

CITY OF OGDENSBURG, NEW YORK

CITY HALL • 330 FORD STREET • OGDENSBURG, NY 13669 • (315) 393-6100



Office of the City Manager

MEMORANDUM

MEMO TO: City Council
FROM: Sarah Purdy, City Manager *SP*
DATE: September 30, 2016
SUBJECT: Update 16/37

COMPTROLLER UPDATES – No update.

DEPARTMENT OF PUBLIC WORKS UPDATES –

Waste Water Treatment Plant Update

- Update from Carrie Tuttle, DANC Director of Engineering is attached.
- Still in the process of going through and performing maintenance to the second Primary Tank.
- We were prohibited from taking the large primary digester completely off line because we cannot get the isolation valves to function properly. We were finally able to isolate the primary digester and we are pressing out of it so that we can empty it. Once emptied it will be cleaned and repaired, so that we can perform similar maintenance on the second digester.
- We are working closely with DANC to determine our staffing needs. With the uncertainty of knowing the future rating of our plant we are trying to formulate on how best to move forward. We are trying to address the information voids that have been created in the past by cross training our entire staff.
- GHD, DANC and I had a conference call yesterday with the EFC to identify the best way to move forward so that we do not impact our project that is already in the queue. The meeting went well.
- GHD have started the preliminary engineering report. Time line is 90-120 for completion.
- In the process of replacing the sewer flow meter at the SLPC. Our meeting with DANC was very successful last week. We will be able to perform all the mechanical and electrical work ourselves.

Water Filtration Plant Update

- Successfully cleaned one of our four slow sand filters two weeks ago. The next cleaning date is set for September 30th. We will clean one of the four on a rotating basis every two weeks until next spring.

Equipment

- We have decided to hold off on the request for the grader until we can get a clear picture of where we might finish 2016. The need is real, but we also understand the financial stress that the City is experiencing.

Road Cuts

- Local hot mix is finally available and we will continue to push to try to close up all road cuts before the plant shuts down for the season, likely mid-October.

Paving / Milling / Streets

- All paving has been completed for the season.
- We are trying to identify and address sign issues. Replacing worn and missing signs.

- We are accomplishing road striping as time and weather permits.

Sidewalks

- Unit 7 continues to work every day on sidewalk projects.

Unit "6"

- Has been digging every day.
- Working on manhole and drop repairs.
- Performing water and sewer services as they arise.

Brush Pickup

- Fourth ward was completed on Monday.

Paterson St

- Punch List work is moving forward slowly.
- We completed the dropping of our 12" main, but will need to go back to address a leaking valve. This will complete our work in this area.

Solar Array

- The electrical work is proceeding. Panels are being interconnected. Poles have been strung with wire.
- Partial energization is scheduled for no later than September 30th, with full energization taking place by November 30th.
- We are finalizing site preparation for a possible second phase of solar. NNE is in communication with National Grid about approaching our phase two as an expansion to phase one. This request will significantly reduce possible interconnect cost.
- We continue to move forward with the Tri-County Energy Consortium. The consortium is in the process of looking at wind power as well as solar, which could get us to our goal of 100% green energy sooner than originally projected. There will be a ribbon cutting ceremony for the first site sometime in mid-October.

Storm Drops / Cleaning Sewer Mains

- Crew is working on cleaning drops.
- Fall sewer cleaning will be taking place until completed or weather prohibits the process.

Mowing / Trimming

- On an as needed basis. Summer help is gone.

MISC.

- EAB – No Update.

PARKS AND RECREATION UPDATES – Please see attached a memo from Matt Curatolo regarding the new wood bleachers at the Lockwood Civic Center.

The Peg LaVigne sign was installed at Champlain Street field. The sign was paid for by a donation from Ogdensburg Women's Softball League. On Sept. 29, the field was officially dedicated to Peg LaVigne with a short ceremony.

The department hosted the St. Lawrence County Tax Auction at the Lockwood Arena on Sept. 10.

