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May 9, 2011

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

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

Dear Frank,

The electrical and mechanical capital improvement projects will be initiated soon awaiting finalization of the capital improvement loan. The replacement of the Grattan WWTF discharge flow meter at the DNRE's request and installation of a rainfall tipping bucket with Mission dialer telemetry has begun.

The initial inquiry into the Grattan WWTF under drains repair/replacement is currently in process.

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:

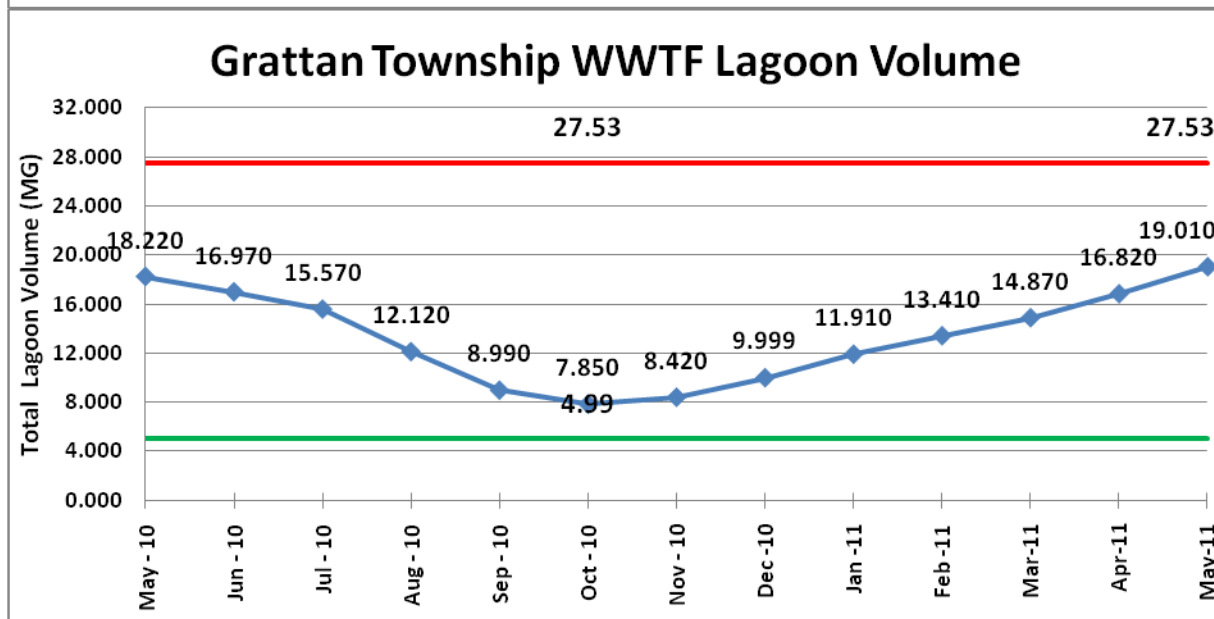
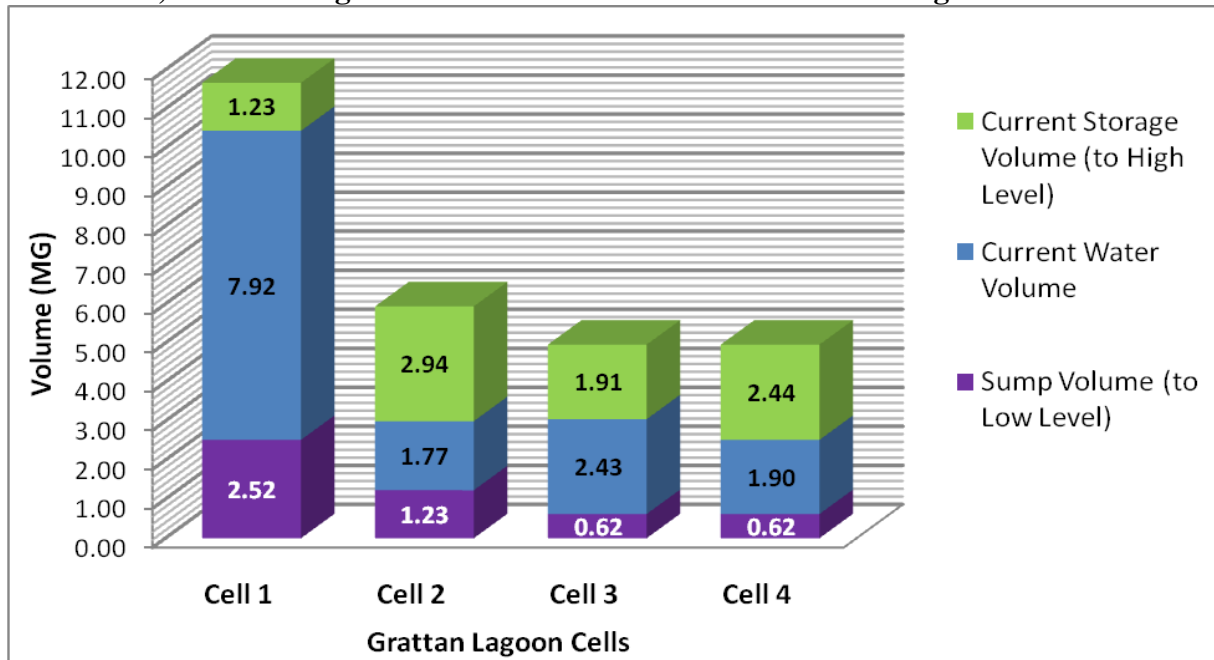
Grattan Township Wastewater System

