

**1.0 Project Description**

This Storm Water Pollution Prevention Plan was prepared by Intuition & Logic for Dardenne Creek Blueway. The above referenced work is being undertaken for St. Charles County Parks Department. The scope of the land disturbance is limited to the minimum disturbance necessary for the construction of the access ramp, trail, grade control, and bank stabilization.

A copy of the state and county land disturbance permit, approved SWPPP and all amendments, results of any monitoring and analysis and all site inspection reports shall be maintained on-site, in a location that is readily available until final stabilization is achieved.

Section 404/401 permits are required for this project.

Industrial activities such as asphalt or concrete batch plants are not anticipated on this site.

No non stormwater discharges are anticipated at this site.

Dewatering: Dewatering is not anticipated for this site. Dewatering, if needed, shall use a sediment capture bag on the end of the discharge hose. Discharge shall be directed onto a shallow sloped grassed area to encourage infiltration of the discharged water. Discharge of untreated dewatering activities is prohibited.

The Contractor's onsite representative shall be responsible for the performance and maintenance of the SWPPP. In addition, the undersigned Contractor assures that all City and St. Charles County property or roads will be adequately protected and restored.

The permittee shall:

- (1) Notify all contractors and other entities who will perform work at the site, of the existence of the SWPPP and what actions or precautions shall be taken while on site to minimize the potential for erosion and the potential for damaging any BMP;
- (2) Establish training programs to ensure that all site workers have been trained, as a minimum, in erosion control, material handling and storage, and housekeeping;
- (3) Provide copies of the SWPPP to all parties who are responsible for installation, operation or maintenance of any BMP;
- (4) Maintain a current copy of the SWPPP on the site at all times.

Any land clearing, construction, or development involving the movement of earth shall be in accordance with the Storm Water Pollution Prevention Plan, and the person issued a Land Disturbance Permit assumes and acknowledges responsibility for compliance with the St. Charles County Land Disturbance Code provisions of the Storm Water Pollution Prevention Plan.

Prior to any Land Disturbance Activity, a land disturbance permit from St. Charles County Department of Public Works will be required.

It is the contractors responsibility to ensure that all work completed on-site is completed per all conditions of the relevant permits.

**1.1 Land Disturbance Quantities and Site Address**

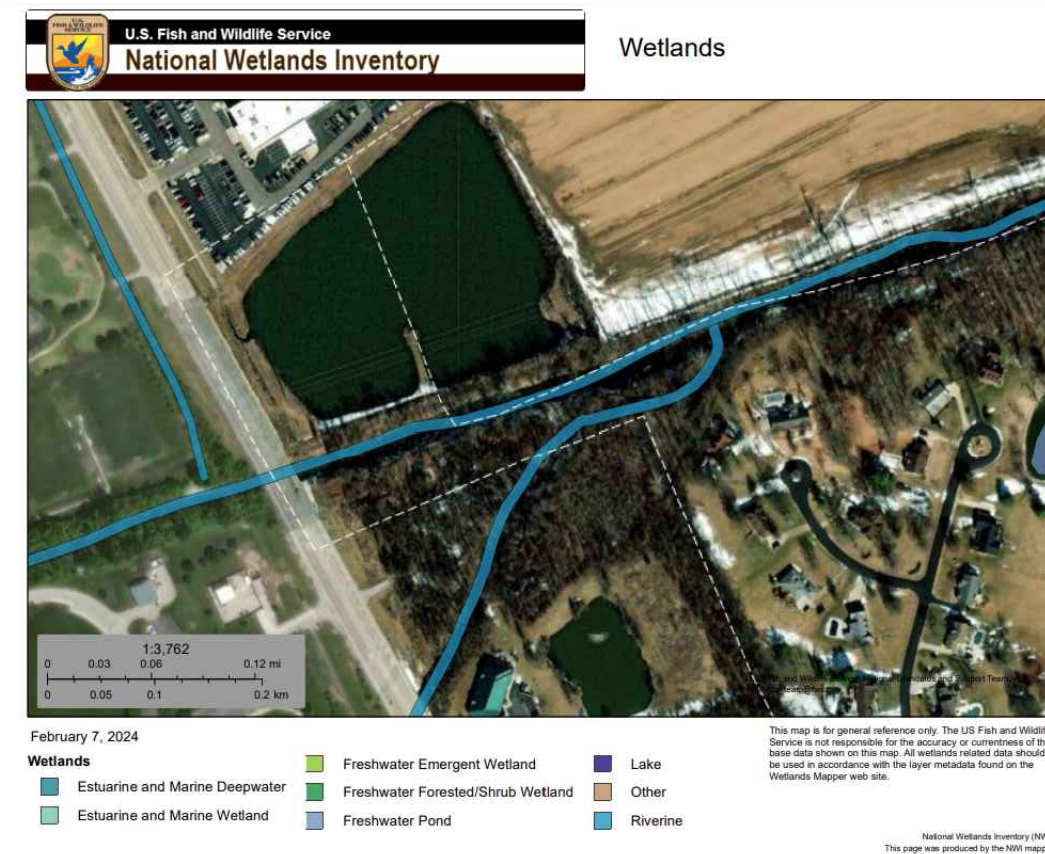
The total area disturbed is as follows: 0.79 acres

**1.2 Site Address**

49 Sports Park Drive  
O'Fallon, MO 63368  
Parcel Number: 2-0128-01696-00-0003.1 and 2-0128-1696-00-0003.11

**2.0 Existing Site Conditions and Location Descriptions**

The project area occurs within Township 47N Range 3E on Highway K.