The department worked with the Ogdensburg Free Academy Key Club to stain Kids Kingdom on Sept. 11. The Key Club stains different portions of the playground on a yearly basis.

The department continues to maintain and paint fields for Ogdensburg Kiwanis and Ogdensburg Pee-Wee Football at Montroy Park, Champlain Street and Park Street fields.

We worked with Claxton-Hepburn Medical Center and American Heart Association to create a walking path from the hospital to the Maple City Trail. Signage, donated by the AHA, will be installed by DPW

along Rensselaer Avenue and then onto Lake Street directing walkers to the trail. The hospital would also like to create a connector path to the new trail system at Lighthouse Point once completed.

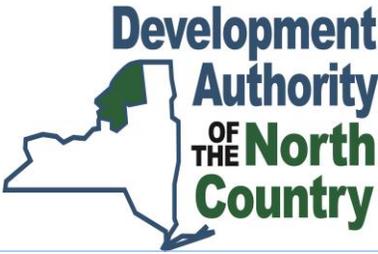
Staff worked with the Lowe's Heroes Program to build 60X15 bleachers on the mezzanine at the Lockwood Arena. Lowe's provided supplies, wood and labor for the project. The bleachers were completed in three days. They were stained by Parks & Recreation staff. It was a great project for the department and a much needed improvement to the Lockwood Arena.

We started the process for a chainsaw carving contest to redesign a dead elm tree near the city pool. Applicants will have until October 21 to submit an application, liability waiver, a design (fishing theme) and samples. The Recreation Commission will then select the carver. Once that has been done, the department will work with the carver on a timeframe to complete the project. We have advertised this "contest" on the City website at <http://www.ogdensburg.org/CivicAlerts.aspx?AID=331>, as well as the City and Ogdensburg City Recreation Facebook pages, and have issued a press release.

Ice will begin to be put in at the Lockwood Arena on Oct. 3. The tentative date for the first day of rentals will be Oct. 8.

PLANNING DEPARTMENT UPDATES – No updates.

NEW YORK STATE DEPARTMENT OF LABOR OFFICE GRAND OPENING – There will be a Grand Opening Ceremony at the new office of the Department of Labor, 1031 Paterson Street, Ogdensburg at 2:30 pm on Wednesday, October 5, 2016.



Water and Wastewater Facilities

Warneck Pump Station
23557 NYS Route 37
Watertown, New York 13601

Telephone (315) 661-3210
Telefax (315) 661-3211
Emergency Telephone (315) 786-4000

Open Access Telecom Network

Dulles State Office Building
317 Washington Street, Suite 406
Watertown, New York 13601

Telephone (315) 661-3200
Telefax (315) 661-3201
Emergency Telephone (866) 669-3262

Solid Waste Management Facility

23400 NYS Route 177
Watertown, New York 13602

Telephone (315) 661-3230
Telefax (315) 661-3231

September 28, 2016

RE: City of Ogdensburg
Water Pollution Control Facilities Management Services
August 2016 Monthly Status Report
SPDES Permit No. NY-0029831

Dear Ms. Purdy:

Services performed for the month are detailed below for your review. I hope that you find the information useful and welcome suggestions to make this report more useful for the City going forward.

1) MANAGEMENT SERVICES:

- Mr. Robert Henninger joined the Authority on 9/20/2016 and is assigned full-time as Water Quality Supervisor at the Ogdensburg WWTP facility. J. Overstrom will be retained as Operator of Record until Mr. Henninger becomes familiar with facility operations.
- The Authority is continuing to develop preventative maintenance and regulatory required tasks to input into a Computerized Maintenance Management System (CMMS) that will generate written work orders and keep track of repairs/breakdowns. This process is expected to take several months to implement and will be utilized on an on-going basis to better manage City WWTP operations.
- The Authority is continuing to review the USEPA Industrial Pretreatment sampling requirements. The Authority has met with City personnel to better understand the Significant Industrial Permittee billing structure and is working on recommendations to streamline the program and ensure consistency. SIU Facility inspections have been scheduled for October 13-14 and will be performed by Mr. Henninger and Dr. Tuttle.
- NYSDEC conducted an annual review and inspection of the facility on 8/22/16. The facility is awaiting a copy of the written report, which will be ranked "marginal" due to the condition of equipment and processes within the WWTP.