Executive Summary:

The monthly CMR for April 2011 is currently being prepared for submission to the DNRE. The wastewater influent flow for the month of April was 1.513MG, with an additional 0.168MG from rainfall¹ (calculated from 7.19" rainfall over ~280,000ft² lagoon surface areas). The following shows the relationship of these variables:

$$2.19+MG \text{ (Tot. Lag. Dec.)} = 1.513MG \text{ (Inf.)} + 0.168MG \text{ (Rain)} - 0.000MG \text{ (Irr.)} + 0.509MG \text{ (Precipitation)}$$

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



¹ Rainfall data taken from the National Weather Service Kent County Airport Station

Emergency Call-Outs:

- Sunday April 3, 2011 9:00 a.m. – 12:30 p.m. BPI-PS#1 PUMP#2 FAILURE: IAI On-call operator, Bob Stephens, received call from the stations Mission dialer. Upon arriving on-site it was found the pump failure was caused by a seal fail. On Monday 4/4/11 the seal fail was confirmed by a megometer test performed by IAI operator, John Rydbeck. The pump was pulled by IAI staff, Robert Carlstrom and Bob Stephens, on 4/8/11 then brought to Fixall Electric for repair. IAI staff, Bob Stephens and Shane Terry installed the repaired pump on 4/29/11
- Saturday April 9, 2011 6:00 p.m. – 10:00p.m. BPI-PS#2, BPI-PS#3, BPI-PS#3a and BPI-PS#4 POWER OUTAGE: IAI on-call operator, Robert Carlstrom received alarms from the pump station’s Sensaphone and Mission dialers. Robert provided standby power to the pump stations via a portable generator for the duration of the outage. No sewer overflow or sewer back-up occurred from this event.
- Saturday April 23, 2011 1:30 a.m. – 7:30 a.m. BPI-PS#1, BPI-PS#5 and BPI-PS#6 POWER OUTAGE: IAI on-call operator, Robert Carlstrom received alarms from the pump station’s Sensaphone and Mission dialers. Robert provided standby power to the pump stations via a portable generator for the duration of the outage. No sewer overflow or sewer back-up occurred from this event.
- Saturday April 23, 2011 10:30 a.m. – 12:00 p.m. BPI-PS#5 HIGH LEVEL ALARM: IAI on-call operator, Robert Carlstrom received the alarm from the pump station’s Sensaphone dialer. Once on-site the pumps were run manually. Through troubleshooting the panels controls it was they were functioning properly. No further alarm events have occurred and no sewer overflow or sewer back-up occurred from this event.
- Saturday April 23, 2011 12:30 p.m. – 1:15 p.m. BPI-PS#1 HIGH LEVEL ALARM: IAI on-call operator, Robert Carlstrom received the alarm from the pump station’s Mission dialer. The high level was caused by the slug flow being pumped from BPI-PS#5. Robert checked the station to verify that the station was functioning properly. No sewer overflow or sewer back-up occurred from this event.
- Saturday April 30, 2011 7:00 a.m. – 10:30 p.m. BPI-PS#1, BPI-PS#5, BPI-PS#6 POWER OUTAGE: IAI on-call operator, Bob Stephens, received alarm call from the BPI-PS#1 station’s Mission dialer. Bob arrived on-site with a portable generator to provide stand-by power; the generator was parked at the station for the duration of the outage. Around 5:00 p.m. BPI-PS#5 and BPI-PS#6 called out with a power outage alarm. IAI operator, Robert Carlstrom, received the call and staged portable generators at the pump stations for the duration of the power outage. No sewer overflow or sewer back-up occurred from this event.