The major Hydrologic Unit Area within which the project occurs is Dardenne Creek. A site vicinity map is included on Cover.

**2.1 Existing and Proposed Contours Map**

See Sheet C-301.

**2.2 Site Drainage Patterns**

There is no anticipated change in the drainage patterns from before to after the land disturbance activity.

**2.3 Site Runoff Coefficients**

Existing: CN = 86  
Proposed: CN = 86

**3.0 Adjacent Areas**

The project site is located in a public park. The site is located near a agricultural property and Dardenne Creek.

**4.0 Off-site Borrow/Spoil Sites**

Based on the cut and fill quantities, there will be a net Cut of 5,393 CY. Spoil site will be determined by the contractor.

**4.1 SWPPP Amendment Required for off-site spoils disposal.**

The contractor is responsible for identifying the location for the off-site disposal of spoils materials. The identification of the off-site spoils disposal site will require the contractor to amend this SWPPP and the Land Disturbance Permits as appropriate to include its location in the SWPPP.

**The estimated grading quantities are as follows:**

Total Cut: 5,393 CY  
Total Fill: 0 CY

**5.0 Soils and Critical Areas Map**



Historic properties and endangered species - no historic properties were identified on this site. The existing site is a vacant lot. The proposed improvements will not affect any endangered species.

**6.0 Construction Sequence**

- Installation of Sediment & Erosion Control BMPs.
- Clearing and Grubbing
- Rough Grading
- Construction of Underground Infrastructure
- Construction of Structures, such as Buildings, Pavement, Retaining Walls
- Final Grading
- Permanent Stabilization
- Removal of Sediment & Erosion Control BMPs

**7.0 Erosion and Sediment Control Measures**

The SWPPP, which illustrate the project area, construction access, disturbed area, existing land use, existing and proposed grading, site access and locations of temporary and permanent best management practices (BMPs).

Erosion Control BMPs to be used on the site may include, but are not limited to: minimizing disturbed ground, protecting existing vegetation, installing earth berms to divert upland runoff around disturbed areas, temporary and/or permanent seeding, straw and/or mulch to reduce impact erosion, and biodegradable straw/coconut erosion control blankets.

During the course of construction, the Contractor shall conduct his operation in such a manner to prevent damage to existing & proposed bioretention cells from pollution by debris, sediment or any other foreign material, or from the manipulation of equipment or materials in or near the structures. The Contractor shall protect all slopes from erosion during the construction.

The existing public right-of-ways and the easements granting access onto paved or improved drives and parking surfaces located on private properties shall be maintained in a clean state. All paved surfaces receiving construction traffic should be inspected for track-out of construction sediments and debris at a minimum of once per day. Any mud, construction sediments or debris which is brought onto public right-of-way shall be removed from the right-of-way within 12 hours and the street cleanly swept.

Sediment Control BMPs to be used on the site may include, but are not limited to: truck washdown station, perimeter silt fence, intermediate silt fence on slopes, wire-backed silt fence around storm water pipe inflow, and Gutter Buddies at curb inlets.

**BMP Quantities:**

Silt Fence (LF) -	723
Temporary Silt Fence (LF) -	342
Rock Check Dam (LF) -	50
Construction Entrance (EA) -	1

The temporary BMPs listed above shall be maintained in good order until the contributing drainage area has received permanent stabilization. For additional detail regarding the location of each BMP, See the SWPPP Plan Sheet. For information pertaining to the operation and maintenance specifications for each BMP see the SWPPP Details Sheet.

**8.0 Site Stabilization**

Information regarding permanent stabilization, restoration and reclamation of the project site is detailed in the Project Plans & Specifications. Permanent Stabilization is to be as referenced in the project Planting & Site Restoration Plan. Final stabilization shall be completed within 7 calendar days following completion of earth disturbing activities on any portion of the site.

**Temporary Stabilization:**

Temporary stabilization shall be completed within 7 calendar days for any portion of the site where earth disturbing activities will cease for 14 calendar days or more. Refer to the seeding section for additional information on temporary stabilization.

**9.0 Non-Sediment Pollution Control**

Physical Description

Control measures designed to prohibit chemicals, hazardous materials, solid waste and construction debris from polluting stormwater. Pollutants carried in solution or as surface films on runoff will be carried through most erosion control and sediment capture BMPs. Keeping substances like fuel, oil, asphalt, paint, solvents, fertilizer, soil additives, concrete wash water, solid waste and construction debris from polluting runoff can be accomplished to a large extent through good housekeeping on the site and following the manufacturer's recommendations for disposal.