- Authority staff are continuing to work with GHD on the Preliminary Engineering Report for a capital improvement project. Initial estimates of the scope of work required at the facility are upwards of \$15M. This will be confirmed as the report is completed, which is scheduled to be done by December 2016 to support a Round 3 New York Water Grant application. Authority staff met with the Director of Public Works and GHD Staff on August 29th to begin the WWTP assessment required for the Preliminary Engineering Report. GHD staff have collected data and made several site investigation visits. Authority personnel are supporting the capital project by providing GHD with operational data, facility drawings, and having our Controls Engineer, Dan Merrill, consult on Supervisory Control and Data Acquisition (SCADA) design. Additionally, the Authority is participating in discussions with NYSEFC regarding project funding. The Development Authority completed an update to the City of Ogdensburg's NYSEFC PLUS Project listing system on 9/1 to reflect estimated project cost that more accurately reflects the scope and magnitude of the required capital improvements at the WWTP.

2) **WASTEWATER FLOWS / SIU COMPLIANCE:**

During this period the WPCF had two SPDES permit violations. These violations were for BOD and TSS removal efficiencies. The WWTP is required to have removal efficiencies of at least 85%. This period the removal efficiencies were 75% for BOD and 78% for TSS. These violations are likely a result of many plant processes not performing as designed due to several pieces of equipment being out of service or not performing properly due to age and condition. The high wet weather events may also be contributing to the violations as some of the poor results occurred in close proximity to heavy rain events when the Plant exceeded 20 MGD. Staff are working to address critical breakdowns but do not recommend replacing major components that will be too expensive for the City to address outside of an impending capital improvement project.

The average and peak gallons per day handled by the WWTP during the month of August were 3.376 and 20+ MGD, respectively. This extremely high peak flow indicates that wet weather infiltration continues to be a serious issue for the WWTP and creates high risk for SPDES permit violations due to solids being washed-out into the effluent that is discharged into the St. Lawrence River.

Each day that the flows exceed 20 MGD, indicates that there is a Combined Sanitary Sewer Overflow event. This occurred on four occasions during the month of August and was recorded on 8/6, 8/13, 8/17 and 8/22. Each of those dates was preceded by a heavy rain event. There was also indication of activity since the last monthly CSO inspection at Outfalls 002 Elizabeth/Riverside and Outfall 010A Albany Ave.

SIU Compliance

Hoosier Magnetics and Ansen Corporation submitted their quarterly SIU reports in August. Reports have been reviewed and compared to permit limits. An Excel tracking log has been created to log historical results.

Permitted SIUs discharging to the Ogdensburg WWTP are:

1. Ansen Corporation, Permit Expiration 3/31/17
2. Hoosier Magnetics, Permit Expiration 3/31/17
3. SLC SWDA, 12/31/17
4. Losurdo Foods - not active at this time; however, the Losurdo Plant Manager contacted Authority staff and indicate that they would like to begin discharging something in October. The Plant may be able to handle the additional loading/flow and this will be evaluated prior to discharge based on current Plant performance.

3) **PERSONNEL**

- Total City WWTP personnel for the month included 1 Lab Operator, 1 Mechanic, 2 Attendants, plus DPW assistance as needed.
- Overtime continues on weekends to fulfill permit sampling requirements. A total of 64 hours of OT occurred for WWTP staff for the month of August.
- Authority staff have recommended a schedule change to eliminate overtime on weekends and reviewed a Memorandum of Understanding (MOU) drafted by the City to describe schedule and proposed changes with the Union. This MOU is pending approval by the City.