Preventative Maintenance:

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

Corrective Action / Significant Tasks Completed:

- Friday April 8, 2011 BPI-PS#1 Pump 2 pulled by IAI staff, Robert Carlstrom and Bob Stephens, then brought to Fixall Electric for repair
- Friday April 29, 2011 BPI-PS#1 Pump 2 was put back into service by IAI staff, Bob Stephens and Shane Terry.

Pending Projects:

- New Influent [magnetic] flow meter at BPI-PS #1 to monitor influent flow and log to Mission dialer.
- The replacement of control panels according to the prioritized list obtained from the Assessment of Facilities report.

Grattan/Vergennes Township Wastewater System

Executive Summary: There was no discharge during the month of April. There was no construction on irrigation upgrade project. The CMR for April 2011 is being prepared for submission.

Emergency Call-Outs:

- Wednesday April 6, 2011 6:00p.m. - 9:00p.m. ML-PS#9 HIGH LEVEL ALARM: IAI on-call operator, Robert Carlstrom, received the alarm call from the station's Sensaphone dialer. It was found that pump 1 was to be tripped out and showed high amps. The following day the pump was pulled, unplugged and replaced the pumps cutters.
- Thursday April 7, 2011 p.m. - a.m. RL-PS#15 HIGH LEVEL ALARM: IAI on-call operator, Robert Carlstrom, received alarm call from the pump station's Mission dialer. The alarm condition was monitored via the Mission Dialer website. No sewer overflow occurred from this event.
- Friday April 15, 2011 5:30p.m-9:00p.m. RL-PS#16 POWER OUTAGE: IAI on-call operator, Bob Stephens, received alarm call from the pump station's Mission dialer. Bob arrived on-site with a portable generator to provide standby power. No sewer overflow occurred from this event.
- Saturday April 23, 2011 12:00 a.m. – 1:30 a.m. ML-PS#12 RESIDENT CALLED: IAI on-call operator, Robert Carlstrom, received call from Cunningham Communications. The resident heard a gurgling sound from the toilets in the basement which in the past had preceded a back up. Robert arrived on site to find the station functioning properly. The resident was called back and verified no back occurred. No sewer overflow occurred from this event.
- Tuesday April 26, 2011 6:00 p.m. – 7:30 p.m. BCL-PS#14 HIGH LEVEL ALARM: IAI on-call operator, Bob Stephens, received alarm call from the pump station's Mission dialer. Bob arrived on-site to find that pump 2 as tripped out. Pump 1 was put into the lead position and pump 2 was pulled on Friday April 29, 2011 by IAI staff Robert Carlstrom and Russ Johnson. It was found that the outside cutter ring had worn through the bolts holding it in place and had falling off. A 3hp myers grinder pump that had been rebuilt was able to replace the faulty pump.
- Wednesday April 27, 2011 7:00 a.m. – 8:00 a.m. ML-PS#11 HIGH LEVEL ALARM: IAI on-call operator, Robert Carlstom, received alarm call from the pump station's Mission dialer. Robert arrived on-site to find that pump 2 as tripped out. Pump 1 was put into the lead position and pump 2 was pulled on Friday April 29, 2011 by IAI staff Robert Carlstrom and Russ Johnson. No sewer overflow occurred from this event.

General Operation Information / Housekeeping:

- The construction permit for the irrigation upgrade is currently being reviewed by the MDNRE. Funding and presenting construction bids will formally begin after a construction permit is issued.

Preventative Maintenance:

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

Corrective Action / Significant Tasks Completed:

- Friday April 1, 2011 IAI operators, Robert Carlstrom and Jim Lavelle installed pump 2 from ML-PS#9 which was repaired at Fixall Electric.
- Tuesday April 5, 2011 IAI operator, Robert Carlstrom, replaced capacitors and shorted out wires in ML-PS#9 control panel.
- Thursday April 7, 2011 IAI staff, Robert Carlstrom and Conrad Bowman, pulled and replaced the cutters on ML-PS#9 pump 1.
- Friday April 29, 2011 IAI staff Robert Carlstrom and Russ Johnson pulled pump 2 from BCL-P#14. It was found that the outside cutter ring had worn through the bolts holding it in place and had falling off. A 3hp myers grinder pump that had been rebuilt was able to replace the faulty pump.
- Friday April 29, 2011 IAI staff Robert Carlstrom and Russ Johnson pulled and unplugged pump 2 from ML-PS#11.

Pending Projects:

- A new influent [magnetic] flow meter at BCL-PS #1 for influent monitoring.
- Grattan/Vergennes WWTF irrigation upgrade.
- The replacement of control panels according to the prioritized project list from the Assessment of Facilities Report.
- New pump mounts installed at BCL-PS #1 and ML-PS 6.
- A spare parts inventory is being generated.