Where BMP Is To Be Installed

Collection, storage and fueling areas should be located onsite in an area that does not receive a substantial amount of runoff from upland areas and does not drain directly to lakes, creeks, streams, rivers, sewers, groundwater, wetlands, or road ditches.

Conditions For Effective Use Of BMP

- ✓ Reduction in pollutants depends heavily on how construction personnel perform their duties. An effective management system requires training and signage to promote proper storage, handling and disposal of materials. Follow up observations of actions and inspection of storage areas by management personnel is also required.
- ✓ Plans should contain notes clearly stating requirements for addressing potential pollutants
- ✓ Fueling areas and storage areas for hazardous materials should be protected by berms or other means of catching leaks or spills

When BMP Is To Be Installed

Immediately following installation of construction entrance and wash station

Installation/Construction Procedures

- ✓ Place waste receptacles near area of work
- ✓ Construct protective berm or other devices around fueling and hazardous materials storage areas
- ✓ Install appropriate signage
- ✓ Post guidelines for proper handling, storage and disposal of materials, and emergency spill cleanup on site

O&M Procedures

- ✓ Inspect activities on a regular basis
- ✓ Inspect storage areas and control devices at least every two weeks and after every storm
- ✓ Make necessary corrections and repairs

Site Conditions For Removal

Maintain practices until all construction on the site has been completed

**10.0 Spill Prevention & Response Procedures**

1) Handling and Disposal of Hazardous Materials

- DO: Prevent spills  
Use products up  
Follow label directions for disposal  
Remove lids from empty bottles and cans when disposing in trash  
Recycle wastes whenever possible
- DON'T: Don't pour waste into sewers or waterways on the ground  
Don't pour waste down the sink, floor drain or septic tanks  
Don't bury chemicals or containers, or dispose of them with construction debris  
Don't burn chemicals or containers  
Don't mix chemicals together

2) Containers shall be provided for collection of all waste material including construction debris, trash, petroleum products and any hazardous materials to be used on-site. All waste material shall be disposed of at facilities approved for that material.

3) No waste materials shall be buried on-site.

4) Mixing, pumping, transferring or otherwise handling construction chemicals such as fertilizer, lime, asphalt, concrete drying compounds, and all other potentially hazardous materials shall be performed in an area away from any watercourse, ditch or storm drain.

5) Equipment fueling and maintenance, oil changing, etc., shall be performed only within the portion of the Construction Staging Area which has been designated for that purpose. The construction staging area must be equipped for recycling oil and catching spills. This shall include the construction of a berm or other containment capable of storing 110% of the stored volume of all stored oils, lubricants and fuels. Spill kits must be readily available and identifiable. No fueling is to be completed outside of the designated construction staging area. Fueling and lubricating of equipment is expressly prohibited within the stream channel. All equipment on-site shall be stored in the Construction Staging Area when not actively being used for the construction of the project.

6) Concrete wash water shall not be allowed to flow directly to storm sewers, streams, ditches, lakes, etc. without being treated. A sump or pit shall be constructed to contain concrete wash water.

7) If substances such as oil, diesel fuel, hydraulic fluid, antifreeze, etc. are spilled, leaked, or released onto soil, the soil shall be dug up and disposed of at a licensed sanitary landfill (not a construction/demolition debris landfill). Spills on pavement shall be absorbed with sawdust, kitty litter or product designed for that purpose and disposed of at a licensed sanitary landfill. Hazardous or industrial wastes such as most solvents, gasoline, oil-based paints, and cement curing compounds require special handling. These materials will be removed from the site and recycled or disposed of in accordance with MoDNR requirements.

8) State law requires the party responsible for a petroleum product spill in excess of 25 gallons to report the spill to MoDNR at 573-634-2436, as soon as practical after discovery. Federal law requires the responsible party to report any release of oil if it reaches or threatens a sewer, lake, creek, stream, river, groundwater, wetland, or area, like a road ditch, that drains into one of the above.

9) Sufficient temporary toilet facilities to serve the number of workers on the site shall be provided at a ratio of one temporary toilet facility per every seven workers (1:7).



**DARDENNE CREEK BLUEWAY  
TRAIL AND STREAM  
STABILIZATION - SITE 2**  
 Saint Charles County, Missouri

THE PROFESSIONAL ENGINEER'S SIGNATURE AND PERSONAL SEAL APPEARING ON THIS PAGE AND DISCLAIMER PURSUANT TO SECTION 102.011 (B) (1) (iii) SHALL BE THE RESPONSIBILITY OF ALL OTHER PLANS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL ENGINEER RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

Professional Engineer Seal  
Timothy Patrick Dean - Engineer  
MO# E-2008019536



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Rev	Date	Description
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Checked by: MSA  
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SHEET TITLE:  
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SHEET NUMBER:  
**C-502**