

BMP-03 Upgrade Pump Stations Located in Rensselaer

General description

Rensselaer Pump Station Upgrades (Aikens & Forbes) - replace pumps, repair/replace sluice gates & isolation valves, new channel grinders, new emergency generators, new control system for communication with WWTP. Increase pump station capacity: Aiken from 10.4 MGD to 14 MGD. Forbes from 14.4 MGD to 17.2 MGD.

Purpose

Improve conveyance of wet-weather flows to WWTP, thereby reducing surcharging & subsequent CSO discharges.

SPDES Permit#	Cost-sharing
NY-008 7971	N/A
Project Cost (Millions)	Manage construction
\$14.00	RCSD
Funding source	Operation
RCSD	RCSD
Own	Enforcement
RCSD	RCSD
Maintain	Outfall#
RCSD	R-002 to 010 (once regulators are opened)
Affected Waterbodies	Contact Information
Hudson River	Gerry Mosckinski
Certification	RCSD
RCSD	(518) 283-2235 / GMoscinski@renesco.com
Discharge reduction amount	
Consent Order Milestones	Date Milestone Met
Completed Plans and Specs: 3/1/14	2/28/2014
NTP to Construction: 7/1/14	6/19/2014
Construction Completion Date: 8/15/15	8/10/2015
Operational Start-Up Date: 8/1/15	8/10/2015
Annual Volume Captured (Mgal)	Annual Percent CSO Reduction (%)
2	0.162

Status

3/27: Completed plans and specs have been submitted. On schedule DEC Comment letter received. **5/22:** Construction started on May 1st, pads for generator poured - slide gates and generator expected soon. **7/10:** NTP has been issued ahead of schedule. Generator sets have been delivered & set, slide gates being installed. **7/24:** no update at this time. **9/11:** RCSD estimates that the project is roughly 50% along. Piping work has yet to be started. **10/9:** Construction ongoing. **11/13:** The generators are in. Electrical work underway. National Grid scheduled to visit. Installation of pumps scheduled for the end of the month. **1/08/15:** We anticipate submission of a modification request letter to the Department very shortly. The modification request letter will provide a complete update. **2/12:** On January 16 the District requested a modification of the construction completion and operational start up dates, due to delays in MCC procurement and testing, National Grid coordination and energizing, and harmonic filter procurement. DEC granted the extension request dates of 8/15 in a memo on 1/28. On Thursday, January 22 a flooded dry well was the result of a plug valve not fully closing at the Aiken Ave. Pump Station. This happened while the station's first pump was pulled for replacement resulting in wastewater flowing back from the force main into the dry well to a depth of several feet before flow could be stopped. Gerry Mosckinski alerted Derek Thorsland straight away to notify the Department of the situation. The dry well was dewatered that day and the station remained in operation however, unfortunately, the three new pump motors were all staged on the floor of the dry well at the time and subsequently became submerged. The construction contractor is now working with Troy Belting to have the motors shipped to their shop for testing as they are certified by the motor manufacturer. Troy Belting will then make a recommendation as to what refurbishment is required to make the motors reliable for operation. Refurbishment time should be 4-6 weeks followed by a couple days to install. We will have a better estimate once Troy Belting gets a look at the motors. - continued on nexy page -

continued from prior page - The County, CDM Engineering, and the contractor have been working hard to address this issue, and the team has identified a few opportunities to compress the installation schedule as to not lose time due to this setback. To keep the project moving on schedule, the team plans to have the affected new motors refurbished so that they can be installed. Thus, the station will operate at the required increased capacity with the new pumps and refurbished motors. At this time we do not believe there will be a delay in getting the station project complete and operational by August 15. In the meantime the County will be evaluating the cost/benefit of having new replacement motors assembled and shipped. New motors would take about 12-14 weeks for the order to be fulfilled and 14-16 weeks for installation. If the County elects to install replacement motors, they estimate these brand new motors could be in service prior to 8/15. **3/12**: National Grid has energized the station. The motors are back from Troy Belting. Motors from Forbes aver that did not get wet will be used for the first few installs with the intent new motors will be arriving as needed. **4/9**: The project is moving along well. One of the new pumps is up and running at the Aiken Station. **5/14**: The third pump and grinders at each station are installed. MCCs are being pulled and the HVAC is coming along. **6/11**: HVAC and some Mechanical work is being finished. All pumps and grinders are operationally complete. **10/08**: Construction and operational start-up of equipment necessary to operate the stations at increased capacity has been completed and certified.