4) **OPERATIONS**

a) **SLUDGE PROCESSING:**

- A total of 61 wet tons of sludge was sent to the Solid Waste Management Facility in Rodman with average solids of 32%.
- For the Month of August, digester temperatures have been recorded and monitored on a daily basis. Temperatures have been maintained within the parameters of mesophilic range providing proper vector reduction and digestion of solids. As noted in prior monthly reports, the methane gas collection system is not functioning, and it is our understanding from City personnel that the system has never been operational. A full evaluation is required and will be discussed with GHD as part of the engineering evaluation that is presently underway.
- Authority staff upgraded the cellular radios in the Mission Communications Remote Terminal Units (RTUs) located at Main St. PS, South Water St. PS, and Psych Center PS from 2G radios to 3G radios due to 2G cell service being discontinued in October. The radios were provided by Mission Communications free of charge. Also, staff have verified proper operation of lead call, lag call, and high level alarms at all three pump stations and replaced backup batteries to RTUs.

- b) **MAINTENANCE:**
Maintenance activities completed this period are presented below. Unless otherwise noted, the maintenance tasks were completed by WPCF staff.

Completed Work Orders

- 5 day per week inspections of 6 pump/lift stations.
- Monthly inspections of 17 CSOs.
- Thickener Make-Up Water Pump was taken down and cleaned of debris.
- Cleaned chlorine contact tanks.
- Primary Sludge Pump #2 - suction piping replaced and pump was rebuilt.
- Primary Settling Tank # 2 drained, scum collector repaired, collector drive lubricated, bottom sludge collector blades inspected and did not need to be replaced, upper scum collector blades replaced. Settling Tank #2 remains offline.
- Operations staff have been able to free up a “frozen” influent valve to the large primary digester. The valve is closed and the tank is no longer being fed solids, but it is being heated and mixed. The goal is to remove solids from this tank and run them through the sludge press until the tank is drawn down to a point that solids can no longer be pressed. Once the tank is emptied then it will result in less natural gas consumption for heating and more efficient use and operation with the smaller primary digester. Historical loading to the WWTP do not support the use or need for two primary digesters.
- Waste Activated Sludge (WAS) Pump #2 was repacked. Pump #1 was inspected and determined repacking was needed at this time.
- New back up batteries and LED alarm lights have been received and installed for the Main St., South Water and Psychiatric Center pump stations. Communication equipment upgrades have been completed.
- Alarms on the three main lift stations have been fully tested by D. Merrill (Authority’s Control Engineer) and WWTP Mechanic. The City may want to consider installed SCADA technology and alarms at other pump stations.

Open Work Orders

- Pump seal water flush lines in S. Main St. Pump Station have been temporarily repaired. Received quote from JMS to replace all lines. Quote received was for \$7,455 and is being reviewed to determine whether everything quoted is necessary or another quote should be obtained. Contractor may be able to utilize some gauges and other parts that are on-hand at the WWTP to reduce costs.
- The motors for Primary Clarifier Sludge Pump #2 and #3 were replaced. Motors are being evaluated to determine if they can be rebuilt.
- Thickener Pump #2 is torn apart and waiting on parts. It's scheduled for rebuild around the first of October. After that pump is put back online Pump #1 will be taken offline to evaluate. Pump #1 is not running well, but can't be serviced until Pump #2 is put back in service.
- RAS pump #1 needs rebuild and is scheduled for September. Pump has been removed. A new shaft is required and one quote for \$4,000 has been received. Authority personnel are attempting to obtain a second quote. Several spare parts are on-hand and can be used to rebuild the pump.
- Heater for intake air to downstairs pump room needs to be fixed before winter. Hydestone will be contacted to evaluate the heater to determine if it's feasible to repair/replace this outside of the capital project. WWTP personnel have indicated concern that this heater has never operated properly in the past.
- Hydrogen sulfide and oxygen sensing has been ordered. Units are awaiting installation by the City electrician and calibrated.
- Chlorine gas system has not received annual required maintenance. Authority personnel are still working to obtain quotes to assess system by outside specialist that works with chlorine gas feed systems.
- Awaiting arrival of new channel grinder for SLPC; checking station daily and cleaning racks manual while waiting for new grinder to arrive. Expect new grinder October 2016.
- Plate and Frame press has a hydraulic hose that is wearing and needs to be replaced.
- Magnetic flow meter has been ordered to replace the existing Venturi Tube style flow meter (which no longer works) at the Psych Center PS.

