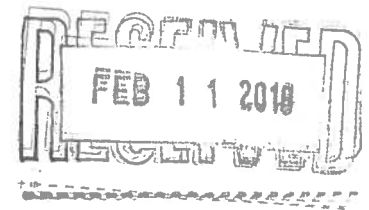


11459A

From: Rebecca Marshall <RMarshall@ocwa.com>
Sent: Sunday, February 11, 2018 1:09 PM
To: Elaine Gunnell; Roxanne St. Germain
Cc: Eric Nielson; Yvan Rondeau; Rebecca Marshall
Subject: Temagami Operations Report - 4th Quarter 2017
Attachments: Temagami Operations Report Oct to Dec 2017.pdf



Good Afternoon,

Please find attached: the fourth quarter operations Report for the Temagami North and South Water and Wastewater Systems.

Regards,
Rebecca Marshall | Process and Compliance Technician | North Eastern Ontario Hub | Ontario Clean Water Agency | Tel: 705-648-4267 | Fax: 705-567-7974 | Email: rmarshall@ocwa.com

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Temagami North & South Water & Wastewater Systems

OPERATIONAL OVERVIEW

OPERATIONS & MAINTENANCE

- All preventative maintenance completed as per the work management system
- All microbiological and chemical sampling completed as per O. Reg 170
- Temagami South WTP turbidity meter for filter #2 was repaired
- Temagami South WTP PLC power supply was replaced

INCIDENTS & COMPLAINTS

Temagami North

- Sodium adverse: result of 26.5 mg/L (limit = 20 mg/L) collected from a POE sample on October 10th. MOECC SAC and MOH were notified. Resample collected on October 18th (Na result = 23.7 mg/L). No further action required. AWQI# 137330

Temagami South

- Turbidity Adverse: Filter #2 turbidity analyzer stopped working at approximately 10:00 on Oct.12/2017. The analyzer was repaired and put back into service at approximately 15:00 on Oct.2/.17. The turbidity was not measured during this time. Water was directed to users from 10:04 to 11:00 and from 12:53 to 13:34 during the time frame that the turbidity analyzer was not working. The meter was not programmed to alarm if the bulb burnt out so the operator didn't discover the issue until checking the trends. The analyzer will now alarm if the bulb burns out. MOECC SAC and MOH notified. AWQI# 137009.
- Sodium adverse: result of 23.1 mg/L (limit = 20 mg/L) collected from a POE sample on October 10th. MOECC SAC and MOH were notified. Resample collected on October 18th (Na result = 19.4 mg/L). No further actions required. AWQI# 137332

QUALITY & ENVIRONMENTAL MANAGEMENT SYSTEM (QEMS) PROGRESS

- The Annual Management Review Meeting for the Temagami North and South Drinking Water Systems took place on December 8, 2017 and minutes have been emailed. This meeting is a requirement of the DWQMS.

MOECC INSPECTIONS & FINDINGS

- Temagami South Lagoon was inspected by the MOECC on August 2, 2017; the report was issued on December 21, 2017. The only required action was that a plan be in place to ensure that the seasonal discharges are in accordance with the effluent objectives in the Environmental Compliance Approval. This action is required because the TSS limits were exceeded during the 2016 spring discharge and the BOD objective was exceeded during the 2017 spring discharge. Plans are being made to remove the sludge from the lagoon in the upcoming spring and this will resolve the issue.
- Temagami North DWS and Temagami South DWS were both inspected on November 23rd, 2017 but neither report has been received yet.

HEALTH & SAFETY

- The monthly Health and Safety inspections were completed. No issues to report at this time.
- Training: Slips, Trips & Falls, Winter/Defensive Driving and Asbestos Safety

2017 CAPITAL PLAN SUMMARY

Temagami North Water Treatment Plant	
Proposed Expenditure	Status
Clearwell inspection and cleaning if required (should be done every 5 years)	Deferred to 2018
Submersible Pump – to supply flow to the plant when the high lift pumps are unavailable	Deferred to 2018
Inspection of Plant Intake Structure	Approved – CWWF (spring 2018)
Ultrasonic level measurement device for the chemical tanks (process optimization)	Ready to install
Emergency Generator – load test (prescribed in CSA guidelines)	Completed
Chlorination system at the tower (low residuals in parts of the system – MOECC concerned)	Deferred to 2018
Replace Turbidity Meters (current meters are failing: compliance issue)	Deferred to 2018
Relocation of Post pH adjustment & Installation of pH meter (improve operation monitoring)	Deferred to 2018
Chemical Pump parts (repairs and maintenance)	Deferred to 2018
Installation of a SCADA system (improve operation, control, monitoring and reporting)	On hold
Generator – Annual Service	Completed

