



Relocation of SPDES Outfall S09

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Project Objective

Project Objective: Relocate a storm water outfall to mitigate erosion

- New York State regulations require State Pollutant Discharge Elimination System (SPDES) permits for storm water discharges (6 NYCRR Part 750)
- The Smart Ditch® is a polyethylene ditch lining that collects and controls the flow of water runoff from rain and snow in the North Plateau to the SPDES permit storm water outfall S09.
 - Prevents storm water from interfering with operation of the Permeable Treatment Wall
- Water discharges are monitored in accordance with the permit requirements
- Discharge analytical results are available at www.wv.doe.gov
 - Annual Site Environmental Report
 - Appended to June and December Discharge Monitoring Reports (DMR) in the Public Reading Room





Aerial photo of lagoon system showing location of Smart Ditch® and current Smart Ditch® discharge (goes under road and discharges at top of embankment)

- The photo shows the current Smart Ditch storm water discharge point S09
 - Located at the top of the northeast corner of the Lagoon 3 embankment
 - Contributes to erosion on the face of the Lagoon 3 embankment



The Solution

- The storm water discharge S09 is being moved
- New piping will convey flow from the end of the Smart Ditch® to a point downstream from the existing discharge and discharge onto the grout mattress that surrounds the Parshall Flume
- There will be no adverse impact on Franks Creek, Erdman Brook, or the Parshall Flume
 - No change in the amount of discharge
 - No change in water quality (Essentially clean water)



The Parshall Flume

The Parshall Flume

- Located in Franks Creek at the point where the water leaves the WVDP
- Measures the volumetric flow rate of the water in the creek
- The flow rate is needed for the calculation of total dissolved solids (TDS), for which there is a SPDES permit limit
- The area of the creek surrounding the Parshall Flume is covered with a grout mattress that prevents erosion



- NEPA review
 - Categorical exclusion for Small Water Treatment Facilities and Storm Water Runoff Control
- SPDES permit modification to NYSDEC
 - Only for relocation of storm water outfall S09
 - NYSDEC provides the application for public review
- Joint Application to NYSDEC and the Army Corps of Engineers for work in the creeks
 - Any sediments removed will be packaged and shipped offsite for disposal
- Final design
- Construction currently planned for late-July – October 2015