

Committee: Public Works, Environmental Services & Facilities

Date: July 18, 2022

Department: Operations

Topic: 2022 2nd Quarter Operations Report

SECTION 1: PUBLIC WORKS

1.1 Loose and Hardtop Maintenance

- 2022 Gravel Maintenance program complete. 6837 tonnes of gravel applied to approximately 31 km of township gravel roads.
- Hard-top cold patching – Increase in demand due to winter hard freeze and thaws
- New St/John St. surface repair project partnered with Ingredion complete

1.2 Capital Projects

- County Road 2 Engineering 60% progress meeting with Jewell Engineering, the United Counties and Township Staff held on June 30th. Jewell on site July 12th to meet with stakeholders and mark bore hole locations for geotechnical survey.
- Spencerville Drainage – The Spencerville Drainage project started June 4th.
- Johnstown Drainage – Draft ECA has been reviewed by staff and Greer Galloway, still waiting on final ECA from MECP. Project is expected to start in 3 to 4 weeks. A letter to affected residents will be delivered 2 weeks prior to the start of construction.

1.3 Miscellaneous

- Street and parking lot Sweeping complete in the Township
- Roadside Spraying for noxious weeds partnership with Counties complete
- 104 service requests and 27 work orders completed in the quarter
- Hardtop roads line painting complete
- Roadside garbage pick-up ongoing
- Roadside Brush and tree removal
- Three Staff completed the T.J. Mahoney Construction Section
- First pass of roadside mowing complete

1.3 Miscellaneous con't

- 11 entranceway culverts were installed – 2 were custom
- Large double culverts on Lennox Rd. extension replaced
- (12) – 911 signs were installed
- 2021 Datacall submitted
- Staff working on brushing Hands Road allowance, Signage and speed bumps ordered

SECTION 2: Waste Disposal

- 608 vehicles attended the site over the 13 Saturdays in the quarter
- Punch card sales through office: \$760.00
- Punch card sales through Cardinal Library: \$620.00
- Punch Card sales through Burchell's \$4446.00
- Punch Card sales through PayPal: \$125.00
- Total punch card sales for this quarter: \$5951.00
- Free spring leaf and brush pick-up and disposal in May
- Staff have started work developing the new transfer site as time permits

SECTION 3: Environmental Services

3.1 2022 Second Quarter WTP Flows Summery

<u>Cardinal Water Treatment Plant Flows</u>				
Month	Monthly Flow (m ³)	Minimum Daily Flow (m ³)	Maximum Daily Flow (m ³)	Average Daily Flow (m ³)
April	10925	307	548	364
May	14732	290	667	475
June	12771	281	693	426

3.2 2022 Second Quarter WTP Operational Parameters

Summary of Operational Parameters for the Cardinal Water Treatment Plant									
April to June	UV Transmittance	Filter 1A	Filter 1B	Filter 2A	Filter 2B	pH	Pressure	Raw Chlorine	Post Chlorine
Average	52.29	0.03	0.02	0.08	0.04	8.00	69.24	1.65	2.52
Unit	mJ/cm ²	NTU	NTU	NTU	NTU		PSI	mg/L	mg/L
Compliance	40	1	1	1	1	6.5-8.5	>20		>0.20

3.3 2022 Second Quarter WTP Microbial Testing

Microbiological Testing for the Cardinal Water System				
	<u>Number of Samples</u>	<u>Total Coliform</u>	<u><i>E. coli</i></u>	<u>HPC (min-max)</u>
April-June	52	0	0	<2-16
Compliance for TC/EC is zero. HPC guideline is less than 500.				

3.4 2022 Second Quarter Summary Report for the Industrial Park

<u>Microbiological Testing- Industrial Park</u>				
	Number of Samples	Total Coliform	<i>E. coli</i>	HPC (min-max)
April-June	13	0	0	<2-30
Compliance for TC/EC is zero. HPC guideline is less than 500.				

3.4 2022 Second Quarter Summary Report for the Industrial Park con't

Description	Prysmian Chlorine Residual	Greenfield Chlorine Residual	Pressure (PSI)
Quarterly Average	1.16	0.97	70.15
Units	mg/L	mg/L	PSI
Compliance	>0.05	>0.05	>20

3.5: 2022 Second Quarter Report for Windmill Pumping Station

Month	Total Flow (m ³)	Minimum Daily Flow (m ³)	Maximum Daily Flow (m ³)	Average Daily Flow (m ³)
April	43348	0 *	1709	1445
May	54552	1567	2146	1760
June	56409	1558	2138	1880

* Windmill Station offline during spring shutdown at Greenfield Ethanol Plant.

3.6: 2022 Second Quarter Report for Spencerville Lagoons

Month	Total Flow (m ³)	Minimum Daily Flow (m ³)	Maximum Daily Flow (m ³)	Average Daily Flow (m ³)
April	8394	196	462	280
May	6809	153	359	220
June	4823	125	221	161

3.7: 2022 Second Quarter Report for Cardinal WWTP

Month	Total Flow (m ³)	Minimum Daily Flow (m ³)	Maximum Daily Flow (m ³)	Average Daily Flow (m ³)
April	52665	1223	3508	1756
May	34054	905	1496	1099
June	25672	673	1097	856

April to June	BOD (mg/L)	Suspended Solids (mg/L)	Total Phosphorus (mg/L)	Ammonia (mg/L)	<i>E.Coli</i>
Average					
Units	mg/L	mg/L	mg/L	mg/L	CFU
Compliance	25	25	1		
Objective	<15	<15	< 1	<4	<200

Month	BOD Removal	Suspended Solids Removal	Phosphorus Removal	Ammonia Removal
April	92%	93%	93%	98%
May	94%	95%	96%	100%
June	94%	95%	97%	99%



Director of Operations