Temagami North Lagoon

Proposed Expenditure	Status
Lagoon clean out and upgrade to existing equipment (EXP working on lagoon optimization)	Waiting for Approval
Generator at Spruce Drive Pump Station (Annual Service)	Waiting for Approval

Temagami South Water Treatment Plant

Proposed Expenditure	Status
Replace Emergency Generator	In progress
Inspection of Plant Intake Structure	Completed
Ultrasonic level measurement device for the chemical tanks (process optimization)	Ready to install
Relocation of Post pH adjustment & Installation of pH meter (improve operation monitoring)	Deferred to 2018
Chemical Pump parts (repairs and maintenance)	Deferred to 2018
Installation of a SCADA system (improve operation, control, monitoring and reporting)	On hold
Generator – Annual Service	No longer needed

Temagami South Lagoon

Proposed Expenditure	Status
Sludge Removal (yearly from south cell)	Approved – CWWF (spring 2018)

CALL-BACK SUMMARY

System	Call-Backs this Quarter	Total Call-Backs to Date
Temagami North WTP	7	31
Temagami North Lagoon	2	19
Temagami South WTP	5	21
Temagami South Lagoon	1	1
Total	10	57

Please see Appendix A for Call-Back details

DRINKING WATER SYSTEM PERFORMANCE SUMMARY

Temagami North Drinking Water System	Oct	Nov	Dec	Compliance
Maximum Daily Raw Flow Volume (m ³ /d)	272	528*	198	Max 460
Maximum Peak Raw Flow Rate (L/min)	435	452.4	409	Max 456
Maximum Treated Flow (m ³ /d)	242	316	192	Max 328
Total Treated Flow (m ³)	3,878	4,033	4,352	-
Free Chlorine Residual from analyzer (mg/L)	1.22 to 1.65	1.18 to 1.78	1.22 to 1.71	Min 0.85
Distribution Chlorine Residual (mg/L)	0.15 to 1.41	0.39 to 1.20	0.36 to 1.42	Min 0.05
Filter 1: % of time turbidity was < 0.3 NTU	100	100	100	Min 95%
Filter 2: % of time turbidity was <0.3 NTU	100	100	100	Min 95%

**high flows (Nov. 27) due to increased back washes because of high turbidity*

Temagami South Drinking Water System	Oct	Nov	Dec	Compliance
Maximum Daily Raw Flow Volume (m ³ /d)	273	405	277	Max 1,005
Maximum Peak Raw Flow Rate (L/min)	615	641	606	Max 700
Maximum Treated Flow (m ³ /d)	266	344	266	Max 950
Total Treated Flow (m ³ /d)	4,484	4,832	5,742	-
Free chlorine residual from analyzer (mg/L)	1.18 to 1.94	1.13 to 1.79	1.16 to 2.68	Min 1.00
Distribution chlorine residual (mg/L)	0.25 to 1.69	0.43 to 1.53	0.54 to 1.50	Min 0.05
Filter 2: % of time turbidity < 0.3 NTU	99.9	100	100	Min 95%

WASTE WATER TREATMENT SYSTEM PERFORMANCE SUMMARY

Temagami North Lagoon	Oct	Nov	Dec	Compliance (ECA)
AS PER THE ENVIRONMENTAL CERTIFICATE OF APPROVAL				
Average Daily Flow - Influent (m ³ /day)	194	301	319	Max 390 (annual average)
Max Daily Flow (m ³ /day)	295	825	972	Max 1,200/day
Total Volume Treated (m ³)	6,004	9,018	9,902	-
cBOD ₅	2.1	1.8	1.8	25 mg/L (annual average)
Total Suspended Solids	2	<1	<1	25 mg/L (annual average)
Total Phosphorous	0.021	0.031	0.048	1.0 mg/L (annual average)
Total Ammonia Nitrogen (mg/L)	2.55	2.06	2.28	-
pH	6.91 to 7.71	7.3 to 7.53	7.4 to 7.5	6.0 to 9.5 (inclusive)
<i>Escherichia coli</i> (<i>E. coli</i>) (cfu/100mL)	20	1000	2700	Geometric Mean of 200 (objective)
AS PER WASTEWATER SYSTEM EFFLUENT REGULATIONS (WSER)				
cBOD ₅	2.1	1.8	1.8	25 mg/L (quarterly average)
Total Suspended Solids	2	0.5	0.5	25 mg/L (quarterly average)

