

STORM WATER POLLUTION PREVENTION PLAN

Prepared for:

Crossville Aquatic Center

Prepared by:

Civil Engineering and Surveying, LLC

October 2024

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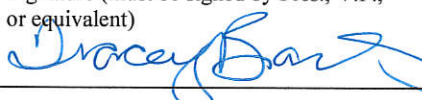
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General Information

This Storm Water Pollution Prevention Plan (SWPPP) is developed in accordance with the Tennessee General NPDES Permit (TNR100000) for Storm Water Discharges Associated with Construction Activity (TNCGP) and is prepared using sound engineering practices. All measurements and specification for each detail are consistent with the latest version of the Tennessee Erosion and Sediment Control Handbook (August 2012). Civil Engineering and Surveying, LLC personnel involved with the development of this plan have completed the *Design of Vegetative and Structural Measures for Erosion Prevention and Sediment Control* course available from the State of Tennessee.

As instructed by Part III.F of the TNCGP, this plan and all attachments are hereby submitted to the local Environmental Assistance Center (EAC), along with the complete, correctly signed Notice of Intent (NOI). Construction will not be initiated prior to receipt of a Notice of Coverage (NOC) from the Tennessee Department of Environment and Conservation (TDEC).

Owner/Developer: Sports Authority of the City of Crossville
 Tracy Barnes, Sports Authority Chair
 392 North Main Street
 Crossville, TN 38555

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted 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 for knowing violations.		
Representative of the owner/developer and Title; print or type Tracy Barnes	Signature (must be signed by Pres., V.P., or equivalent) 	Date 1-9-25

General Contractor:

The general contractor for this project has not been selected. Once the contractor has been selected, he will be required to sign the NOI and SWPPP, install and maintain all BMP's for the project and amend this SWPPP as necessary to prevent sediment from leaving the site.

I certify under penalty of law that I have reviewed this document and any attachments. Based on my inquiry of the construction site owner/developer identified above, and/or my inquiry of the person directly responsible for assembling this Storm Water Pollution Prevention Plan, I believe the information submitted is accurate. I am aware that this Plan, 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.		
Representative of the owner/developer and Title; print or type	Signature (must be signed by Pres., V.P., or equivalent)	Date

The Contractor will display current versions of this SWPPP, the NOI, and the NOC on the site for the duration of the project. These items will be available for the use of all operators and site personnel involved with erosion and sediment controls and will be available to TDEC personnel visiting the site. The SWPPP shall be posted along with the Notice of Coverage (NOC) on a job board located at or near the construction entrance. The postings shall include the tracking number assigned by the EAC, the name and telephone number of a contact person for the development, and a brief description of the project.

The contractor shall designate who is responsible for any activities related to the construction activities for the site. The responsibilities can be assigned to one individual or can be distributed through various parties. A construction site assessment of the SWPPP shall be performed in accordance with part 3.1.2 of the Tennessee Construction General Permit within one month of construction commencement.

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 and will submit it to the local EAC. Any correspondence with TDEC or any EAC will reference the tracking number assigned by TDEC to the project. The facility will be constructed in phases, Initial Stabilization, Construction Stabilization and Final Stabilization. The Contractor(s) will submit a letter to TDEC after the Final Stabilization phase has been completed, requesting a release from the NOI. A new NOI Permit will be submitted prior to any building construction.

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 manner as will prevent any discharge that would cause a condition in which visible solids, bottom deposits, or turbidity impairs the usefulness of the waters on the property or downstream of the property for fish and aquatic life, livestock watering and wildlife, recreation, irrigation, navigation, or industrial or domestic water supply. All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications (where applicable) and good engineering practice.

If sediment escapes the construction site, off-site accumulations of sediment that have not reached a stream must be removed at a frequency sufficient to minimize offsite impacts (e.g., fugitive sediment that has escaped the construction site and has collected in the street must be removed so that it is not subsequently washed into storm sewers and streams by the next rain and/or so that it does not pose a safety hazard to users of public streets). Permittees shall not initiate remediation/restoration of a stream without consulting the division first. This permit does not authorize access to private property. Arrangements concerning removal of sediment on adjoining property must be settled by the permittee with the adjoining landowner.

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This plan may be amended for reasons described below or other reasons. 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.

