

DUNKARD CREEK WATER TREATMENT SYSTEM, LLC
GENPOWER LONGVIEW POWER FACILITY DUNKARD
CREEK DB WATER SUPPLY INTAKE, PIPELINES
MAIDSVILLE, WEST VIRGINIA



Project Description

This Design-Build project included the following features: Raw water intake and pumping facility and supply pipeline system to the existing Dunkard Creek WTF; Treated water pumping and storage facility and piping system from the water treatment facility to the Longview Facility; RO reject pumping station, storage, and piping system to the borehole discharge area; Facility waste pumping station and piping system to the borehole discharge area; Integrated SCADA system controlling RWPS, WTF, FWPS functions related to supply and discharge; Overland Conveyor clearing and civil work. Pipelines, bores and appurtenances for a complete system: 5,470 LF of 30" DIP; 30,400 LF of 24" DIP; 37,536 LF of 12" DIP and PVC SDR18; 10,000 LF of 8" DIP; 7 Cased Bores. Directional Drills 4 each: 1500 LF each of 24" DIP; 12" HDPE & 6" HDPE; 1350 LF each of 24" DIP, 12" HDPE & 6" HDPE; Tanks: 294,000 Gallon Pre-stressed Treated Water Storage Tank; 80,000 Gallon Pre-stressed Reverse Osmosis Reject Water Storage Tank; Miscellaneous: 36,000 LF Fiber Optic 12 Strand Single Mode 1 ¼" Innerduct Cable; 900 feet 4160 Volt Overhead Primary Power Cable with 2 Transformers for WTP Facility; 650 feet 480 Volt Overhead Primary Power Cable with 1 Transformer for the Intake

- 8 vertical turbine pumps. 3 horizontal split case pumps
- 3 VT 800-HP, 3,750gpm @ 640'TDH, installed in 30" cans
- 3 VT pumps 95 tdh
- 2 VT pumps 750 tdh
- Intake has concrete supports/foundations in the river and included blasting/excavation in the bank of the river

At a Glance

Contract Amount:
\$42.5 M

Notice to Proceed:
December 2008

Completion Date:
February 23, 2011

MGD:
13.5

Owner:
Dunkard Creek Water Treatment
System

Engineer:
Chester Engineers