



PUBLIC WORKS DEPARTMENT

CITY OF PORTSMOUTH

680 Peverly Hill Road
Portsmouth N.H. 03801

(603) 427-1530 FAX (603) 427-1539

January 25, 2017

Mark Pollins
Director of Water Enforcement
U.S. Environmental Protection Agency
Room # 3142
USEPA Ariel Rios Building (AR)
1200 Pennsylvania Avenue N.W.
Washington, D.C. 20004

Re: Consent Decree 09-cv-283-PB
Monthly Report on Compliance for December 2016
City of Portsmouth, New Hampshire

Dear Mr. Pollins:

In accordance with Consent Decree 09-cv-283-PB, Section V, item paragraph 20, dated August 12, 2009 and as amended by Consent Decree Modification filed July 2, 2012 and approved by the Court on February 15, 2013 and as amended by Consent Decree Second Modification, Section III, item paragraph 6, filed on April 1, 2016 and approved by the Court on September 28, 2016, the City of Portsmouth is submitting this monthly report on compliance.

The Consent Decree Second Modification requires the filing of monthly reports as follows:

Within 30 days after the end of each month, the City shall submit a written report to EPA, the State, and CLF for the preceding month that shall include a description or reporting of the following: i) status of required construction, including major work items completed in the preceding month; ii) projected work items to be undertaken in the next month; iii) project percent complete based on payments to contractor for work completed; iv) project percent complete based on time elapsed; v) status of all required permit applications; vi) status of Consent Decree milestones including identifying any problems encountered or anticipated, together with the proposed or implemented solutions; and vii) the monthly average discharge concentrations of total nitrogen for the preceding month, as required in Paragraph 8.b.ii of the Second Modification.

The Consent Decree, First Modification and Second Modification along with such Monthly Reports on Compliance shall be posted on the City's internet site, and maintained accessible to the public online until termination of the Consent Decree. In addition to the submission of Reports on Compliance, the Parties will participate in quarterly meetings or conference calls, if scheduled by EPA, to review the City's compliance with the terms of the Consent Decree.

i. Status of required construction including major work items completed in the preceding month

Work completed by the Contractor in the month of December 2016 is as follows:

- Completed pavement striping on Mechanic Street and Marcy Street to aid in pedestrian travel
- Test pits at various location in the plant in preparation for future work
- Assembled gate attendant shelter
- Installed overhead wiring for temporary electrical utilities to replace underground power
- Completed pedestrian safety fence along Mechanic Street and Peirce Island Road

ii. Projected work items to be undertaken in the next month

Projected work to be completed by the Contractor in the month of January 2017 includes the following:

- Continue installation of pipe encasement and yard piping at Headworks Facility
- Continue installation of reinforcing steel and concrete for the foundation of the new Headworks Building
- Begin excavation for the new Sanitary Pump Station
- Begin utility installation near the new Sanitary Pump Station
- Relocate the polyethylene tank and pumps (for pH adjustment) to a temporary facility
- Prepare for demolition of the Sand Filter Building and removal of fuel tank
- Startup temporary electrical facilities
- Continue revetments stabilization along shoreline

iii. Project percent complete based on payments to contractor for work completed

The contract value for the construction upgrade is \$72,785,545. The following table provides a summary of the contractor's requests for payment and the resulting percent complete:

Payment Application No.	Amount	Cumulative Amount	Percent Complete
1	\$1,393,500.00	\$1,393,500.00	1.9%
2	\$2,855,100.00	\$4,248,600.00	5.8%
3	\$1,717,330.09	\$5,965,930.09	8.2%

iv. Project percent complete based on time elapsed

The contract time to the EPA required milestone for the BAF treatment system completion is 1186 calendar days. The total value of the contract (item iii) is based on the City's contractual milestone for project substantial completion is 1368 calendar days. The project is 10.3% complete based on the BAF treatment system completion as of December 31, 2016 and 8.9% complete based on project substantial completion.

v. Status of all required permit applications

There are no pending permit applications.

vi. Status of Consent Decree milestones including identifying any problems encountered or anticipated, together with the proposed or implemented solutions

The construction contract with Methuen Construction Company, Inc. was executed on August 25, 2016. A summary of all milestones required by the Consent Decree Second Modification is provided below.