Temagami South Lagoon	Oct	Nov	Dec	Compliance (ECA)
AS PER THE ENVIRONMENTAL CERTIFICATE OF APPROVAL				
Average Daily Flow - Influent (m ³ /day)	113	131	151	Annual Average of 232
Total Volume Treated (m ³)	3,498	3,922	4,677	-
Discharge Flow (m ³ /day)	1,041	1,041		Max 2877.12
BOD5 (mg/L)	10.2	2.75		25 mg/L (seasonal average)
Total Suspended Solids (mg/L)	16.8	6.75		25 mg/L (seasonal average)
Total Phosphorous (mg/L)	0.177	0.106		1.0 mg/L (seasonal average)
Total Ammonia Nitrogen (mg/L)	2.06	3.28		-
Prior to Discharge Sampling				
Total Phosphorous (mg/L)	0.139			-
Hydrogen Sulphide (mg/L)	<0.02			-
<i>Escherichia coli</i> (<i>E. coli</i>) (cfu/100mL)	<5			-
AS PER WASTEWATER SYSTEM EFFLUENT REGULATIONS (WSER)				
cBOD5	9	2.4		25 mg/L (annual average)
Total Suspended Solids (TSS)	16.8	6.75		25 mg/L (annual average)

Began discharging on October 16th and ended on November 6th

APPENDIX A

CALL BACK REPORTS

Work Order Call Back Details Report

344624: High/Low Clearwell Level 6028

Asset:
Location: 6028 Temagami South Water Treatment Plant

Page Time:	05/05/2017 06:30 PM
Arrive time:	05/05/2017 07:25 PM
Leave time:	05/05/2017 07:35 PM
Finish Time:	12/18/2017 03:00 PM
Report Date:	5/5/17
Reported By:	Claude Mongrain
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification	REFURBISH/REPLACE
GL Account:	

Work Order Call Back Details Report

506545: Call in High Level alarm Tem N WTP 6030

Asset:
Location: 6030-WTTM 6030, Temagami North WTP

Page Time:	10/10/2017 04:30 AM	Site:	OCWASITE
Arrive time:	10/10/2017 02:45 PM	Priority:	5
Leave time:	10/10/2017 05:15 AM	Work Type:	CALL
Finish Time:	10/11/2017 03:49 PM	Status:	CLOSE
Report Date:	10/11/17	Classification	REFURBISH/REPLACE
Reported By:	Chris Barkhouse		
Supervisor:		GL Account:	TEMAGM6030W-000

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	INSTTECH	Chris Barkhouse	00:00	04:00

Log		
Date	Created By	Description
10/11/17	Chris Barkhouse	
Respond to Hi/Lo level alarm. Came in to plant and reviewed trends on Wonderware and confirmed it was not a low level alarm and low lift pumps were off. Alarm was now off and plant was not in immediate danger. Informed operator to look at when there.		



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Work Order Call Back Details Report

509653: call plant shut 6030 wtp

Asset:
Location: 6030-WTTM-P 6030, Temagami North WTP, Process

Page Time:	10/29/2017 01:45 PM	Site:	OCWASITE
Arrive time:	10/29/2017 02:45 PM	Priority:	5
Leave time:	10/29/2017 03:00 PM	Work Type:	CALL
Finish Time:	10/29/2017 04:00 PM	Status:	COMP
Report Date:	10/30/17	Classification	REFURBISH/REPLACE
Reported By:	Claude Mongrain		
Supervisor:		GL Account:	TEMAGM6030W-000

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	MECHANIC	Claude Mongrain	00:00	04:00

Log		
Date	Created By	Description
10/30/17	Claude Mongrain	call plant shut down

Work Order Call Back Details Report

541483: Call for chem pump Fail Tem North WTP

Asset:
 Location: 6030-WTTM 6030, Temagami North WTP

Page Time:	11/13/2017 06:45 PM
Arrive time:	11/13/2017 07:15 PM
Leave time:	11/13/2017 08:00 PM
Finish Time:	11/13/2017 08:00 PM
Report Date:	11/14/17
Reported By:	Bryce Logan
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification	REFURBISH/REPLACE
GL Account:	TEMAGM6030W-000

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	INSTTECH	Bryce Logan	00:00	08:00

Log		
Date	Created By	Description
11/14/17	Bryce Logan	Chem pump Fail
Call for chem pump Fail this problem was caused due to having to remove power supply to temporarily get Temagami south plant making water due to its power supply failure.		
11/14/17	Bryce Logan	pump fail
both sets of soda ash pumps were tripped.		