Open Work Orders Awaiting Capital Project

- Scum line is plugged so scum cannot be pumped to digesters; cleaning of the scum collection pit is complete. However, cleaning of the scum collector

Ms. Purdy
September 28, 2016

discharge lines may need to be addressed with capital project. In the interim, operations staff are inspecting the pit and are pumping out scum manually.

- Main Street Pump Station does not have VFDs. Pumps are cycling every 15 minutes which creates excessive wear. Recommend evaluating station for VFDs as part of capital improvement project.
- Final Settling Tank collectors and drives - Quotes for repair / replacement of all collectors and drives have been reviewed. The cost of these repairs will be several hundred thousand dollars and are too extensive to complete outside of a capital improvement project. In the interim, the tanks will be periodically drained and cleaned to help minimize denitrification of sludge.
- Main Pumps #1 and #3 need to be rebuilt; Siewert performed an assessment to evaluate repair vs. replacement. Given age, condition, and need to integrate pumps with new controls, it is recommended to be replaced with capital improvement project.
- Controls on plate and frame press do not always function and need attention; this is a lower priority given critical equipment that is inoperable at this time. This item is recommended to be addressed with capital improvement project.

a) **Operations**

Monitoring of filamentous bacteria is ongoing, which can cause problems with sludge settling. Sodium hypochlorite is setup and available, as needed, for filamentous bacteria control. No sodium hypochlorite was used during the month of September.

Should you have any questions regarding this report, please don't hesitate to contact me at 315/661-3259.

