

STRUCTURE G-350B

Pump station G-350B is located at the southeast corner of STA-5 at the confluence of the South Seepage Canal and the southern terminus of the STA-5 Discharge Canal.

PURPOSE

The purpose of this pump station is to provide supplemental water to the STA by moving water from the STA-5 discharge canal into the south seepage collection canal during periods of drought. In this mode, pump station G-350A will be activated along with G-350B to pump the water from the seepage collection canals into treatment cell 2A. Water quality sampling will occur at these pump stations in accordance with Rule 40E-63.

OPERATION

The pump station has a single 24-inch diameter axial flow pump with a 125-Hp electric powered engine. The pump has a discharge capacity of 39 cfs at a maximum static head of 11 ft. At the present time (August 2000), manual operation of these pump stations is available. The station is operated manually. Telemetry control for remote operation and real-time status of the pump station is available. Headwater and tailwater data are also available to the remote operators, while headwater/tailwater staff gauges are available for local operation. The factory test report, including performance curves, for the pump is contained in the project files.

DISCHARGE CHARACTERISTICS

Discharge capacity: 39 cfs at a maximum static head of 11 ft

DESCRIPTION OF STRUCTURE

Number of pumps:	1
Design headwater elevation:	N/A
Design low water (headwater) elevation:	7.0 ft
Design tailwater elevation:	9.0 ft
Nominal pump operating speed:	735 rpm
Normal “on elevation”:	Subject to drought conditions
Normal “off elevation”:	Subject to drought conditions
Motor size:	125 Hp
Motor speed:	1780 rpm
Centerline discharge connection:	17.0 ft
Pump station floor elevation:	14.0 ft
Intake floor elevation:	-1.4 ft

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Staff gauges: On-site staff gauges for local operation and analog and remote digital headwater & tailwater recorders

Telemetry system: One electric pump on telemetry control, pump monitored for status

Date Acceptance into Service: October 1999 *

* Temporary operations authorized for 14-day period in response to Hurricane Irene. Routine operations began June 2000.

ACCESS: This pump station is located at the southeastern corner of STA-5. From US 27 take CR 835 South, left on L-1 Borrow Canal Levee 11 miles south to STA-5.