slopes, eroded

Map Unit Setting

National map unit symbol: 2v640
Elevation: 460 to 1,160 feet
Mean annual precipitation: 48 to 58 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 190 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Mimosa and similar soils: 78 percent
Minor components: 22 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mimosa

Setting

Landform: Escarpments
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Clayey residuum weathered from limestone

Typical profile

Ap - 0 to 6 inches: silty clay loam
Bt - 6 to 50 inches: clay
C - 50 to 55 inches: clay
R - 55 to 65 inches: bedrock

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: 39 to 59 inches to lithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 9.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: F123XY001TN - Limestone Uplands
Hydric soil rating: No

Minor Components

Dellrose

Percent of map unit: 8 percent
Landform: Hillsides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Armour

Percent of map unit: 7 percent
Landform: Stream terraces
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope, tread
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Gladdice

Percent of map unit: 4 percent
Landform: Escarpments
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Ashwood

Percent of map unit: 3 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Rd—Rockland, Mimosa and Inman materials, sloping

Map Unit Setting

National map unit symbol: kq7v
Elevation: 500 to 1,100 feet
Mean annual precipitation: 48 to 54 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Rock outcrop: 40 percent

Mimosa and similar soils: 30 percent
Inman and similar soils: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rock Outcrop

Typical profile

R - 0 to 10 inches: bedrock

Description of Mimosa

Setting

Landform: Hillslopes
Landform position (three-dimensional): Crest
Parent material: Clayey residuum weathered from limestone

Typical profile

H1 - 0 to 6 inches: silt loam
H2 - 6 to 20 inches: clay
H3 - 20 to 55 inches: clay
R - 55 to 65 inches: bedrock

Properties and qualities

Slope: 3 to 12 percent
Depth to restrictive feature: 40 to 60 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: F123XY001TN - Limestone Uplands
Hydric soil rating: No

Description of Inman

Setting

Landform: Hillslopes
Landform position (three-dimensional): Crest
Parent material: Clayey residuum weathered from limestone and shale

Typical profile

H1 - 0 to 6 inches: flaggy silty clay loam
H2 - 6 to 32 inches: flaggy clay
Cr - 32 to 42 inches: bedrock

Properties and qualities

Slope: 3 to 12 percent
Depth to restrictive feature: 20 to 39 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)

Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: F123XY001TN - Limestone Uplands
Hydric soil rating: No

Appendix F - Sediment Control Basin & Runoff Calculations

Sediment Pond A: 33.38 Acres
Required Wet Storage: 60,384 C.F.
Required Dry Storage: 60,384 C.F.

Wet Storage Depth 2.5 FT Q_2 47.57 CFS
Dry Storage Depth 2.5 FT

Width = 90 FT Surface Area = 24300 SQ. FT.
Length = 270 FT 0.56 Acres

Required = 0.48

Sediment Trap C: 1.45 Acres
Required Wet Storage: 6 2,623 C.F.
Required Dry Storage: 2,623 C.F.

Wet Storage Depth 2 FT Q_2 2.07 CFS
Dry Storage Depth 2 FT

Width = 21 FT Surface Area = 1323 SQ. FT.
Length = 63 FT 0.03 Acres

Required = 0.02

Sediment Pond B: 9.00 Acres
Required Wet Storage: 16,281 C.F.
Required Dry Storage: 16,281 C.F.

Wet Storage Depth 2.5 FT Q_2 12.83 CFS
Dry Storage Depth 2.5 FT

Width = 47 FT Surface Area = 6627 SQ. FT.
Length = 141 FT 0.15 Acres

Required = 0.13

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	83.96	2	724	262,845	------	------	------	To Sediment Pond A
2	Reservoir	26.71	2	742	262,844	1	651.32	113,561	Outfall Sediment A
4	SCS Runoff	25.45	2	720	66,011	------	------	------	To Sediment Pond B
5	Reservoir	19.82	2	726	66,007	4	658.46	15,382	Outfall Sediment B

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	110.95	2	724	349,213	------	------	------	To Sediment Pond A
2	Reservoir	44.77	2	738	349,212	1	651.95	142,019	Outfall Sediment A
4	SCS Runoff	34.87	2	720	90,445	------	------	------	To Sediment Pond B
5	Reservoir	29.75	2	724	90,441	4	658.77	17,982	Outfall Sediment B

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	132.13	2	724	418,079	------	------	------	To Sediment Pond A
2	Reservoir	57.77	2	738	418,078	1	652.44	165,482	Outfall Sediment A
4	SCS Runoff	42.37	2	720	110,209	------	------	------	To Sediment Pond B
5	Reservoir	36.88	2	724	110,205	4	659.01	19,916	Outfall Sediment B

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	161.58	2	724	515,236	------	------	------	To Sediment Pond A
2	Reservoir	91.12	2	736	515,235	1	652.95	190,054	Outfall Sediment A
4	SCS Runoff	52.91	2	720	138,389	------	------	------	To Sediment Pond B
5	Reservoir	45.74	2	724	138,385	4	659.32	22,770	Outfall Sediment B

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	184.68	2	724	592,426	------	------	------	To Sediment Pond A
2	Reservoir	125.44	2	732	592,425	1	653.22	203,321	Outfall Sediment A
4	SCS Runoff	61.24	2	720	160,961	------	------	------	To Sediment Pond B
5	Reservoir	53.44	2	724	160,956	4	659.56	25,029	Outfall Sediment B

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	208.68	2	724	673,427	------	------	------	To Sediment Pond A
2	Reservoir	158.36	2	732	673,426	1	653.42	213,284	Outfall Sediment A
4	SCS Runoff	69.93	2	720	184,779	------	------	------	To Sediment Pond B
5	Reservoir	62.65	2	724	184,774	4	659.76	26,884	Outfall Sediment B

Appendix G - Erosion Prevention & Sediment Control Plans