Work Order Call Back Details Report

543073: call temagami north low clear well 6030

Asset: 0000115717 ANALYZER TURBIDITY FILTER 02
Location: 6030-WTTM-P-PC- 6030, Temagami North WTP, Process, Process Controls, Filtration
FILT

Page Time:	11/27/2017 04:45 PM
Arrive time:	11/27/2017 05:15 PM
Leave time:	11/27/2017 05:30 PM
Finish Time:	11/27/2017 05:45 PM
Report Date:	11/28/17
Reported By:	Claude Mongrain
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification	REFURBISH/REPLACE
GL Account:	TEMAGM6030W-000

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	MECHANIC	Claude Mongrain	00:00	04:00

Log		
Date	Created By	Description
11/28/17	Claude Mongrain	call low clear well
low clear well due to high ph high lift not running ,filter turb. high filtering to wasted still injecting soda ash		

Work Order Call Back Details Report

543084: Low Tower Alarm

Asset:
Location: 6028-WTTM 6028, Temagami South WTP

Page Time:	11/25/2017 03:30 AM
Arrive time:	11/25/2017 04:15 AM
Leave time:	11/25/2017 05:00 AM
Finish Time:	11/25/2017 05:00 AM
Report Date:	11/28/17
Reported By:	Bryce Logan
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification:	REFURBISH/REPLACE
GL Account:	TEMAGM6028W-000

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	INSTTECH	Bryce Logan	00:00	04:00

Log		
Date	Created By	Description
11/28/17	Bryce Logan	Low Tower Alarm

Call for low tower alarm. Found the both low lifts were locked out on the PLC since Thursday. reset low lifts and everything started back up and is running properly. Looks like pumps tripped after the divers did their inspection when they turned the lowlifts off and locked them out.

Work Order Call Back Details Report

563647: call low cl2 tem. south wtp 6028

Asset: 0000277351 ANALYZER CHLORINE 01 RESIDUAL TREATED
Location: 6028-WTTM-P-PC 6028, Temagami South WTP, Process, Process Controls

Page Time:	11/30/2017 04:00 AM	Site:	OCWASITE
Arrive time:	11/30/2017 04:05 AM	Priority:	5
Leave time:	11/30/2017 04:15 AM	Work Type:	CALL
Finish Time:	11/30/2017 04:30 AM	Status:	COMP
Report Date:	12/1/17	Classification:	REFURBISH/REPLACE
Reported By:	Claude Mongrain		
Supervisor:		GL Account:	TEMAGM6028W-000

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	MECHANIC	Claude Mongrain	00:00	04:00

Log		
Date	Created By	Description
12/1/17	Claude Mongrain	call low cl2
due to faulty cl17 dip to aprox. 0.8 for 2 minute		

Work Order Call Back Details Report

564801: call low clear well tem. north wtp 6030

Asset: 0000115971 TANK CLEAR WELL 02
Location: 6030-WTTM-P-SR 6030, Temagami North WTP, Process, Storage

Page Time:	12/01/2017 12:00 AM
Arrive time:	12/01/2017 01:05 AM
Leave time:	12/01/2017 12:30 AM
Finish Time:	12/01/2017 12:30 AM
Report Date:	12/1/17
Reported By:	Claude Mongrain
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification	REFURBISH/REPLACE
GL Account:	TEMAGM6030W-000

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	MECHANIC	Claude Mongrain	00:00	04:00

Log		
Date	Created By	Description
12/1/17	Claude Mongrain	call low clear well
check wonderware all find problem maybe with dialer		

Work Order Call Back Details Report

576667: call low cl2 tem. south WTP 6028

Asset: 0000277351 ANALYZER CHLORINE 01 RESIDUAL TREATED
 Location: 6028-WTTM-P-PC 6028, Temagami South WTP, Process, Process Controls

Page Time:	12/01/2017 09:45 PM
Arrive time:	12/01/2017 09:45 PM
Leave time:	12/01/2017 10:00 PM
Finish Time:	12/01/2017 10:00 PM
Report Date:	12/3/17
Reported By:	Claude Mongrain
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification:	REFURBISH/REPLACE
GL Account:	TEMAGM6028W-000

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	MECHANIC	Claude Mongrain	00:00	04:00

Log		
Date	Created By	Description
12/3/17	Claude Mongrain	call low cl2
check from wonderware dip for 2 minute and back up high lift off		

Work Order Call Back Details Report

577018: call low cl2 temagami wtp6028

Asset: 0000277351 ANALYZER CHLORINE 01 RESIDUAL TREATED
 Location: 6028-WTTM-P-PC 6028, Temagami South WTP, Process, Process Controls

