

1.0 INTRODUCTION

Silicon Ranch Corporation, as the owner, is proposing to conduct site grading under the authority of National Pollutant Discharge Elimination System (NPDES), Tennessee General Permit TNR100000 for Discharges of Storm Water Associated with Construction Activities. The contractor for this work is McCarthy Building Corporation. The Owner and Contractor will ensure that site personnel are qualified to perform this work as defined by the regulations, and are aware that they must comply with all conditions of this permit and that any non-compliance with the permit constitutes a violation of the Clean Water Act and is grounds for an enforcement action, termination of permit coverage, or denial of a permit renewal application.

This Storm Water Pollution Prevention Plan (SWPPP) has been prepared for the Providence Road Solar Farm in accordance with Part IV.D., of the Tennessee Department of Environment and Conservation's (TDEC) General Permit TNR100000. This SWPPP includes an Erosion Control Plan (ECP). The plan shows three areas. Each area is less than 50 acres of disturbance. Area A would be constructed first. It is anticipated that by the time Area A is completed, the Individual Permit will have been granted and the entire site could be graded. However, if the Individual Permit is not granted, the sequence after Area A will be Area B and then Area C. Each area will be done in sequence with complete erosion control and final stabilization before proceeding to the next area. All erosion prevention and sediment controls have been designed for the 5-year/24-hour storm event. This plan has been developed and prepared in accordance with good engineering practices and identifies potential sources of pollution that one would reasonably expect to affect the quality of storm water discharges from this construction site.

The plan describes the implementation practices that will be used to ensure a reduction of pollutants in storm water associated with construction activities at this site, complying with the terms and conditions of Tennessee General Permit TNR100000 for Discharges of Storm Water Associated with Construction Activities. As required by the permit, a notice of intent (NOI) has been completed and is included as (Attachment B). A copy of the SWPPP, the NOC, and Permit TNR100000 will be kept onsite during construction activities. The contractor will also maintain an on-site rain gauge throughout construction.

2.4 Runoff Management After Project Completion

Upon completion, all disturbed areas will be seeded and mulched. See Attachment A for details regarding site grading and runoff management.

2.5 Erosion Control Plan

The Erosion Control Plan (Attachment A) for the Providence Road Solar Farm outlines the following:

- Proposed construction area
- Drainage Patterns
- Areas of soil disturbance
- Proposed sedimentation basins
- Proposed erosion control fences
- Method of final soil stabilization

2.6 Streams and Wetlands

A preliminary determination was made that wetlands are present on this site. Construction activities are outside the wetland boundaries and construction storm water runoff has been diverted away from the wetlands. For the most part construction is a minimum of 40 feet from the wetlands, though at the very south end the separation is 10 feet. The preliminary determination has also identified a potential onsite stream. Construction activities are a minimum of 60-feet off the stream top of bank and measures will be installed to protect the stream from construction runoff.

2.7 Receiving Water

Storm water runoff from the site discharges to a tributary to Panther Creek.

2.8 Protections to Limit Construction Disturbance

All areas disturbed by construction activities shall be graded and stabilized such that sediment runoff is negligible immediately after completion of a construction stage. Temporary erosion control structures shall not be removed until all disturbed areas in a completed stage have been properly stabilized. Sediment or construction debris on paved areas shall be removed within 14 days of completion and prior to removal of temporary erosion controls.

Construction and erosion control methodology are described in Sections 3.1 and 3.2 and are to be implemented in accordance with the attached ECP. The 128.4 acres will be physically altered in some manner under the current project. The limits of the area to be disturbed will be clearly