



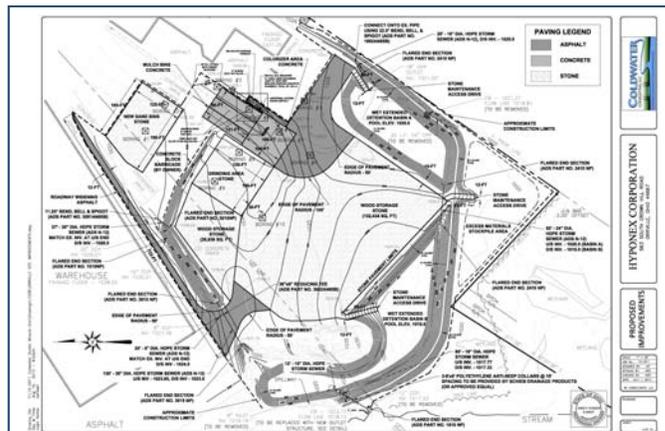
Orrville Site Stormwater Retrofit Design and Permitting

Scotts-Hyponex Corporation

Coldwater Consulting provided design, permitting, and construction-phase services to the Scotts-Hyponex Corporation for a significant industrial site retrofit project at their Orrville facility. Coldwater's scope of work included all stormwater design, Ohio EPA permitting, City of Orrville permitting, and a delineation of regulatory surface waters (wetlands and streams).

The final design for this 14.5-acre project was based on significant modifications to the two existing stormwater basins that allowed them to function as an interconnected sediment basin system during construction and a wet extended detention basin system following construction. The use of wet extended basins was selected because it met the post-construction water quality BMP requirements of the Ohio EPA permit, reduced construction costs through a more balanced grading plan, and reduced long-term O&M costs. The interconnection of the basins also allowed for the elimination of an industrial stormwater permit monitoring location. This interconnected basin system was designed to manage runoff from a 42-acre drainage area and provides over 10 acre-ft of detention storage above the permanent pool levels.

The project and facility were permitted through Ohio EPA general permits for construction activity and industrial activity. Coldwater's services included the development of a construction permit stormwater pollution prevention plan (SWPPP) and an update of the facility's industrial permit SWPPP. Coldwater staff also participated in a project review meeting with Ohio EPA. The construction SWPPP was also reviewed and approved by City of Orrville planning officials. Due to the requirement for performing construction within the ordinary high water level of a regulated stream, the project was subject to a Corps nationwide permit. Coldwater was able to prepare design plans that met the requirements of a Corps permit and did not require pre-construction notification. This approach reduced the overall permitting effort for the project and allowed for an expedited construction schedule.



Plan sheet from the Orrville construction drawings.



John Shady performing the surface water delineation.



Stormwater basin at the Orrville site, during construction.

Project Team Members Involved:
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