Camp Lutherlyn Passive Treatment System
SRI O&M TAG Project #1 Request #3
OSM PTS ID: PA-100

Requesting Organization: Camp Lutherlyn (in-kind partner)
Requesting Organization Representative: Todd Garcia-Bish
Dates of work performed: 8/17/2023-8/23/2023

Initial Request: Camp Lutherlyn requested help maintaining the treatment system that was experiencing reduced treatment performance that they identified during their education monitoring program.

Initial Site Visit, Observations, and Identified Needs: Excavation of occluded pipes, wetland channelization, and short circuiting were noted issues to be addressed within the system.

Work Completed:
-Excavated upper stream diversion inlet installed by gas company to create an energy dissipation pool
-Excavated the raw water inlet pool in front of the Agri-drain structure and cleaned stop logs
-Excavated outlet of wetland inlet piping (24" N-12 pipe) from Agri Drain structure
-Used on site riprap pile to fill breach in upper settling wetland
-Used z-piling and filter sock to de-channelize wetland and spread water throughout the wetland
-Maintained system access road by removing vegetation

Results
Prior to maintenance, field water monitoring conducted by Lutherlyn indicated that iron at the final effluent and within the stream was visually noticeably more orange with measured field iron about 3-5 mg/l. Post maintenance, field iron measurements were <1 mg/l. Laboratory data from samples collected during the 2025 snapshot had iron concentrations of 0.61 mg/L with flow rate measured at about 100 gpm indicating successful sustained improvements to the treatment effectiveness.

Recommendations & Future Considerations: On-going water monitoring and site inspections should continue. Blockages should be cleared from applicable pipe inlets (stream intake, Agri Drain box, system outlet flume). Annual removal of vegetation along the access road is recommended to keep the route passable. As the system is now more than 20 years old, SRI recommends that funding should be sought within the next few years to begin the process of cleaning out and rebuilding the system.

Photo Log

Top Left: Excavated upper stream diversion inlet (8/17/23).
Top Right: Excavated raw water inlet pool for Agri-drain structure, cleaned stop logs (8/18/23).
Bottom Left: Used z-piling and filter sock to de-channelize wetland (8/17/23).
Bottom Right: System outlet pool and additional wetland bench constructed (8/17/23).