Milestone	Date	Status
Execute a Contract to Construct Upgrades	July 1, 2016 September 1, 2016*	Complete
Submit Two Additional Milestones for EPA Review and Approval	December 1, 2016	Complete
Additional Milestone 1: Transfer of the existing SCADA system to the new Headworks Building	November 21, 2017	On Schedule
Additional Milestone 2: Startup and testing of the Secondary Influent Pump Station in the new Solids Building	May 9, 2019	On Schedule
BAF Substantial Completion	December 1, 2019	On Schedule
Achieve Compliance with NPDES Permit Limits	April 1, 2020	On Schedule

*At the request of the City of Portsmouth, all parties agreed that the Contract Execution Date could be revised to September 1, 2016 to allow more time for bidding and to accommodate the Portsmouth City Council's review of bargaining alternatives prior to contract execution. The Contractor's schedule for completion was reduced to accommodate the modified contract execution delay.

vii. The monthly average discharge concentrations of total nitrogen for the preceding month, as required in Paragraph 8.b.ii of the Second Modification.

The average concentration of effluent total nitrogen in the month of December 2016 was 33.0 mg/L TN. See attached report, which was also submitted with the City's December 2016 Discharge Monitoring Report (DMR) for NPDES Permit NH0100234.

These Construction Monthly Reports are being posted on the City's wastewater web site at <http://www.portsmouthwastewater.com/resources.html>.

As required by the Consent Decree:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact me at (603) 766-1416 if you have any questions or require additional information.

Very truly yours,



Peter H. Rice, P.E.
Director of Public Works

By email except where otherwise noted.

cc: Chief, Environmental Enforcement Section (mail)
Joy Hilton, USEPA Region 1
Tracy L. Wood, P.E., NHDES Wastewater Engineering Bureau
Allen Brooks, Esq., Department of Justice, Chief Environmental Protection Bureau
Tonia Bandrowicz, Senior Enforcement Counsel, U.S. EPA
David Gordon, Esq., U.S. Department of Justice
Tom Irwin, Esq. Conservation Law Foundation
John P. Bohenko, City Manager, City of Portsmouth
Suzanne Woodland, Deputy City Attorney
Nancy Colbert-Puff, Deputy City Manager
Brian Goetz, Deputy Director of Public Works
Terry Desmarais, City Engineer
Donald Song, Wastewater Project Manager

Peirce Island Effluent Nitrogen

December 2016

Date	1003 Inf Flow	99959 Effluent Ammonia as N	99960 Effluent Nitrite/Nitrate-N	99961 Effluent TKN	99962 Total Nitrogen
	MGD	mg/l	mg/l	mg/l	mg/l
12/1/2016	8.861				
12/2/2016	5.363				
12/3/2016	4.636				
12/4/2016	4.202				
12/5/2016	4.107				
12/6/2016	3.894	15	<2.0	26	28
12/7/2016	3.841	17	<2.0	29	31
12/8/2016	3.748				
12/9/2016	3.617				
12/10/2016	3.494				
12/11/2016	3.328				
12/12/2016	4.584				
12/13/2016	3.787	13	<2.0	28	30
12/14/2016	3.815	17	<2.0	22	24
12/15/2016	3.719				
12/16/2016	3.347				
12/17/2016	3.337				
12/18/2016	5.045				
12/19/2016	3.774				
12/20/2016	3.610				
12/21/2016	3.483	19	<2.0	33	35
12/22/2016	3.298	18	<2.0	35	37
12/23/2016	3.189				
12/24/2016	3.451				
12/25/2016	2.819				
12/26/2016	3.019				
12/27/2016	3.507	17	3.7	37	41
12/28/2016	3.500	17	<2.0	37	39
12/29/2016	5.957				
12/30/2016	5.682				
12/31/2016	4.764				
Minimum	2.819	13	<2.0	22	24
Maximum	8.861	19	3.7	37	41
Average	4.090	17	<2.2	31	33