

SITE AND FACILITY DESCRIPTION

The site of the Hawk Run AMD treatment plant is located nearly at the center of the State of Pennsylvania, approximately 2 miles east of Philipsburg. A triangular shaped plot of 19 acres was donated to the state by the Lewis Stein Estate. An additional 3 acres adjacent to the site is yet to be acquired for the waste lagoon. The southern property line is the Penn Central Railroad. Hawk Run flows in a southeasterly direction through the western portion of the property. There is a road bed running in an east-west direction near the center of the property. To the north of this road bed is an abandoned strip mine area. The road constitutes a ridge which rises to the east. A new road is to be constructed on the site along the northwestern edge. See Site Plan, Drawing 1402.

A single-story building measuring 120 ft by 64 ft contains some of the equipment and provides space for the laboratory, office and maintenance facilities, Drawings 1401, 1403, 1404 and 1405. The major equipment housed in the main section are the four ion exchange towers, three gravity filters, two plate and frame pressure filters, ammonia recovery stripper and tankage, steam boiler and the control panel. In addition, the regeneration station, pumps and chemical feeding equipment are located in the building. A wall separates this section of the building from a smaller section which makes up the laboratory and office area. Also in this section are a lunch area, locker room, shower, and separate toilet facilities for men and women.

The building is of the prefabricated type. The elements of the building are fabricated into modules at the factory and shipped to the site. These modules are then assembled to form the complete building.

A paved area around the building provides maneuvering room for truck deliveries. Parking facilities are located in the front of the building.

The remainder of the equipment is outside the building. This equipment is so positioned to utilize the topography of the land to maintain gravity flow throughout the remainder of the plant. Along the ridge are

the decarbonator and aerator. Straddling the ridge are the 2 settling basins. In a low area to the north, the lime softener is located. The ground water storage tank is placed in a low-lying area south of the ridge. Acid Mine Hole #1 is located 30 ft northeast of Hawk Run, 200 ft west of the building.

The waste lagoon is located on the northerly side of the proposed road which will serve as an access road to the site and to the Stein property to the east. A rectangular area of 2.7 acres is provided for the pond. A dike, extending out from the shore line for 350 ft, acts as a baffle to prevent short circuiting and thus assure the full volume of the lagoon being utilized. A short ditch at the western shore connects with Hawk Run. Flow out of the lagoon will be recorded by means of a V-notch weir and a float. The effluent will be analyzed for acidity, hardness and iron.