Page Time:	12/03/2017 10:00 PM
Arrive time:	12/03/2017 10:05 PM
Leave time:	12/03/2017 10:10 PM
Finish Time:	12/03/2017 10:20 PM
Report Date:	12/5/17
Reported By:	Claude Mongrain
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification:	REFURBISH/REPLACE
GL Account:	TEMAGM6028W-000

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	MECHANIC	Claude Mongrain	00:00	04:00

Log		
Date	Created By	Description
12/5/17	Claude Mongrain	call low cl2
check from wonderware all back normal		

Work Order Call Back Details Report

577475: low or high clearwell level

Asset:

Location: 6030-WTTM-P-SR 6030, Temagami North WTP, Process, Storage

Page Time:	12/07/2017 12:15 AM
Arrive time:	12/07/2017 01:30 AM
Leave time:	12/07/2017 02:30 AM
Finish Time:	12/07/2017 02:30 AM
Report Date:	12/7/17
Reported By:	Patrick Dinel
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification:	REFURBISH/REPLACE
GL Account:	TEMAGM6030W-000

Log		
Date	Created By	Description
12/7/17	Patrick Dinel	high or low clear well alarm
respond to High or low clear well alarm checked clear well level for alarm alarm was high level reset alarm checked plant checked set points for pumps off and on		

Work Order Call Back Details Report

577717: High or low clearwell Tem. WTP

Asset: 0000115712 METER LEVEL CLEARWELL 02- LIT02
Location: 6030-WTTM-P-PC 6030, Temagami North WTP, Process, Process Controls

Page Time:	12/07/2017 12:15 AM
Arrive time:	12/07/2017 01:30 AM
Leave time:	12/07/2017 02:30 AM
Finish Time:	12/07/2017 02:30 AM
Report Date:	12/8/17
Reported By:	Patrick Dinel
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification:	REFURBISH/REPLACE
GL Account:	TEMAGM6030W-000

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	OPERATOR	Patrick Dinel	00:00	04:00

Log		
Date	Created By	Description
12/8/17	Patrick Dinel	High or low clear well alarm
respond to High or low clear well alarm check well level found level was high checked set points reset alarm		



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Work Order Call Back Details Report

580036: High Level alarm 6029

Asset:

Location: 6029-WWSP 6029, Temagami North Lagoon Spruce Pumping Station

Page Time:	12/21/2017 11:15 PM
Arrive time:	
Leave time:	12/22/2017 12:30 AM
Finish Time:	12/22/2017 12:30 AM
Report Date:	12/22/17
Reported By:	Bryce Logan
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification	REFURBISH/REPLACE
GL Account:	TEMAGM6029S-000

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	INSTTECH	Bryce Logan	00:00	04:00

Log		
Date	Created By	Description
12/22/17	Bryce Logan	Call for high level
On arrival found everything ok opened hatch and level was good and didn't look like level ever was high. False alarm due to cold weather.		

Work Order Call Back Details Report

580424: High Level Alarm 5997

Asset:
Location: 5997-WLTM 5997, Temagami South Lagoon

Page Time:	12/25/2017 03:45 AM
Arrive time:	12/25/2017 04:30 AM
Leave time:	12/25/2017 06:00 AM
Finish Time:	12/25/2017 06:00 AM
Report Date:	12/27/17
Reported By:	Bryce Logan
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification	REFURBISH/REPLACE
GL Account:	TEMAGM5997S-000

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	INSTTECH	Bryce Logan	00:00	08:00

Log		
Date	Created By	Description
12/27/17	Bryce Logan	Call from temagami shores SPS
Received Call But just static on the line. went to site and found nothing wrong but the pit was full of steam causing a false alarm. This is due to the extreme cold weather		

Work Order Call Back Details Report

580430: High Level Alarm 6029

Asset:
 Location: 6029-WWSP 6029, Temagami North Lagoon Spruce Pumping Station

Page Time:	12/26/2017 04:45 AM
Arrive time:	12/26/2017 05:30 AM
Leave time:	12/26/2017 06:45 AM
Finish Time:	12/26/2017 06:45 AM
Report Date:	12/27/17
Reported By:	Bryce Logan
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification	REFURBISH/REPLACE
GL Account:	TEMAGM6029S-000

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	INSTTECH	Bryce Logan	00:00	08:00

Log		
Date	Created By	Description
12/27/17	Bryce Logan	High Level Alarm
Call for high level on arrival found nothing wrong but miltronics reading is erratic jumping up and down this is due to a poor connection between head and controller or frost build up on head.		