

## MONTHLY PROGRESS UPDATE #6 MANISTEE, MI FORMER MGP SITE



### **Work completed between 12/01/2018 and 12/31/2018 included the following:**

- Completed In-Situ Solidification (ISS) via bucket mixing in the upland area. (See photo #1)
- Began as-built surveys of the top of the ISS monolith.
- Began backfilling activities as part of the season's restoration scope. (See photo #2) Backfill soil is being placed around the perimeter to establish stable sloping during winter break. A demarcation layer is installed to indicate a transition to the top of the ISS monolith.
- Performed inspections of the installed sedimentation controls, in accordance with the Soil Erosion and Sedimentation Control permit.
- Conducted construction and perimeter air monitoring.
- Continued transporting and stockpiling overburden soil to the staging area. Native soils were removed with oversight by a qualified archaeological.
- Performed sampling of the soil stockpiles for potential reuse.
- Transported and disposed of unsuitable backfill soil and debris offsite to the project landfill.
- Completed ISS via high pressure jet grouting. (See photo #3)
- Began preparing the site for the winter break.

### **Upcoming work includes the following:**

- Continue inspections of the installed sedimentation controls.
- Continue construction and perimeter air monitoring.
- Complete current season restoration scope and site preparation activities in mid-January prior to the winter break.
- Remaining work is expected to resume in the spring of 2019 with remediation efforts focused along the river bank.

**Associated pictures:**

Photo No. 1:  
Bucket mixing ISS  
(photo taken facing northwest)



### Associated pictures:

Photo No. 2:  
Placing backfill over demarcation fabric on the top of ISS.  
(photo taken facing southeast)





**Associated pictures:**

Photo No. 3:  
ISS via jet grouting  
(photo taken facing south)

