Hopper Alley pump station motor floor. One of the smaller river pumping stations.

Pumping Stations

80% of the city is surrounded by levee and floodwall which acts as a perimeter protection against the rising river and creek during a flood. During an event the perimeter protection, while protecting the city from the rising river and creek, now begins to act like a giant bowl collecting rain water internally. Without a natural mechanism to move the collected rain water out of the city, pumps stations must be constructed to accomplish the task.

Pump stations are situated throughout the system at strategic locations to pump the collected rain water out against the head of both the Susquehanna River and Shamokin Creek.
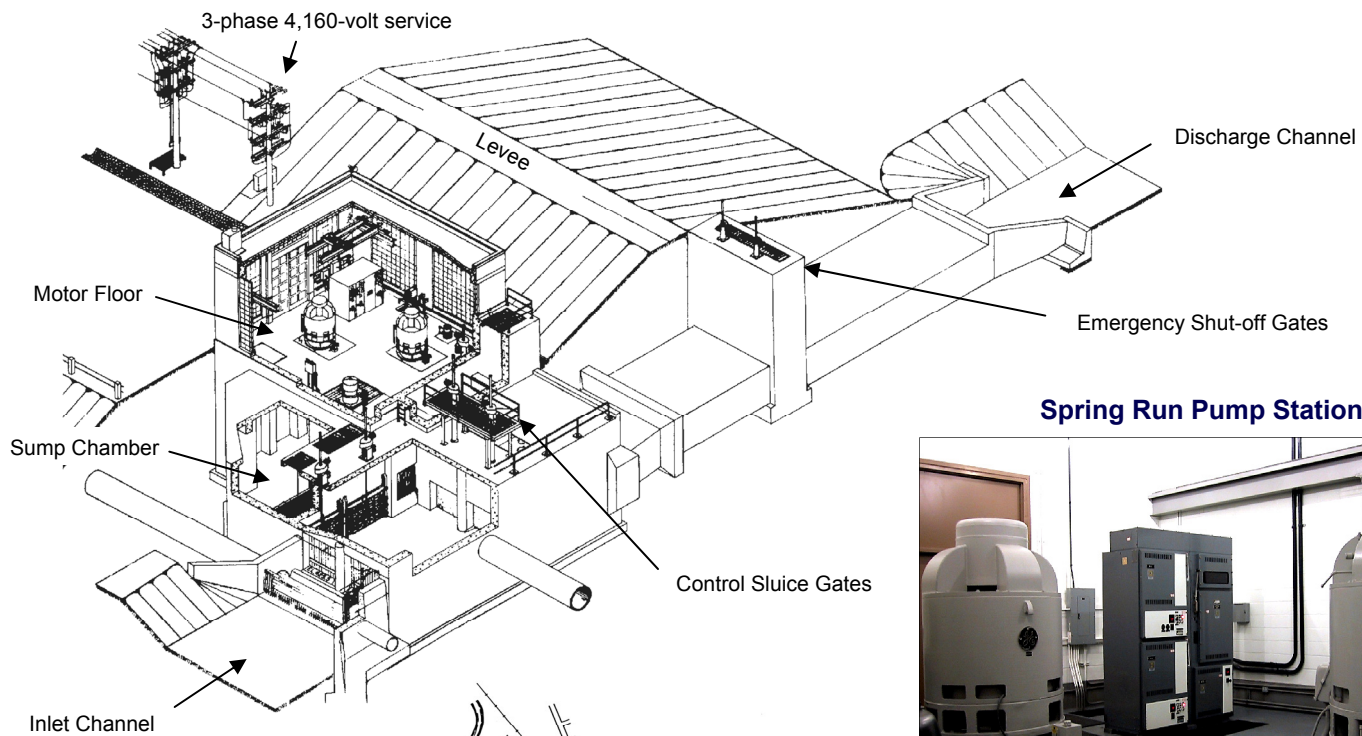
Capacities range from as little as 3,000 gpm to 113,000 gpm. An example of pumping capacity at the Spring Run station; if the pumps were connected to the Sunbury Community Center swimming pool, it could pump it dry in just 2 minutes!

Sunbury Municipal Authority
FLOOD CONTROL

Pumping stations

SUNBURY
MUNICIPAL AUTHORITY
Flood Operations Center
826 Hillside Drive
Sunbury, PA 17801

Front Panel: Spring Run Pump Station - 350 HP pumps
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3-phase 4,160-volt service

Levee

Discharge Channel

Motor Floor

Emergency Shut-off Gates

Sump Chamber

Control Sluice Gates

Inlet Channel

Spring Run Pump Station

Spring Run pump station - Motor floor
2-350 hp motors with a pumping capacity of 47,500 gpm ea.

Earthen Levee

Concrete Floodwall

● Pumping Station

Pumping Stations

The pumping scheme consists of 6 high capacity pump stations (2 pumps each) to manage internal stormwater flows. Of the 6 stations, 4 are combination stormwater/sanitary sewage pumping stations and 2 manage srtictly stormwater flows. The stormwater stations are located at the landside toe of the earthen levee on South Tenth Street and Shikellamy Ave. Along the concrete floodwall, combination sanitary/ stormwater stations are located at Hopper Alley, Church Street, Reagan Street and across from the Knight Celotex facility.

Pumps installed in all stations, except the Underpass pumping station, are vertical mixed-flow propeller type pumps.

STATION	NUMBER OF PUMPS	COMBINED CAPACITY (Gallons per Minute)
Spring Run	2	95,000 *
Shikellamy Ave.	2	54,000
Reagan Street.	2	42,000
Church Street	2	30,000
Hopper Alley	2	15,000
Underpass	2	3,000

* Maximum output 113,000 gpm when storage ponds reach maximum head