Sludge Cleanout of Settling Pond

Construction

Highlights

Construction a 1-acre drying bed

One mile DR9 HDPE 8-inch high pressure sludge conveyance line installed

Settling pond cleanout

Site restoration



Project History

Acid Mine Drainage Treatment System

Boyers, Pennsylvania

Regulatory Agency

Pennsylvania Department of Environmental Protection (PADEP)

Project Description

Hydraulically removed sludge from a 1.5 acre settling pond used to neutralize incoming mine drainage. Sludge removal necessary to restore treatment efficiency of the settling pond. Removed sludge and managed material onsite.

.

Activities Performed

- Constructed 1- acre drying bed to receive wet sludge (~10% solids)
- Constructed 3,000-feet high pressure sludge conveyance line out of 8-inch HDPE (butt fusion welds in field)
- Mechanically slurried settled sludge from AMD treatment pond
- Slurry pumped to drying bed through sludge conveyance line



Drying bed construction

- Slurry decanted of liquids and dried in bed
- Site restoration consisting of closing drying bed and revegetation

The project has been completed on a bi-annual basis with the most recent event being 2023.

Project Manager

Hank Pappert

Contract Value

$1,000,000



Slurry and pumping setup