

9-28-16

## **Algoma Public Works Committee meeting Sept 27<sup>th</sup> 2016 @ 4:00 pm**

Meeting was called to order by at 4:00 pm at Algoma City Hall

Members Present: Hunts Nell, Dave Meyer, Jacque Wiese, J. Barlow & Lee Dachelet

Absent: Kelly Koss

Others: Mike Decur & Troy Seidl

Approval of the Agenda: Motion by J. Barlow 2<sup>nd</sup> J. Wiese MC

Approval of the August 30<sup>th</sup> 2016 meeting minute's: Motion by H. Nell 2<sup>nd</sup> D. Meyer MC

### **NO PUBLIC COMMENT**

**Presentation of the Bills:** Motion to approve by J. Barlow 2<sup>nd</sup> D. Meyer MC

**Wastewater Treatment Report-SUEZ- Troy Seidl:** All Effluent quality were in parameters for the month. Due to high rain fall on August 20th had a little trouble with leakage around the Clarifier #2 put keep under control. Supplied proper document to the DNR for future reference. Updated the Emergency contact info @ Kewaunee Sheriff Dept. Annual maintenance done and No call out in month of August. (See attached Suez Report)

**Public Works Report- M Decur:** Ongoing Summer maintenance, pavement patching, storm sewer cleaning, sewer flushing street sweeping. Tree removal Equipment repair and maintenance.

NEW Dump truck specs sent to Jeff Wiswell waiting on further report.

Continue working with Parks & Rec Dept. on the Ice Rink.

NEW Storm Water Pump has arrived and in service.

Report on 2017 Budget review and discussion on items for the committee. Continue for next month.

WWTF: Updates on Strand Associates on UV system waiting on funds & bidding (early winter completion). Clean water Fund Program application due Fri should be done and sent out.

**Marina:** Report- All's on schedule w/ maintenance summer operation is over CLOSING date- Oct 15<sup>th</sup> 2016.

**Old Business:** Bid on Tuesday Nov 1<sup>st</sup> for the UV System – Again early winter completion.

Working on the specs and waiting on bids for the alley repair between 3<sup>rd</sup> & 4<sup>th</sup> St.

Phragmites -M. Decur is waiting on specialist from Kewaunee County Health Dept. on proper control of the species.

Budget update and discussion look over and discuss more at October meeting.

**New Business:** Sewer Credit- 1025 Lake St. – Credit of \$120.56- Motion by J. Barlow 2<sup>nd</sup> H. Nell MC

**Next Meeting-** October 18<sup>th</sup> @ 4:00 pm City Hall.

Motion to Adjourn by J. Barlow 2<sup>nd</sup> J. Wiese MC

**Meeting adjourned @ 4:50 pm**

**LD/Chairman**



**City of Algoma WWTP  
Monthly Report – August 2016**

**1. Wastewater Effluent Quality**

Effluent quality for August was within the parameters regulated by the WPDES in permit # WI-0020745-08-0. Total wastewater treated in August was 17,927,000 gallons. The following table lists the effluent concentrations based on data available at the time of this report; further analysis may be pending.

**Table 1A Nutrients**

	Parameter	BOD <sub>5</sub> mg/l	TSS mg/l	Ammonia-N mg/l	Total-P mg/l
<b>Monthly Values</b>	Minimum	<2.0	<1.0	<0.045	0.4
	Maximum	8.2	7.0	1.8	0.8
	Average	2.7	2.7	0.1	0.57
<b>Limits</b>	<b>Monthly Average</b>	<b>10</b>	<b>10</b>	<b>3.3 June – September</b>	<b>1.0</b>

**Table 1B Other Parameters**

	Parameter	pH	Fecal coliform	Dissolved Oxygen	Effluent Temp.
<b>Monthly Values</b>	Minimum	7.6	<1	8.5	19.7
	Maximum	7.8	91	9.0	21.3
	Average	7.7	Geo Mean 5.9	8.8	20.4
<b>Limits</b>		<b>&gt;6 &amp; &lt;9</b>	<b>&lt;400#/100 ml</b>	<b>&gt;7.0 mg/l</b>	<b>&gt;10<sup>0</sup>C</b>

**2. Chemicals**

The following table outlines the chemical use for the month. These amounts are estimates based on daily use and application rate.

**Table 2A**

Chemical	August 2016
Aluminum Sulfate	1200 gallons
Polymer	16 gallons

### 3. Operations

- a. Faith Technologies has completed the Arc Flash survey with the delivery of updated plant electrical drawings and installation of hazard labels on applicable electrical panels.
- b. Heavy rainfall (1.44Mgd) on the morning of Saturday August 20 caused a treatment facility overflow from the same location as last month. Many facility adjustments were made to ensure no other treatment processes were interrupted. A physical flaw in the concrete of Primary Clarifier 2 allowed a small volume of primary effluent to seep through a seam on to the ground. A small channel was dug along the tank wall, which allowed most of the flow to be captured with a sump pump and returned to the head of the treatment facility. The Treatment Facility Overflow (TFO) was immediately reported to the WDNR and the proper reports and public notifications have been made.
  - Tank repair quotes were received in August and approved in early September. We are waiting on the contractor, KLM Engineering, to schedule the repairs.
- c. Annual chemical inventories have been updated for both the laboratory and the treatment facility.
- d. SDS's have been updated as required annually.
- e. The Channel Monster® influent grinder failed with an oil over temperature error. The unit was allowed to cool, washed off, and visually inspected. No obvious cause of overheating could be identified and the unit has been restarted and operating without issue for over a month.
- f. The emergency contact information posted at each lift station has been updated to include the Kewaunee County Sheriff Dispatch telephone number. The contact information and instructions provided to the Sheriff's department has also been updated to reflect current staffing.