Existing Site Conditions

The property is located on to the south of Livingston Rd., between Keyes St. and North Main St. in Crossville, Tennessee. The property is bounded by Livingston Rd. to the north, North Main Street to the east, TriGreen Equipment to the southeast, Keyes St. to the northeast, and railroad along the southern-southwestern border. The subject property is approximately 8.3 acres containing moderately sloped open land, with 1.5 acres of impervious lot situated along the central to northeastern portion. The property is currently accessed off Livingston Rd. The site generally slopes from the north towards the southeast. Runoff for the entire site appears to discharge overland to the southern property line. Past the southern property line, it appears that runoff collects in a ditch along the rail line, flowing southeasterly until reaching a culvert which runs under the rail line. Following discharge from the culvert, runoff routes to Town Branch, which has not been assessed for sedimentation impairment. Due to Town Branch having no assessment, it is to be treated as an impaired waterway and this SWPPP has been designed for a 10-year storm to accommodate. There are also hydrologic features on site. There is a centrally located wetland, which will not be disturbed during the construction of this site. There is also a stream located along the southwestern property line which an ARAP has been submitted for by MRW Environmental.

Project Description

The proposed project consists of the stripping of topsoil, construction of detention ponds, accesses, the realignment of Livingston Rd., grading of the site, construction of the new aquatic center, utilities, parking, etc. As soon as all grading activities have been completed, the lawn areas will be stabilized with topsoil, seed and mulch, erosion control blankets, or sod. The construction will disturb approximately 8.92 acres. Additional fill material from off-site is not anticipated; however, should fill material be required, it shall be borrowed from a permitted site. If the site is used solely by the project outlined in this plan, the site is considered to be part of this project. This plan must be amended to include the borrow site and the erosion prevention and sediment control at that location will also be the responsibility of the contractor. Waste material, if any, shall be wasted on site.

Runoff

This project will impact the entirety of the property. Runoff will be directed southeast after the majority is collected in two detention ponds located along the southern property line. This route for runoff mimics the current state of runoff for the property. Storm-water runoff will increase due to the increase due to the increase in impervious area: therefore, a detention pond has been designed for the site to prevent an increase in runoff rate. The site will bypass 0.72 acres of impervious areas, 0.20 acres of roof drainage

discharging at the eastern property line, and 0.52 acres of road runoff that mimics the existing discharge routes. This bypass of impervious area will be less than the 1.5 acres (being removed) of impervious parking lot. This site will experience six outfall locations.. Beyond these six outfall locations, all runoff will be via sheet flow. See sheet C4-2 for outfall locations and drainage areas.

The existing runoff rate for the limits of disturbance of this project for a 10-year storm event is 28.87 cfs. Post-construction runoff rate including routing through the detention ponds and bypass will be 19.05 cfs.

Spills and Non-Storm Water Contingencies

All fueling of equipment and vehicles on site will be conducted near the construction entrance/staging area off Livingston Road. Any spillage will be removed immediately. Contaminated soils will be placed on heavy plastic and covered or placed into approved containers to prevent contact with storm water. All fuel tanks will be in the containment area. Oils, other vehicle fluids, paints, and solvents will be stored in the construction trailer. Any spill in excess of two (2) gallons will be reported to a representative of the general contractor.

If a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period, the contractor will immediately notify the permittee who shall then do the following: notify the National Response Center (NRC) (800-424-88023) and the Tennessee Emergency Management Agency (TEMA) (emergencies: 800-262-3300; non-emergencies: 800-262-3400); as well as the local Environmental Assistance Center. Also, the General Contractor will prepare a revision of this document to identify measures to prevent the reoccurrence of such releases.

Construction Sequencing

Pre-construction vegetation shall not be disturbed more than 10 days prior to any excavating activities. All erosion prevention and sediment control best management practices (BMP's) identified in this SWPPP, including drawings, shall be installed as recommended in the Tennessee Erosion and Sediment Control Handbook. BMP locations are illustrated on Sheets C4-1 and C4-2. The BMP's shown are a minimum. The contractor shall add BMP's as necessary to prevent sediment from leaving the site.

