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November 7, 2011

Township Supervisor
12050 Old Belding Road
Belding, MI 48809-9318

Grattan Township and Grattan/Vergennes Sewer Systems
October 2011 Monthly Operations Report

Dear Frank,

The month of October was the end of irrigation for both facilities. Both irrigation systems will be winterized in the beginning of November. The new center pivot irrigation system at the Grattan/Vergennes WWTF is being operated manually, as the radio frequency for remote operation is still pending.

The installation of the control panels continued to progress through the month of October. It is anticipated that the new panels will be operational by the end of November 2011.

As always I would be happy to elaborate on any of the submitted information or provide any additional information that would assist the township board. Please do not hesitate in contacting me.

Sincerely,



John Rydbeck
(616) 890-5768
Infrastructure Alternatives - Grattan Township Sewer System Operations Manger

Attachments: None

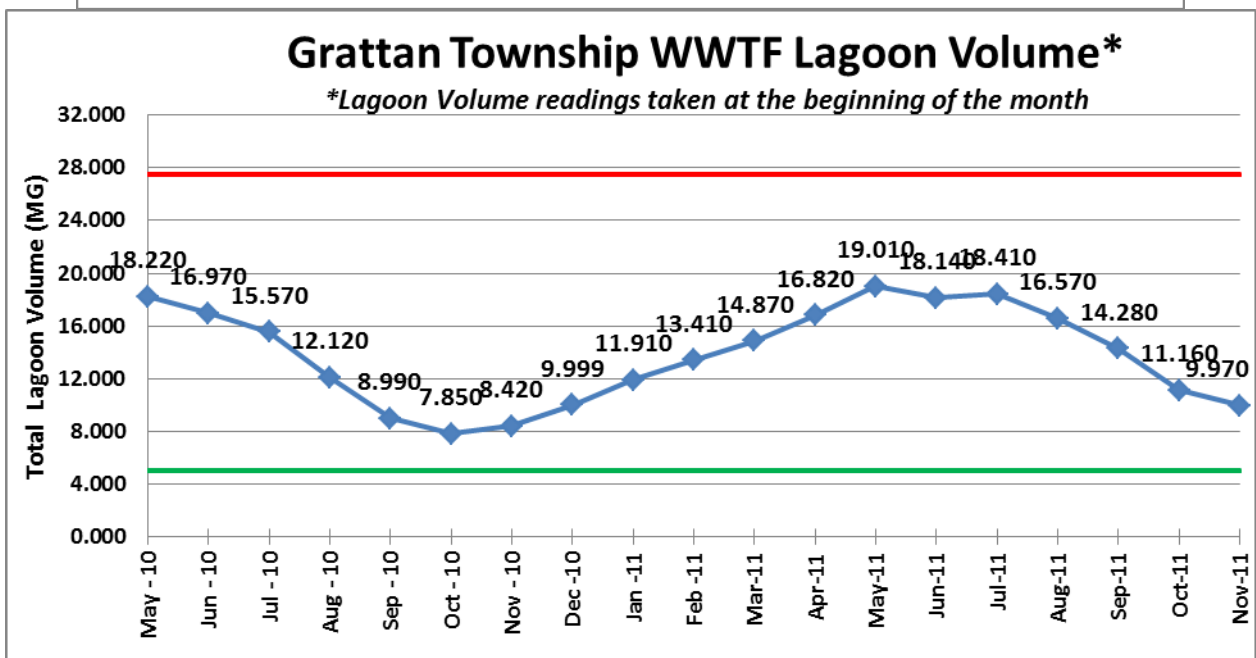
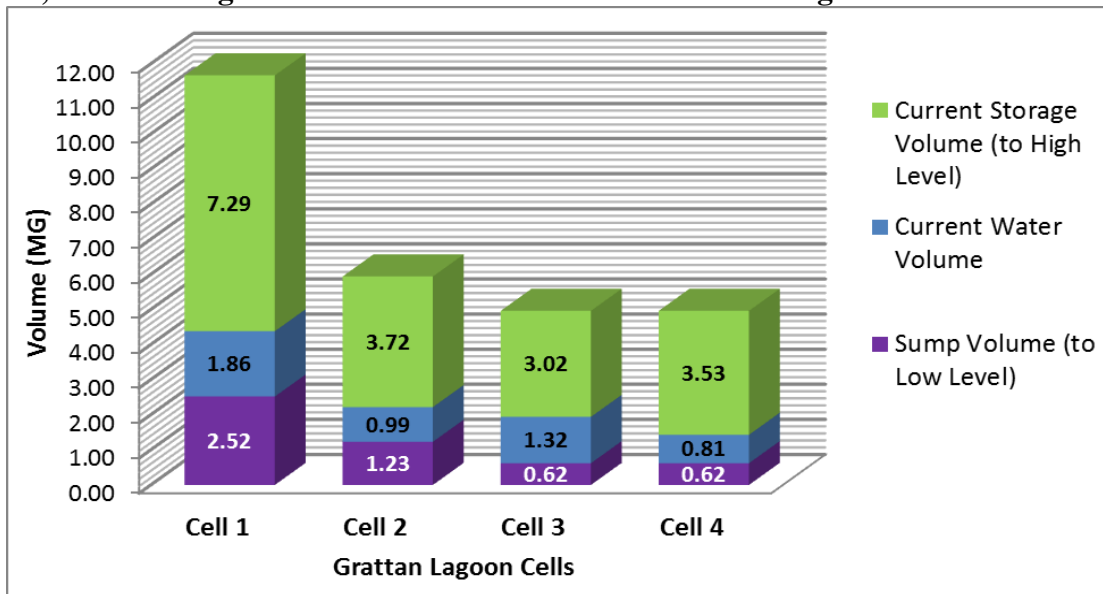
Grattan Township Wastewater System

