Relocation of SPDES Outfall S09

Bryan Bower
DOE WVDP Director

Citizen Task Force Meeting
June 24, 2015

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 Issue

- 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 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
• 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