Land-disturbing activity at the project site will begin with Phase 1, Pre-Construction. This phase will begin with the establishment of the construction entrance/exit and construction access drive. The contractor will ensure that a proper construction entrance is equipped with course gravel per the Tennessee Erosion and Sediment Control Handbook Construction Exit detail. After the entrance has been established, the

perimeter silt fence, as shown on the drawing, shall be installed. A double row of silt fence shall be installed ten feet outside of the wetland on-site. The wetland is not to be disturbed. MRW Environmental has submitted an ARAP for the stream on-site.

Phase 2, Construction Phase, shall include mass grading, construction of utilities including storm sewer. Contractor shall install inlet protection as structures are installed as well as wattles and rock check dams in concentrated flow areas. The Best Management Practices (BMP's) shown are a minimum. The contractor shall install more BMP's to prevent sediment loss as necessary as construction progresses. Pre-construction BMP's shall be reviewed and maintained per required inspections.

Phase 3, Final Stabilization shall be installed per the drawing as soon as possible after finished grade has been established. In grassed areas, the contractor shall install topsoil, seed, fertilizer and mulch. Areas with steeper slopes than 4:1, as shown on the drawing, shall receive erosion control blanket in lieu of mulch. Erosion control blankets in ditch lines shall be staked. All other grassed areas may be mulched. Steep slopes (greater than or equal to 35%) shall be stabilized no later than 7 days after construction activity on these slopes has temporarily or permanently ceased.

Detention/sediment ponds shall be pumped dry with the use of a sediment bag or other BMP. The ponds shall be mucked to final grade. The temporary outlet shall be removed, and the sand filter system installed per the detention outlet detail.

Stabilization will be accomplished as soon as practicable after attainment of final grade and no later than seven (7) days after attaining final grade. Steep slopes (greater than or equal to 35%) shall be stabilized no later than 7 days after construction activity on these slopes has temporarily or permanently ceased. Where earth-disturbing activity has temporarily ceased, temporary stabilization will be applied within seven days. If the activity will not resume within 15 days, the area shall receive temporary seeding. The dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated will be recorded and maintained on the site. A construction site assessment of the SWPPP shall be performed in accordance with part 3.1.2 of the Tennessee Construction General Permit within one month of construction commencement.

Maintenance

The contractor shall remove sediment from silt fences, check dams, etc. before the design capacity of the structure has been reduced by 50%. Litter, construction debris, and construction chemicals exposed to storm water will be picked up prior to anticipated storm events (e.g. forecasted by local weather sources), or otherwise prevented from becoming a pollutant source for storm water discharges (e.g. screening outfalls, daily pick, etc.) After use, silt fences will be removed or otherwise prevented from becoming a pollutant source for storm water discharges. Temporary measures may be removed at the beginning of the workday but will be replaced at the end of the workday.

The contractor will remove muddy water from the site by pumping to a filter bag; sediment basin and/or sediment trap per the Tennessee Erosion and Sediment Control Handbook. Contractor shall treat runoff as to not release discolored water from the site.

Inspections

BMP inspections shall be performed at least twice every calendar week at least 72 hours apart and before anticipated rain events. The Contractor must provide a qualified person, with a minimum of TNEPSC Level One Certification, to inspect the BMP's. Inspections will include all disturbed areas, sediment control structures, outfall points and streams located on site. Inspections will be properly documented according to the requirements of section 3.5.8.2 of the TNCGP. If inspections find that maintenance (i.e. failure of control or improper installation is required, action to correct must be taken before the next storm event but no later than 7 days after the identification. If inspection find that controls are properly installed maintained but provide inadequate protection, the project engineer shall modify the SWPPP within 7 days of identification. These changes shall be implemented on site within 14 days. Inspector shall maintain a rain gauge on site.

Where site or portions of the site have been temporarily stabilized, or runoff is unlikely due to winter conditions, such inspections only have to be conducted once a month until thawing results in runoff or construction activity resumes. Inspection requirements do not apply to definable areas that have been finally stabilized. Written notification of the intent to conduct only monthly inspections and the justification for such request must be submitted to TDEC.

Inspections must be documented and include the scope of the inspection, name and title of the inspector(s), the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan (including location(s) of discharges of sediment or other pollutants from the site and of any control device that failed to operate as designed or proved inadequate for a particular location). Inspection documentation will be maintained on site and made available upon request. Inspection reports must be submitted to the division within 10 days of the request.

This SWPPP has been designed for a 10-year storm event.