Executive Summary:

The monthly CMR for October 2011 is currently being prepared for submission to the DNRE. There was 3.335MG discharged throughout the month of October (according to the on-site flowmeter). The wastewater influent flow for the month of October was 1.094 MG (as totalized daily by the PS #1 force-main magnetic flow meter). Rainfall for the month of October at the Grattan Township WWTF totaled 3.48 inches (data obtained from the rainfall tipping bucket and Mission telemetry system). The following shows the relationship of these variables:

$$-1.19 \text{ MG (Tot. Lag. Decrease)} = 1.094 \text{ MG (Inf.)} - 3.335 \text{ MG (Irr.)} + 1.051 \text{ MG (Net Precip./Evap)}$$

In addition, the following data shows the wastewater flow into the lagoons:



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Emergency Call-Outs:

- Wednesday October 19, 2011 5:00 p.m-8:00 p.m. Grattan-PS #5, PS #6 POWER OUTAGE: IAI on-call operator, Chris Chambers, received call from the Mission Dialers. Chris arrived on-site and provided generator power to all the stations until power was restored. No sewer overflow occurred from this event.

Preventative Maintenance:

- The preventative maintenance tasks have been completed for October 2011 and available for review upon request.

Corrective Action / Significant Tasks Completed:

- On Friday October 7, 2011 IAI operator Chris Chambers found Grattan PS#2 Pump#1 to be tripped during weekly station checks. Pulled pump and found a diaper like material lodged in the pump.
- On Wednesday October 26, 2011 IAI operator Cody Chambers began the upgrade of Grinder Pump Station Floats. Grinder Stations #1, #2 and #3 have been completed.

Pending Projects:

- The replacement of control panels according to the prioritized list obtained from the Assessment of Facilities report.
- Old Orchard site cleared of trees and stumps and ready for irrigation in spring of 2012.

Grattan/Vergennes Township Wastewater System

- **Executive Summary:** There was 2.388 MG discharged during the month of October through the new center pivot irrigation system. The wastewater influent flow for the month of October was unavailable due to a bad mother board failure on the Mission Dialer. The circuit board has been replaced and the data will be available again starting November 1, 2011. The CMR for October 2011 is being prepared for electronic submission.

Emergency Call-Outs:

- Monday October 3, 2011 12:00 p.m.-3:00 p.m. G/V-PS #5, PS #6 POWER OUTAGE: IAI on-call operator, Chris Chambers, received call from the Sensaphone Dialers. Chris arrived on-site and provided generator power to all the stations until power was restored. No sewer overflow occurred from this event.
- Monday October 3, 2011 5:00 p.m.-8:00 p.m. G/V-GPS#8 HIGH LEVEL ALARM: IAI operator Chris Chambers, received a call from the station's Sensaphone Dialer. Chris arrived on-site to both VFD controls to be tripped. Chris reset the VFD Controls and the station returned to normal working condition. No sanitary sewer overflow occurred from this event.
- Wednesday October 19, 2011 6:30 p.m.-1:30a.m. G/V-PS#16 POWER OUTAGE: IAI operator, Cody Chambers received the call from the station's Mission dialer. Cody arrived on-site and provided generator power to the station until power was restored. No sanitary sewer overflow occurred from this event.

General Operation Information / Housekeeping:

- On Tuesday October 1, 2011 IAI operator, Chris Chambers and Cody hung No Trespassing signs along the property line the runs along Murray Lake Rd.

Preventative Maintenance:

- The preventative maintenance tasks have been completed for October 2011 and available for review upon request.

Corrective Action / Significant Tasks Completed:

- On Monday October 10, 2011 IAI operator Chris Chambers found G/V PS #1 Mission Dialer to be non-functional and had Grand Tech Inc out and found mother board to be bad. New mother board was installed and the Mission Dialer was back up and running.
- On Wednesday October 12, 2011 Grand Tech Inc was out to G/V- PS #9 to begin coring holes and running conduit for the panel upgrade.
- On Thursday October 13, 2011 Grand Tech Inc installed a Mission Dialer at G/V PS #8.
- On Friday October 14, 2011 IAI operators Chris Chambers and Russ Johnson placed the repaired pump # 1 back into G/V PS #5.
- On Monday October 24, 2011 Grand Tech Inc installed a Mission Dialer at G/V PS #5, #6, #7, #8A.

Pending Projects:

- Grattan/Vergennes WWTF irrigation telemetry (radio signal) to the treatment building, stump removal, modifications of the under-drain outlets [headers], change-order addition of the remote controlled power actuated butterfly supply valves to each of the center pivots.
- The replacement of control panels according to the prioritized project list from the Assessment of Facilities Report.