Sincerely,

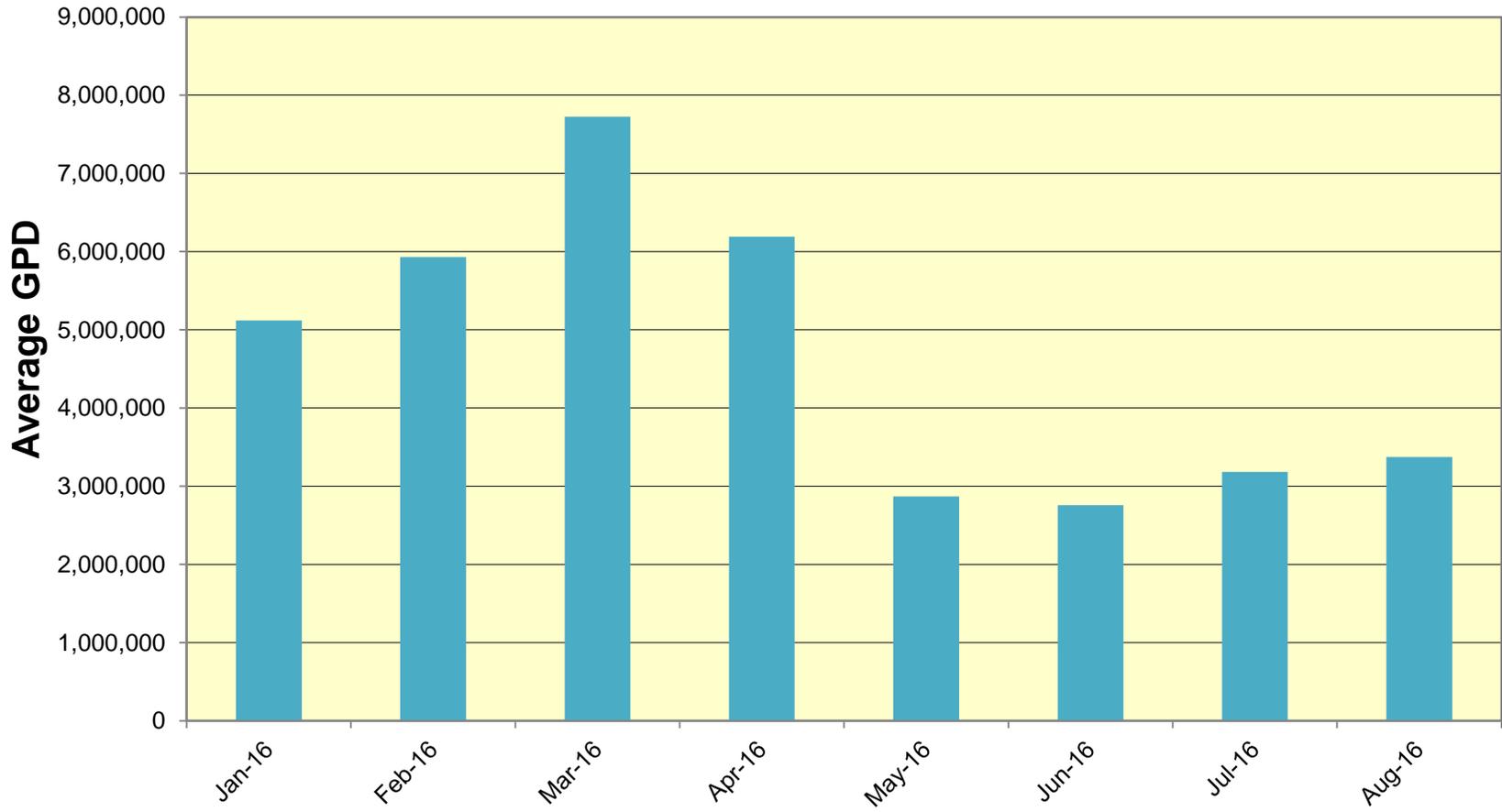
Carrie Tuttle, PhD, PE, CSP
Director of Engineering