The updated signs are bright yellow, larger, and include unique location information that a member of the public can relay to the Sheriff's Department dispatcher.

A lift-station location map has been created and log sheet documentation has been updated to mirror the unique location identifiers.
- g. Waste Activated Sludge (WAS) pump 1 has been rebuilt by Vacuum Pump and Compressor of Green Bay. The pump has been installed, tested, and placed back into service.
- h. Supernatant has been siphoned from the Harvestore/sludge storage tank, creating more room for treated biosolids. The supernatant will be treated in Aeration basin 3 and returned to the headworks when its ammonia level drops.
- i. We have received a quote to replace an 18" valve that is leaking in the tunnel of the headworks building. Suez staff is looking into the possibility of rebuilding the valve in house. The leak is currently being contained and routed through a hose to a nearby submersible pump.
- j. A contract has been signed with Full Service Organics to haul and land apply biosolids in the fall.

### 4. Maintenance Activities

- k. Digester compressor 1 (gas mixer) failed due to a plugged cooling line. The blockage was removed and the unit has been placed back in service. The components related to the compressor (filter, flow restrictor, gas/water separator, piping) have been cleaned.

Digester compressor 2 also received the same maintenance.

- l. Bearings were replaced on Grit pump 1 as called for in the vibration analysis.
- m. Annual maintenance has been completed on the Backup generator. Maintenance included replacement of the oil filter and oil, air filter, and both fuel filters. The belts, hoses, and battery were inspected. The block heater breaker was tripped. An inspection of the breaker revealed a loose connection that has now been corrected. Winter blend diesel, to top off the fuel tank, will be ordered in October.
- n. Suez staff exercised the emergency generator, each week, for thirty minutes.
- o. The receiving station 6" hose was partially broken at the end of the cam-lock fitting. The hose has been cut off at the break and reinstalled.
- p. Effluent sampler tubing has been replaced.
- q. The new stop gate, at the end of Aeration basin 3, was closed to allow for cleaning of Secondary clarifier 2. The tank was out of service for three days.
- r. Equipment inspected and greased in accordance with the preventative maintenance program included, but was not limited to: Re-use water booster pump (Thickener), Grit classifier, Thickened sludge pumps 1 and 2, Digested sludge pumps, Piston pumps, Primary clarifiers, Secondary clarifiers, Gravity belt thickener roller bearings, blowers and Re-use water pumps.
- s. Safety eyewashes, safety showers and fire extinguishers have been tested and or inspected.
- t. There were no after hour's call-outs in the month of August. (Table 4A)

**Table 4A**

Date	Issue	Action Taken
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The following table outlines the expenditures and remaining value of the maintenance cap through the end of the contract year. There are additional budget items for August that were not included at the time this report was prepared and will be included with next month's report.

**Table 4B**

2016 Maintenance Cap		Monthly contribution	Total contribution	Remaining value	Remaining percent
\$27,195.35	January	\$1,694.21	\$1,694.21	\$23,502.35	93.28%
	February	\$2,390.54	\$4,048.75	\$21,111.81	83.79%
	March	\$1,595.77	\$5,680.52	\$19,516.04	77.46%
	April	\$542.68	\$6,223.20	\$18,973.36	75.30%
	May	\$1,598.25	\$7,821.45	\$17,375.11	68.96%
	June	\$2,703.27	\$10,524.72	\$14,671.84	58.23%
	July	\$2,579.68	\$13,104.40	\$12,092.16	47.99%
	August	\$97.20	\$13,201.60	\$11,994.96	47.61%

## **5. Upcoming activities**

- a. Concrete repairs and resurfacing of the outfall channel of Primary Clarifier 2.
- b. Bay Electric Systems will be on site to evaluate and repair items from a list that includes a possible replacement of the variable frequency drive on Effluent Pump 2, and troubleshooting a reoccurring failure of Pump 2 at the Steel Street Lift Station.
- c. Continued correction of vibration analysis findings.
- d. Repair of an 18" valve that requires working at height and use of a fall arrest system.
- e. Working with Strand Associates on the UV system upgrades.

## **6. Training, safety and other**

- a. Suez staff individually completed various online training topics that are required annually or biannually.
- b. The site safety inspection performed this month covered the facility outdoor areas and lift stations.
- c. Safety tailgate talks are conducted weekly.

## **7. Odor and Noise**

- a. There were no odor or noise complaints registered in August.