Attachments: 1) Operational Graphs

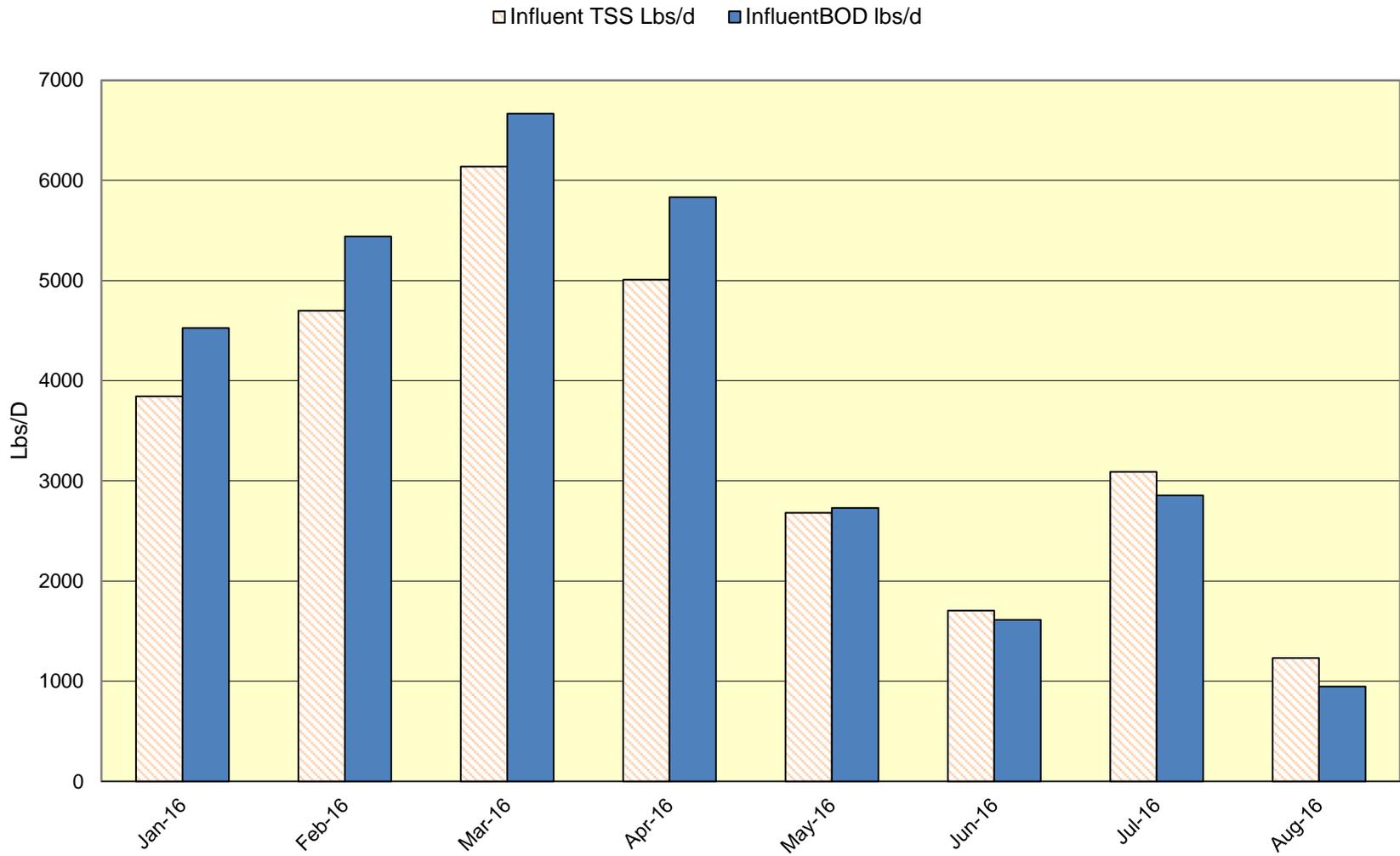
cc: David Rarick, NYSDEC
Scott Thornhill, Ogdensburg Director of Public Works
Jeff Overstrom, DANC WQ Supervisor
Robert Henninger, DANC WQ Supervisor

**City of Ogdensburg
WATER POLLUTION CONTROL FACILITY
AVERAGE DAILY FLOWS IN GALLONS PER DAY**

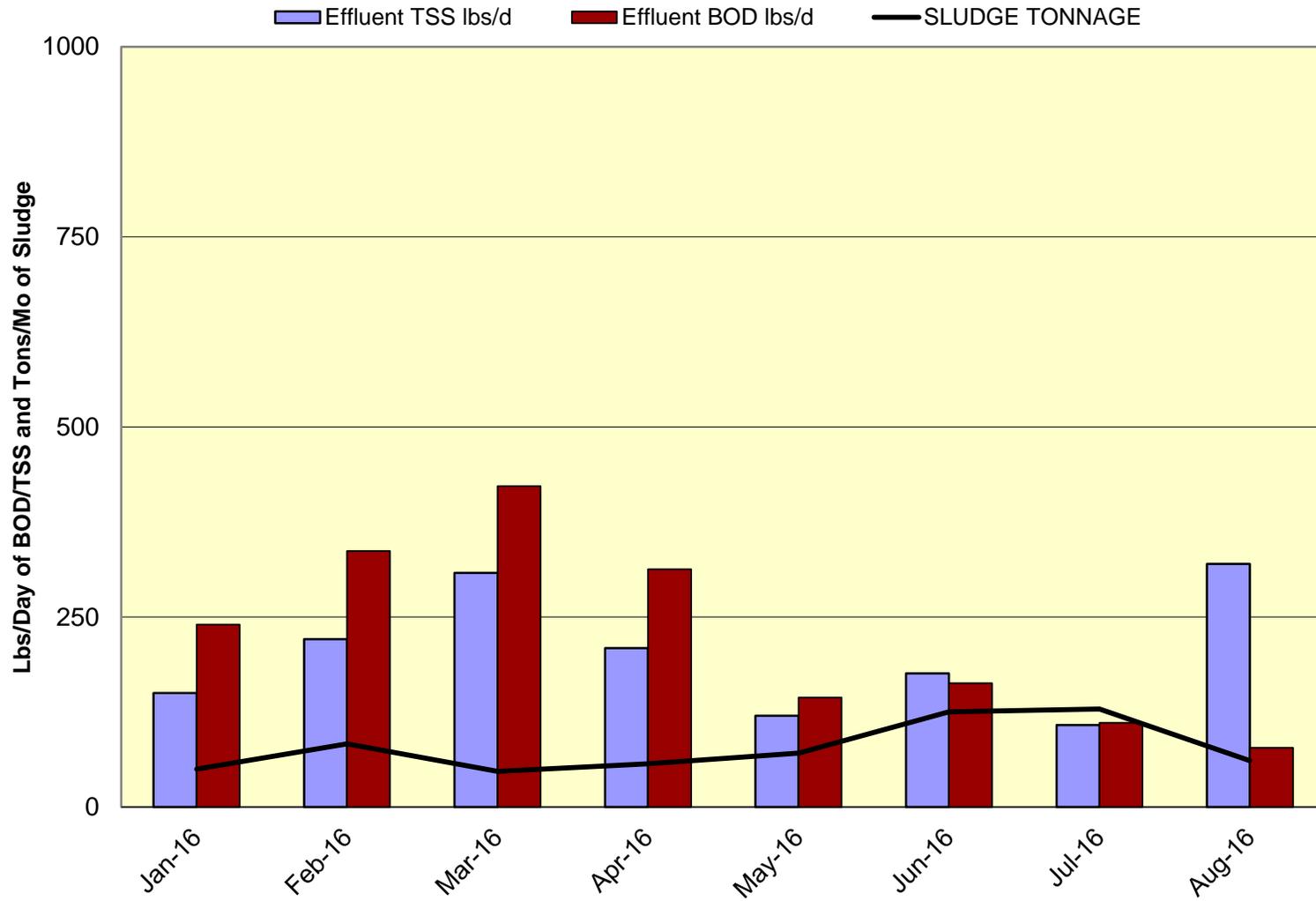
■ EFFLUENT GPD



**City of Ogdensburg
WATER POLLUTION CONTROL FACILITY
INFLUENT 30-DAY AVERAGE LBS/DAY OF TOTAL SUSPENDED SOLIDS & BOD**



City of Ogdensburg
WPCF Effluent BOD/TSS & Sludge Processed



City of Ogdensburg
Parks & Recreation Department
Director: Matthew J. Curatolo
100 Riverside Ave.
Ogdensburg, N.Y., 13669



MEMORANDUM

TO: Sarah Purdy, City Manager
FROM: Director
CC: Coralee Barrett,
DATE: 9/28/2016
SUBJECT: Arena Bleachers

On Wednesday, Sept. 28, a project to build wooden bleachers was completed on the mezzanine at the Lockwood Arena. Employees from the Ogdensburg Lowe's store worked with Parks & Recreation Department employees to finish the project which was part of the Lowe's Heroes Program. All of the materials, supplies including wood as well as labor were provided for by the Heroes Program which works on a large project each year in the Ogdensburg community.

The wooden bleachers are 60 foot long and 15 feet wide. They go up 10 feet in the air with four risers for people to sit. The completion of the bleacher project is perfect timing because staff is preparing to lay down ice for the upcoming winter season on Monday, Oct. 3. The tentative first day of ice rentals will be Oct. 8.

